

# #550 PANTHER<sup>®</sup> STRIPPER

## INSTRUCTION MANUAL



Read Manual Before Operating Machine



***National***  
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# TABLE OF CONTENTS

■ Rules for Safe Operation .....	3-6
A. Grounding .....	5
B. Extension Cords .....	6
■ General Operation .....	7-10
A. Specifications .....	7
B. Assembly .....	7
C. Wheel Adjustment .....	8
D. Handle Adjustment .....	9
E. Machine Operation .....	9
F. Machine Start Up Procedure .....	9
G. User General Information .....	9-10
H. Transportation .....	10
■ Blades .....	11-16
A. Blade Changing .....	11
B. Blade Setting .....	11-12
C. Types of Tearouts .....	13-14
D. Blade Diagram .....	15
E. Blade Chart .....	16
■ Maintenance .....	17
A. Maintaining Equipment .....	17
B. Cleaning .....	17
C. Repairs .....	17
■ Troubleshooting .....	18
■ Complete Parts List .....	19-20
■ Part Numbers and Diagrams .....	21-22
A. External Parts .....	21
B. Internal Parts .....	22
■ Labels .....	23
■ Guarantee .....	24
■ Return Sheet .....	25
■ Blade Order Form .....	

# RULES FOR SAFE OPERATION

READ AND SAVE ALL INSTRUCTIONS FOR FUTURE USE. Before use, be sure everyone operating this equipment reads and understands this manual as well as any labels packaged with or attached to the tool.

1. **KNOW YOUR POWER TOOL:** Read this manual carefully to learn your equipment's applications and limitations as well as potential hazards associated with this type of equipment.

**⚠ WARNING:** When using electric tools, always follow basic safety precautions to reduce the risk of electric shock and personal injury.

2. **GROUND YOUR TOOL:** Unless your tool is double insulated, it should be grounded. *See Grounding.*
3. **AVOID 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.
4. **KEEP WORK AREA CLEAN AND WELL LIT:** Cluttered, dark work areas invite accidents.
5. **DRESS PROPERLY:** Do not wear loose clothing. These may be caught in moving parts. When working outdoors, wear rubber gloves and insulated non-skid footwear. Keep hands and gloves away from moving parts.
6. **USE SAFETY EQUIPMENT:** Everyone in the work area should wear safety goggles or glasses complying with current safety standards. Wear 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.
7. **KEEP BYSTANDERS AWAY:** Children and bystanders should be kept at a safe distance from the work area to avoid distracting the operator and contacting the tool or extension cord. Operator should be aware of who is around them and their proximity.
8. **PROTECT OTHERS IN THE WORK AREA:** Provide barriers or shields as needed, to protect others from debris.
9. **USE PROPER ACCESSORIES:** Using accessories that are not recommended may be hazardous. Be sure accessories are properly installed and maintained. Do not delete a guard or other safety device when installing an accessory or attachment.
10. **CHECK FOR DAMAGED PARTS:** Inspect guards and other parts before use. Check for misalignment, binding of moving parts, improper mounting, broken parts and any other conditions that may affect operation. If abnormal noise or vibration occurs, turn the tool off immediately and have the problem corrected before further use. Do not use a damaged tool. Tag damaged tools "DO NOT USE" until repaired. A guard or other damaged parts should be properly repaired or replaced. For all repairs, insist on only identical National replacement parts.
11. **REMOVE ALL ADJUSTING KEYS AND WRENCHES:** Make a habit of checking that the adjusting keys, wrenches, etc. are removed from the tool before turning it on.
12. **GUARD AGAINST ELECTRIC SHOCK:** Prevent body contact with grounded surfaces such as pipes, radiators, ranges and refrigerators. When making cuts, always check the work area for hidden wires or pipes. Hold your tool by insulated nonmetal grasping surfaces. Use a Ground Fault Circuit Interrupter (GFCI) to reduce shock hazards.
13. **AVOID ACCIDENTAL STARTING:** Be sure machine is turned off before plugging it in. Do not use a machine if the power switch does not turn the tool on and off.

# RULES FOR SAFE OPERATION

14. **DO NOT FORCE** : Machine will perform best at the rate for which it was designed. Excessive force only causes operator fatigue, increased wear and reduced control.
15. **KEEP HANDS AWAY FROM ALL CUTTING EDGES AND MOVING PARTS.**
16. **WEAR GLOVES WHEN CHANGING BLADES.**
17. **DO NOT ABUSE CORD:** Never unplug by yanking the cord from the outlet. Pull plug rather than cord to reduce the risk of damage. Keep the cord away from heat, oil, sharp objects, cutting edges and moving parts.
18. **DO NOT OVERREACH. MAINTAIN CONTROL:** Keep proper footing and balance at all times. Maintain a firm grip.
19. **STAY ALERT:** Watch what you are doing, and use common sense. Do not use a tool when you are tired, distracted or under the influence of drugs, alcohol or any medication causing decreased control.
20. **STARTING MACHINE:** On/off switch must be in off position before connecting to power source.
21. **UNPLUG TOOL:** When it is not in use, unplug tool before changing accessories or performing recommended maintenance.
22. **MAINTAIN TOOLS CAREFULLY:** Keep handles dry, clean and free from oil and grease. Keep cutting edges sharp and clean. Follow instructions for lubricating and changing accessories. Periodically inspect tool cords and extension cords for damage. Have damaged parts repaired or replaced.
23. **STORE IDLE TOOLS:** When not in use, store your tool in a dry, secured place. Keep out of reach of children.
24. **MAINTAIN LABELS AND NAMEPLATES:** These carry important information. If unreadable or missing, contact National for a free replacement.
25. **MACHINE IS HEAVY, DO NOT DROP:** Counter weights are heavy. Take caution when removing or reassembling.

