

6280 COMMANDER WALK-BEHIND SCRAPER

OPERATING MANUAL



Read Manual Before Operating Machine

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Features and Specifications



FEATURES

Speed Control Dial - Limits maximum forward speed.

Kickstand - Aids operator in tilting the machine back for easier moving and maneuvering.

Traction Wheels - Self-cleaning industrial-grade wheels that disengage for loading/unloading.

Side Slide Weights with Quick-Adjust Levers - Slides over wheels and applies additional pressure to the scraper head if more traction is needed.

Control Handle Levers - Controls both speed and direction of scraper with simple twist grips.

Lifting Bail Eyebolts - Eases loading/unloading.

Debris-Deflecting Front Weight - Prohibits material and debris from obstructing production.

Quick-Adjust Multi-Position Handle - Folds flat over machine for storage or transport; allows adjustment of handle angle to suit operator or work conditions.

Product Specifications

Width	Length (Handle Folded)	Height	Weight	Speed	RPM	Voltage	HP	Amps (full load)
17.75" (451 mm)	29" (736.6 mm)	46" (1,168 mm) (max. height) 30" (762 mm) (handle folded)	334 lbs (151.5 kg) (machine only) 424 lbs (192.3 kg) (with weights)	10-45 ft/min (USA only) 0-20 m/min	3450	115	1.5	13

Features and Specifications

MACHINE MODEL VARIATIONS

Differences Between Machine Models			
Region	Serial Number	Power / Frequency	Body Panels
Domestic	6280-COM-10XXXX	120 / 60	Silver Vein
	6280-COM-23XXXX	120 / 60	Silver Vein
	6280-COM-12XXXX	120 / 60	Green
International	6280-COM-11XXXX	230 / 50	Silver Vein
	6280-COM-15XXXX	230 / 50	Orange
	6280-COM-20XXXX	110 / 50	Silver Vein
	6280-COM-13XXXX	230 / 50	Silver Vein
	6280-COM-26XXXX	230 / 50	Silver Vein
	6280-COM-28XXXX	100 / 50/60	Silver Vein

Safety

GENERAL RULES FOR SAFE OPERATION

Before use, anyone operating or performing maintenance on this equipment must read and understand this manual, as well as any labels packaged with or attached to the machine and its components. Read the manual carefully to learn equipment applications and limitations, as well as potential hazards associated with this type of equipment. Keep manual near machine at all times. If your manual is lost or damaged, contact National Flooring Equipment (NFE) for a replacement.

Personal

Dress properly and use safety gear.

Do not wear loose clothing; it may be caught in moving parts. Anyone in the work area must wear safety goggles or glasses, hearing protection during extended use, and a dust mask for dusty operations. Hard hats, face shields, safety shoes, etc. should be worn when specified or necessary.

Maintain control; stay alert.

Keep proper footing and balance, and maintain a firm grip. Observe surroundings at all times and use common sense. Do not use when tired, distracted, or under the influence of drugs, alcohol, or any medication that may cause decreased control.

Keep hands away from all moving parts and tooling.

Wear gloves when changing tooling. Remove tooling when machine is not in use and/or lower cutting head to the floor.

Do not force equipment.

Equipment will perform best at the rate for which it was designed. Excessive force only causes operator fatigue, increased wear, and reduced control.

Environment

Avoid use in dangerous environments.

Do not use in rain, damp or wet locations, or in the presence of explosive atmospheres (gaseous fumes, dust, or flammable materials). Remove materials or debris that may be ignited by sparks. Keep work area tidy and well-lit - a cluttered or dark work area may lead to accidents. Extreme heat or cold may affect performance.

Protect others in the work area and be aware of surroundings.

Provide barriers or shields as needed to protect others from debris and machine operation. Children and other bystanders should be kept at a safe distance from the work area to avoid distracting the operator and/or coming into contact with the machine. Operator should be aware of who is around them and their proximity. Support personnel should never stand next to, in front of, or behind the machine while the machine is running. Operator should look behind them before backing up.

Guard against electric shock.

