

RACE Roof Cutter

Operators Instruction Manual



WARNING! This equipment is designed to be used on a flat, level roof only. Serious injury or death may result if this product is misused.

We provide the following instructions for proper use and maintenance of this equipment and rely on you to read, understand, and follow these instructions and share them with any other persons using this equipment. It is up to the owners' responsibility

Keep this manual with the equipment at all times so other users can read and educate themselves before operating.

Operator Preparation

Read Instructions

Reading these instructions completely is the first step to safely operating this equipment. Not understanding these instructions can result in injury or death.

Wear Personal Safety Gear

Operator must wear goggles, hard hat, safety shoes, and gloves as required by OSHA safety orders. A long sleeve shirt, long pants, or other protective clothing, and a face shield is recommended.

Roof Preparation

Inspect Roof Surface

Before raising equipment or allowing personnel to access the roof make sure the roof is strong enough to support the weight of the machine, worker, and all other equipment and personnel working near the machine. Check the roof for any openings, cover per OSHA regulations, and clear the area of all potential dangers that could cause injury to the roof cutter operator and/or others.

Warning Line System

A warning line system in compliance with OSHA regulations must be used when operating the roof cutter.

Hoisting Equipment

Inspect Hoisting Equipment

Before hoisting any equipment and/or materials to the roof, make sure the hoist is in safe operating condition and will be operated by a trained employee. Inspect for frayed cables, bent frames, faulty parts, and other damage. The area around the hoist should be clear of any objects – like power lines – and should be secured and properly counter balanced.

Connecting Roof Cutter to Hoist

Attached hoisting sling to the lifting ring on the roof cutter frame. Only use hooks with a spring loaded catch. DO NOT attach lifting strap or hook to any other part of this machine. Machine weighs approx. 260 lbs.

Operator Controls

Before operating the roof cutter locate and understand all controls.

The depth control rod is located on the right side of the control panel. The depth control is used to adjust the depth of the blade cutting into the roof.

When the handle is pushed down and the depth control rod is dropped onto the groove it is in the idle, raised, non-cutting position.

When the depth control rod is raised and the unit is lowered onto the bearing on the rod the machine is in its lowered, cutting position.

Turning the handle counter-clockwise raises the unit and reduces the cutting depth. Turning the handle clockwise lowers the unit and increases the cutting depth.



Engine Controls

WARNING

Gasoline is highly flammable. Do not smoke or allow open flames or sparks nearby engine gas tank or where gasoline or stored. Do not drop or strike fuel tank. Clean spillage at once and flush with plenty of water.

Before Starting Engine

Read and understand the engine manufacturer's operating and safety instructions before starting the engine. Check oil level and, if needed, fill to manufacturer's specifications. Check fuel tank and, if needed, fill with fresh, clean unleaded gasoline.

Set the depth control rod down on the control panel in the idle position and the blade not in contact with the roof surface.

To Start Engine

- 1 – Turn fuel valve lever to the ON position
- 2 – To start a cold engine, move the choke lever to the CLOSED position
- 3 – Move the throttle level away from the MIN position, about 1/3 of the way towards the MAX position

4 – Turn the engine switch to the ON position

5 – Pull the starter grip on the recoil start lightly until you feel resistance, then pull quickly to start engine

- Do not allow the starter grip to snap back against the engine. Return it gently to prevent damage to the starter.

Allow engine to warm up before beginning to cut.

Machine Operation

To prevent injuries, always wear personal protective equipment, such as eye glasses and/or face shield, and heavy duty steel toe boots.



Cutting

WARNING! To avoid flying stones and excessive blade wear, remove loose gravel from roof surface before cutting.

Position roof cutter where cutting will be started. Make sure the blade guard is in the DOWN position. Use depth control rod to lower blade to the roof surface. Adjust depth to where it's just deep enough to cut through the top layers of roofing felts but not more than half the thickness of the insulation.

WARNING! Do not cut through metal decking or any other decking underneath roofing! This may cause collapse of the roof beneath the operator resulting in serious injury or death from a fall.

Once the blade has been lowered into cutting depth push it along a straight path while keeping a pace that allows you to control the roof cutter and your footing. Cutting a crooked path can damage the blade.

WARNING! Stop moving forward when people are in front of you! To avoid injury from trips or falling, do not operate the roof cutter while walking backwards!

When you reach the end of the cut and need to stop, push down on the handle bar and allow the depth control rod to lock into the idle position. Move saw to the next area where you need to cut and repeat process. Shut off engine when done cutting.

WARNING! Never operate saw with a bent, broken, or otherwise damaged blade. This can cause vibration, loosen, or fly apart causing damage to machine or operator injury!

Jobsite Maintenance

Read, understand, and follow the engine maintenance instructions. Keep the cylinder head clean so that it can properly cool the engine. It is very important to keep the engine clean from dust and debris. Inspect and clean the cylinder head fins and engine housing daily. Failure to keep this area clean could result in engine overheating and engine failure.

Tightening and Replacing Belts

[Insert pictures?]

- 1 – Remove bolt from front of belt guard
- 2 – Remove bolt from back of belt guard and remove
- 3 – Loosen bolts at base of engine
- 4 – Tighten bolt on back frame to move engine rearward
- 5 – Tighten bolt until belt has no more than ¼” of movement
- 6 – Tighten bolts at base of engine
- 7 – Replace belt guard and bolts

To replace belt, follow steps 1-3, loosen bolt on back frame and move engine forward, replace belt, then follow steps 4-7.

Machine Service

RACE Roof Cutter should be serviced and/or repaired by a qualified technician only. Contact RACE for a recommended service tech.

Machine Lubrication

Pillow Bearings – The shaft assembly and axle are pre-lubricated, but require lubrication every 10 hours of operation. Lubricant must be a high-quality multipurpose grease. Use extreme care when pumping grease into bearings. Do not push too hard or the bearing seal can be damaged.

Depth Control Rod – Maintain threaded with a spray lubricant periodically to keep it turning free.

Engine Service

If engine service and/or repair is needed, contact the local engine manufacturer's service center. The engine has its own warranty from the engine manufacturer, not RACE.

Read, understand, and follow the engine maintenance instructions. Change oil per manufacturer's recommendations. Keep the cylinder head clean so that it can properly cool the engine. See Jobsite Maintenance above for more information.

Blade Installation

WARNING! Incorrect blade installation can cause poor cutting and/or vibration that could cause damage to machine or operator injury!

Place saw in idle position by pushing down on the handle bar and allowing the depth control rod to lock into position. Shut off engine and remove spark plug wire to prevent accidental starting. Lift up blade guard to expose blade.

Use a 1" open ended wrench or crescent wrench on the end of the saw shaft opposite the blade. Use an arbor wrench (1.5 Hex closed end) to loosen the arbor nut holding the blade and the 2 x blade retaining discs onto the shaft.

Remove the old blade and retaining discs and clean any debris from the shaft.

Install 1 retaining disc to the side with the relief is against the new blade. Install new blade so lower tooth is facing the front of the saw. Install second retaining disc with relief against the new blade.

Tighten the arbor nut securely so that the blade will not slip on the shaft or come loose.

Remove any tools and lower blade guard before starting engine.