Ensure that machine is connected to a properly grounded outlet. Prevent bodily contact with grounded surfaces, e.g. pipes, radiators, ranges, and refrigerators. When scoring or making cuts, always check the work area for hidden wires or pipes.

Maintenance & Repairs

Begin maintenance work only when the machine is shut down, unplugged, and cooled down.

Use proper cleaning agents.

Ensure that all cleaning rags are fiber-free; do not use any aggressive cleaning products.

Schedule regular maintenance check-ups.

Ensure machine is properly cleaned and serviced. Remove all traces of oil, combustible fuel, or cleaning fluids from the machine and its connections and fittings. Retighten all loose fittings found during maintenance and repair work. Loose or damaged parts should be replaced immediately; use only NFE parts.

Do not weld or flame-cut on the machine during repairs, or make changes to machine without authorization from NFE.

Equipment

Use proper parts and accessories.

Only use NFE-approved or recommended parts and accessories. Using any that are not recommended may be hazardous.

Ensure accessories are properly installed and maintained.

Do not permanently remove a guard or other safety device when installing an accessory or attachment.

Inspect for damaged parts.

Check for misalignment, binding of moving parts, loose fasteners, improper mounting, broken parts, and any other conditions that may affect operation. If abnormal noise or vibration occurs, turn the machine off immediately. Do not use damaged equipment until repaired. Do not use if power switch does not turn machine on and off. For all repairs, insist on only identical NFE replacement parts.

Maintain equipment and labels.

Keep handles dry, clean, and free from oil and grease. Keep cutting edges sharp and clean. Follow instructions for lubricating and changing accessories. Motor and switches should be completely enclosed at all times with no exposed wiring. Inspect cord regularly. Labels carry important information; if unreadable or missing, contact NFE for a free replacement.

Avoid accidental starting; store idle equipment.

When not in use, ensure that the machine is unplugged; do not turn on before plugging in. Store in a dry, secured place. Remove tooling when storing, and keep away from children.



CAUTION! ENSURE PROPER USE OF EXTENSION CORDS. IF AMP DRAW IS HIGHER THAN SHOWN ON TABLE OR CORD IS LONGER THAN 50 FT, SEE AN ELECTRICIAN.

ASSUMPTIONS: 3% ALLOWABLE VOLTAGE DROP, COPPER CONDUCTORS RATED FOR 75°C, 1.25 SAFETY FACTOR, CORD VOLTAGE RATING OF 600VAC, PROPER CORD TYPES (STO, STOW, SOOW).

Amp Draw	Gauge
0-12	14
13-16	12
14-24	10
25-40	8

WALK-BEHIND SCRAPER SAFETY GUIDELINES

Before use, anyone operating this equipment must read and understand these safety instructions.

Scraping

Beware of hidden obtrusions.

Watch out for hidden dangers and protrusions in flooring. Do not use on largely uneven surfaces.

Observe location of electrical supplies and extension cords.

Do not allow cutting heads to come into contact with any electrical supply or extension cord.

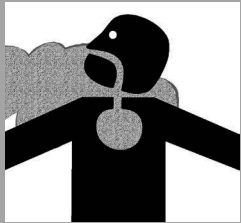

Use correct tooling and accessories.

Provide barriers or shields as needed to protect others from debris. After mounting tooling, check for proper alignment.

Use for correct applications.

Do not force equipment to do heavier duty work than it was made for.

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WARNING: GRINDING/CUTTING/DRILLING OF MASONRY, CONCRETE, METAL AND OTHER MATERIALS CAN GENERATE DUST, MISTS AND FUMES CONTAINING CHEMICALS KNOWN TO CAUSE SERIOUS FATAL INJURY OR ILLNESS, SUCH AS RESPIRATORY DISEASE, CANCER, BIRTH DEFECTS OR OTHER REPRODUCTIVE HARM. IF YOU ARE UNFAMILIAR WITH THE RISKS ASSOCIATED WITH THE PARTICULAR MATERIAL BEING CUT, REVIEW THE MATERIAL SAFETY DATA SHEET AND/OR CONSULT YOU EMPLOYER, THE MATERIAL MANUFACTURER/SUPPLIER, GOVERNMENTAL AGENCIES SUCH AS OSHA AND NIOSH AND OTHER AUTHORITIES ON HAZARDOUS MATERIALS. CALIFORNIA AND SOME OTHER AUTHORITIES, FOR INSTANCE, HAVE PUBLISHED LISTS OF SUBSTANCES KNOWN TO CAUSE CANCER, REPRODUCTIVE TOXICITY, OR OTHER HARMFUL EFFECTS. CONTROL DUST, MIST AND FUMES AT THE SOURCE WHERE POSSIBLE. IN THIS REGARD USE GOOD WORK PRACTICES AND FOLLOW THE RECOMMENDATIONS OF THE MANUFACTURER/SUPPLIER, OSHA/NIOSH, AND OCCUPATIONAL AND TRADE ASSOCIATIONS. WHEN THE HAZARDS FROM INHALATION OF DUST, MISTS AND FUMES CANNOT BE ELIMINATED, THE OPERATOR AND ANY BYSTANDERS SHOULD ALWAYS WEAR A RESPIRATOR APPROVED BY OSHA/MSHA FOR THE MATERIAL BEING CUT.

Safety

HYDRAULIC SAFETY

Maintaining a Safe Work Environment

Establishing a safe work environment in and around your hydraulic equipment is extremely important. The easiest and most effective way to avoid problems is to make sure associates understand their equipment, know how to operate the machines safely, and recognize the dangers if handled carelessly. A few things to be aware of are:

- **Pressure:** Hydraulic fluid under pressure is dangerous and can cause serious injury. Never look for a leak when unit is under pressure. Using your hand could cause serious injury. A few common ways to encounter hydraulic fluid under pressure include:
 - Pinhole: Fluid under pressure can cause serious injury. It can be almost invisible escaping from a pinhole, and it can pierce the skin into the body.



DANGER: DO NOT TOUCH A PRESSURIZED HYDRAULIC HOSE ASSEMBLY WITH ANY PART OF THE BODY. IF FLUID PUNCTURES THE SKIN, EVEN IF NO PAIN IS FELT, A SERIOUS EMERGENCY EXISTS. OBTAIN MEDICAL ASSISTANCE IMMEDIATELY. FAILURE TO DO SO COULD RESULT IN LOSS OF THE INJURED BODY PART OR DEATH.

- Leak: Keep fittings and hoses tight. Only check and service when not under pressure. Leaking hydraulic fluid is hazardous; in addition to making workplace floors slippery and dangerous, it also contaminates the environment. Before cleaning an oil spill, always check EPA, state, and local regulations.
- Burst: Whether due to improper selection or damage, a ruptured hose can cause injury. If it bursts, a worker can be burned, cut, injected, or may slip and fall.
- Coupling Blow-Off: If the assembly is not properly made or installed, the coupling could come off and hit or spray a worker, possibly resulting in serious injury. Never operate machine without guards.
- **Flammability:** When ignited, some hydraulic fluids can cause fires and/or explode. With the exception of those comprised primarily of water, all hydraulic fluid is flammable (including many "fire-resistant" hydraulic fluids) when exposed to the proper conditions. Leaking pressurized hydraulic fluids may develop a mist or fine spray that can flash or explode upon contact with a source of ignition. These explosions can be very severe and could result in serious injury or death. Precautions should be taken to eliminate all ignition sources from contact with escaping fluids, sprays or mists resulting from hydraulic failures. Sources of ignition could be electrical discharges (sparks), open flames, extremely high temperatures, sparks caused by metal-to-metal contact, etc.



CAUTION: NEVER USE YOUR HANDS TO CHECK FOR LEAKS OVER HOSE OR HYDRAULIC CONNECTIONS. USE A PIECE OF CARDBOARD TO LOCATE A PRESSURIZED LEAK. FOR LOW PRESSURE LEAKS (DRIPS), USE A RAG TO CLEAN THE AREA AND DETERMINE WHERE THE LEAK ORIGINATES.

- **Mechanical:** Hydraulic fluid creates movement, which means some equipment may move. Observe surroundings and equipment at all times.
- **Moisture:** Do not use in wet or high moisture conditions.
- **Electrical:** Faulty wiring can be an electrical hazard. A regular preventive maintenance program should always include a wiring check. If applicable, disconnect battery before servicing.
- **Temperature:** Because this machine operates at a relatively low pressure, overheating is not common. If surface of tank becomes too hot to touch by hand (above 130°F or 55°C), shut off machine and allow it to cool.

Hydraulic Fluid

Only use Texaco Rando 46 Hydraulic Oil or Compatible Fluid like ISO32. Non-compatible fluids could cause damage to unit or serious injury.

Components and Assembly

TRANSPORTATION

Attach/Remove Transport Wheels



WARNING: NEVER HAVE TRANSPORT WHEEL ASSEMBLY MOUNTED ON MACHINE OR WHEELS DISENGAGED WHEN GOING UP OR DOWN A LOADING RAMP OR INCLINE. FAILURE TO DO SO COULD CAUSE LOSS OF CONTROL, DAMAGE TO MACHINE OR PROPERTY, OR SERIOUS INJURY.

Transport wheels help eliminate damage to the flooring and make moving the machine easier. To attach transport wheels, complete the following steps:

1. Remove two outside blade cover bolts (Figure 1).
2. To ensure cutting head has enough clearance for front wheel assembly to fit under, tip machine back and block up the front (Figure 1.1).
3. Mount front wheel assembly over blade cover; re-place two outside blade cover bolts (Figure 1.2).
4. Remove blocks.

Note: Do not leave machine in transport mode during transit without being secured.

To remove, reverse these steps.

Lifting Bail

The lifting bails make loading/unloading easier when unable to use a ramp. Location of lifting bails centers the balance of the machine, making it safe to pick up machine.

1. Place rope, hook system, or chain through eyelets located on top of machine.
2. Raise machine with a fork lift or winch.
3. Slowly lower to desired location.

Ramp Unloading

1. Put the wheels in “engage mode” (Figure 2).
2. Position ramp securely to back of vehicle; ensure there is good contact.
3. Position machine at the back of the truck, in line with the ramp.
4. Carefully move machine onto ramp, leaving the cutting head down (in contact with ramp surface). Be cautious; machine is heavy.
5. Slowly back machine down ramp.



CAUTION: REMOVE ALL COUNTER WEIGHTS AND BLADES AND ENSURE WHEELS ARE IN “ENGAGE MODE” (FIGURE E) BEFORE LOADING OR UNLOADING. FAILURE TO DO SO COULD RESULT IN PROPERTY DAMAGE AND/OR PERSONAL INJURY.

WHEEL MODES

Wheels engage and disengage for easier maneuverability. Wheels in the “engage mode” are secured with axle pins (Figure 2), which engage the wheels so the machine can be self-propelled.

When wheels are in the “disengage mode” (Figure 2.1), the machine can be moved freely when not under power.

Disengaging Wheels

1. Lift ring outwards; slide pin up and off.
2. Repeat on second wheel.

Note: Keeping the axle pin facing straight up will make re-engaging easier.



FIG. 1

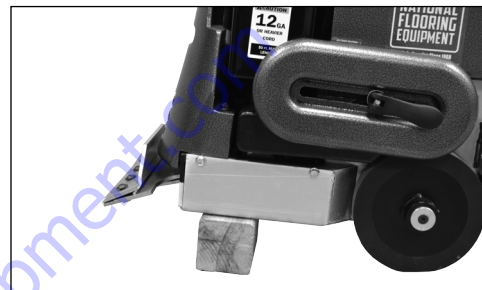


FIG. 1.1



FIG. 1.2

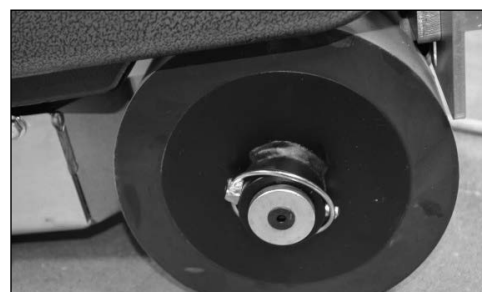


FIG. 2



FIG. 2.1

Components and Assembly

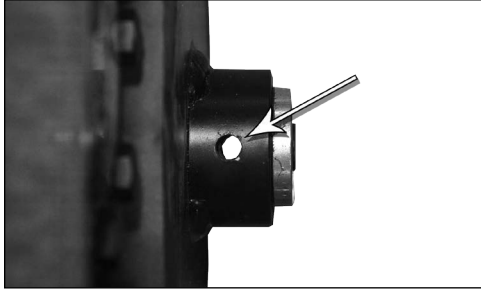


FIG. 3

Re-engaging Wheels

1. Line up wheel hub hole and axle hole (Figure 3).
2. Insert pin and push ring over the hole so that it is parallel to the wheel.
3. Repeat on second wheel.

APPLICATION SETUP

VCT Tile

Never use a blade wider than the size of the tile being removed. If materials being removed still do not come up clean or machine jumps on top of materials, reduce blade size or use a smaller portion of the blade.

Pure Vinyl Rubber Tile

Materials will need to be scored down to 10-12" (25-30.5 cm) for proper removal. Self-scoring blades can be used with some materials. A 10" blade is recommended for this application.

Direct-Glued Carpet

Done with either self-scoring blades or by pre-scoring carpet to match the blade width prior to stripping with a scoring tool. Pre-scored carpet makes machine easier to control and blades will stay sharper longer. Blades up to 16" wide can be used. Normally 12-14" (30.5-35.5 cm) blades are used on direct-glued carpet, secondary-backed, unitary, double glued, vinyl foam, and urethane foam. Latex foams come up easily with 16" blades.

Concrete

When working on concrete slab, a normal blade position is bevel up for best performance, especially when cleaning adhesive. On occasion, bevel down gives better blade life. Test each job for best performance.

Gypcrete and Soft-Poured Flooring

Requires blade bevel down to create a better wearing surface.

ADDING/REMOVING SIDE SLIDE WEIGHTS (OPTIONAL)

- There are two slotted channels located on the back side of each slide weight. To install each side slide weight, position the longer slotted channel below the shorter slotted channel. Next, insert the longer slotted channel over the two bolt heads. Holding each side slide weight in place, install the lever bolt into the threaded hole aligned with the shorter channel slot. Hand-tighten the bolt with the lever raised, securing it to the side of the machine; lower the lever into the channel of the weight to lock.
- To move the side slide weight forward/back based on job application conditions, raise the lever and gently shift the weight to the desired location. After moving each side slide weight to this position, lower the lever into the channel in the weight.
- Use a $\frac{3}{4}$ " socket wrench to tighten the bolt, securing it to the side of the machine. In order to position the side slide weight forward/back, loosen the bolt and shift the weight to the desired location. After moving each side slide weight to this position, re-tighten each bolt firmly.



CAUTION: USE CAUTION WHEN LOOSENING BOLTS. IF BACKED OUT TOO FAR, THE WEIGHT CAN DROP AND CAUSE BODILY HARM.

OPERATING CONTROLS

Speed Controls

- Speed control knob can be adjusted while machine is running.
- Turning speed control knob counterclockwise will increase maximum forward speed (Figure 4).
- Turning speed control knob clockwise will decrease maximum forward speed (Figure 4).

Forward/Reverse

- To move the machine forward, push the handles forward.
- To move the machine backwards, pull the handles backwards.



FIG. 4

START-UP PROCEDURE

Note: Machine must be off before connecting to a power source.

1. Plug machine into outlet.
2. Turn speed control knob to slowest position (Figure 4).
3. Flip ON/OFF switch to the "ON" position.
4. Move machine forward and backwards by moving the handles as described in Operating Controls.

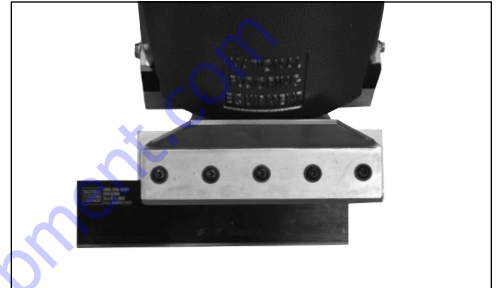


FIG. 5

PREPARING BLADES

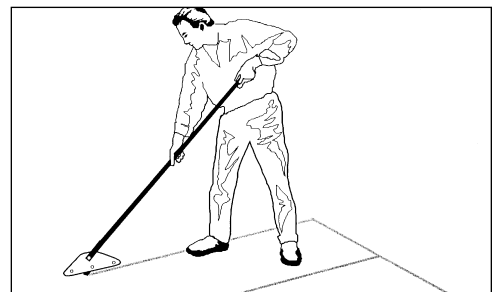
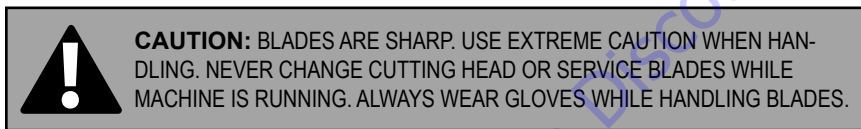


FIG. 6

Setting

Note: This machine is designed to remove soft good materials.

- Proper blade size and placement will affect performance, depending on the material and sub-floor type.
- For difficult materials, use smaller blades.
- Start with a narrow blade, then increase blade size to optimize cutting pass. Narrower blades work easier than wider blades and usually clean the floor better.
- Normally, bevel up is for concrete; bevel down is for wood.
- Keep blades sharp. Dull blades greatly affect the performance of the machine and reduce cutting ability. Sharpen or replace blades as needed.
- Keep work area clean and clear of debris. After removing a portion of material, move it out of the way.
- For wood or wood-like floors, pound down or remove any nails or metal obstructions to avoid blade damage.
- Blades can be offset in the cutting head for easier access to toe kicks or for removal along the wall (Figure 5).
- Sheet vinyl, solid vinyl, rubber tile, urethane, or PVC sheet roofing will need to be scored for best removal results (Figure 6). Score flooring to the width of the blade.
- Self-scoring blades are available in a number of sizes; these blades eliminate the need for pre-scoring material. Depending upon the type of material being removed and the sharpness of the blade and scoring wings, the self-scoring blades may

Operation

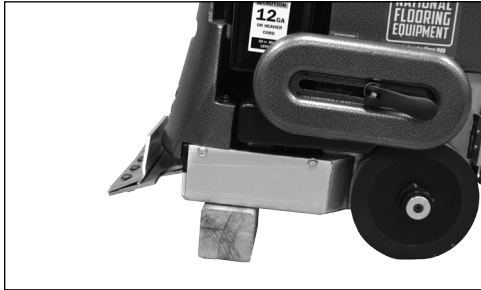


FIG. 7

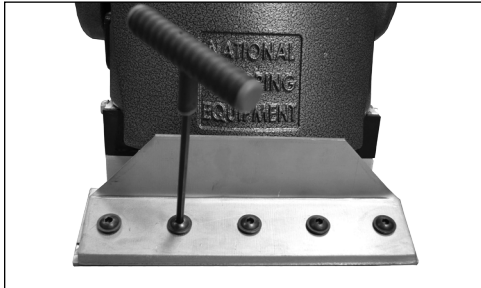


FIG. 7.1

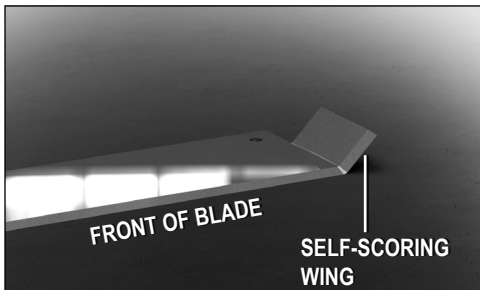


FIG. 8

make it harder to control the machine. Keep scoring wings sharp at all times.

Changing

1. Block up the front of the machine (Figure 7) using a flat piece of wood or something similar.
2. Use the supplied extended "T" wrench or a 6 mm Hex wrench with at least a 3" (76 mm) extension to keep hand safely away from the blade. Loosen the five hex drive bolts (Figure 7.1), it is not necessary to remove them completely.
3. Place blade into the cutting head; slide it all the way back to the bolts. If the blade is wider than the cutting head, center the blade to the head. If the blade is smaller than the cutting head, the blade should be mounted in the center of the cutting head during the first pass. After the first pass is made, the blade can be offset in the head to allow the wheels to keep even contact with the floor and provide easy access to the wall.
4. Tighten the bolts.

Sharpening

Always check for blade sharpness before using. Over time, the used blades will develop a back bevel. While sharpening, blades will not recover entirely until the back bevel is completely leveled out.

Note: Thinner blades are easier to sharpen, but they also break easier.

- Grind blade using a 4" diameter disk with 120 or finer grit. Be careful not to catch disk on the edge or corner of the blade.
- Pass grinder along blade edge starting on one end and continuing in one direction being careful to hold grinder at proper angle for the blade. Grind until sharp.
- While using a high quality fine tooth hand file, follow the same procedure as above.
- Have plenty of sharp blades on each job so that on-the-job blade sharpening is eliminated.
- It is best to sharpen blades on a proper bench or belt grinder in the shop.

Self-Scoring Blade Sharpening (Figure 8): It is important to keep the "wings" on these self-scoring blades sharp. Use a file on the edge; sharpen the flat part of the blade as described above.

Carbide-Tipped Blade Sharpening: To sharpen carbide-tipped blades, a carbide grinding wheel is necessary (e.g. silicon carbide or green wheel).

Daily or On-the-Job Maintenance Checks	Interval			
	Daily	50 hrs	1000 hrs	2000 hrs
Inspect machine and parts for damage	•			
Clean built-up glue and debris from wheels, front weight, and blade holder.	•			
Visually inspect internal parts.		•		
Inspect safety devices and switches (power cord, wheel cleaners, switches).		•		
Inspect and replace isolators.			•	
Inspect and replace cutting head bearing.			•	
Change hydraulic fluid.				• ○

○ - Perform maintenance at least once a year

Note: For additional maintenance and repair information, reference this machine's Service Manual.

Troubleshooting Guide

Problem	Cause	Solution
Machine will not start.	Insufficient power.	Ensure use of properly rated extension cord.
	Loose capacitor leads.	Check capacitor leads to ensure good connection.
	Overload button on motor has been tripped.	Button is located on the bottom of the electric box on motor. If tripped, hold button in until it clicks.
	Faulty ON/OFF switch.	Replace if needed.
Machine will not move under power.	Wheels are not in the "engage mode."	Install wheel pins for "engage mode."
	Broken belt.	Remove wheels and bottom cover to inspect. Replace if needed.
	Broken chain.	Remove wheels and bottom cover to inspect; repair or replace if needed.
	Control handle mechanism failure.	Inspect control mechanism; repair or replace as needed.
Motor is humming, but machine does not run or breakers are blown.	Failed isolators.	Remove wheels and bottom cover to inspect.
	Failed capacitors.	Replace as needed.
	Motor start switch connections are dirty.	Remove fan cover and fan. Clean the motor start switch (set of points) with an emery board or cloth between the points; reassemble.
Machine is leaking hydraulic fluid.	Leak in hose(s).	Tighten; replace if needed.
	Hydraulic fittings are loose.	Tighten; replace if needed.
Motor is heating up.	Motor shaft is binding.	Remove wheels and cover to inspect isolators. Inspect cutting head bearing and eccentric to ensure that they are not binding. If issue continues, contact NFE for additional support.

Note: For additional maintenance and repair information, reference this machine's Service Manual.

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