**⚠ WARNING:** Exposure to dust may cause respiratory ailments. Use approved NIOSH or OSHA respirators, safety glasses or face shields, gloves and protective clothing. Provide adequate ventilation to eliminate dust, or to maintain dust level below the Threshold Limit Value for nuisance dust as classified by OSHA.

# RULES FOR SAFE OPERATION

## GROUNDING

**⚠ WARNING:** Improperly connecting the grounding wire can result in the risk of electric shock. Check with a qualified electrician if you are in doubt as to whether the outlet is properly grounded. Do not modify the plug provided with the tool. Never remove the grounding prong from the plug. Do not use the tool if the cord or plug is damaged. If the plug will not fit the outlet, have a proper outlet installed by a qualified electrician.

**⚠ WARNING:** Electrical cords can be hazardous. Misuse can result in fire or death by electrical shock. Read carefully and follow all directions.

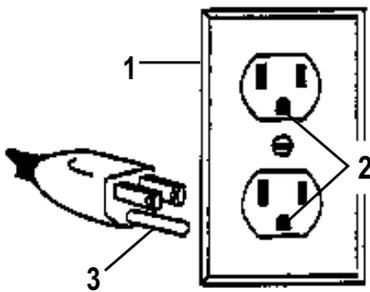


Figure A

1. Cover of grounded outlet box
2. Outlet ground
3. Grounding prong
4. Temporary adapter
5. Screw
6. Green grounding ear

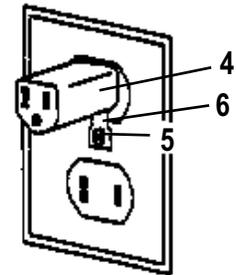


Figure B

### GROUNDING TOOLS: TOOLS WITH THREE PRONG PLUGS

Tools marked "Grounding Required" have a three wire cord and three prong grounding plug. The plug must be connected to a properly grounded outlet. See Figure A. If the tool should electrically malfunction or break down, grounding provides a low resistance path to carry electricity away from the user, reducing the risk of electric shock.

The grounding prong in the plug is connected through the green wire inside the cord to the grounding system in the tool. The green wire in the cord must be the only wire connected to the tool's grounding system and must never be attached to an electrically "live" terminal.

Your tool must be plugged into an appropriate outlet, properly installed and grounded in accordance with all codes and ordinances. The plug and outlet should look like those in Figure A.

Figure B illustrates a temporary adapter available for connecting grounded plugs (Figure A) to two prong outlets. The green rigid ear or lug extending from the adapter must be connected to a permanent ground such as a properly grounded outlet box or receptacle. Simply remove the center screw from the outlet, insert the adapter and reattach the screw through the green grounding ear to the outlet. If in doubt of proper grounding, call a qualified electrician. A temporary adapter should only be used until a properly grounded outlet can be installed by a qualified electrician. The Canadian Electrical Code prohibits the use of temporary adapters.

# RULES FOR SAFE OPERATION

## EXTENSION CORDS

**⚠ WARNING:** Electrical cords can be hazardous. Misuse can result in fire or death by electrical shock. Read carefully and follow all directions.

Grounded tools require a three wire extension cord. Double insulated tools can use either a two or three wire extension cord. As the distance from the supply outlet increases, you must use a heavier gauge extension cord. Using extension cords with inadequately sized wire causes a serious drop in voltage, resulting in loss of power and possible tool damage.

The smaller the gauge number of the wire, the greater the capacity of the cord. For example, a 14 gauge cord can carry a higher current than a 16 gauge cord. When using more than one extension cord to make up the total length, be sure each cord contains at least the minimum wire size required. If you are using one extension cord for more than one tool, add the nameplate amperes and use the sum to determine the required minimum wire size.

### GUIDELINES FOR USING EXTENSION CORDS

- If you are using an extension cord outdoors, make sure it is marked with the suffix “W-A” (“W” in Canada) to indicate that it is acceptable for outdoor use.
- Be sure your extension cord is properly wired and in good electrical condition. Always replace a damaged extension cord or have it repaired by a qualified person before using it.
- Protect your extension cords from sharp objects, excessive heat and damp or wet areas.
- Keep away from water. Do not use if wet. 
- Inspect thoroughly before each use. **DO NOT USE IF DAMAGED.**
- Make sure equipment is OFF before connecting cord outlet.
- FULLY INSERT plug into outlet.
- Do not remove, bend or modify any metal prongs or pins of cord.
- Do not use excessive force to make connections.
- Do not connect a three prong plug to a two-hole cord.
- Avoid overheating. Uncoil cord and do not cover it with any material.
- Do not walk on cord.
- Do not drive, drag or place objects over cord.

**READ AND SAVE ALL INSTRUCTIONS FOR FUTURE REFERENCE.**

# 550 GENERAL OPERATION

## SPECIFICATIONS

SPECIFICATIONS	#550
Length:	24"
Width:	12"
Height:	• 43" w/ handle • 20" w/o handle
Weight (machine only):	119 lbs.
Speed:	Manual
<b>MOTOR INFORMATION</b>	
RPM:	1725
Volts:	115
HP:	1
Amps-Full Load:	11
Continuous Duty	

## ASSEMBLY

### THE PANTHER COMES DISASSEMBLED.

1. Slide switch onto handle legs with switch to the front of the handle (See Figure A).
2. Loosen both handle T-bolts on the handle frame.
3. Insert handle into handle frame (See Figure A) and adjust the handle to the desired height.
4. Retighten T-bolts on the handle frame (See Figure A).
5. Slide switch upward (See Figure B).
6. Tighten switch box T-bolts (See Figure B).

**⚠ CAUTION:** Loosen switch and bolts before trying to remove the handle.

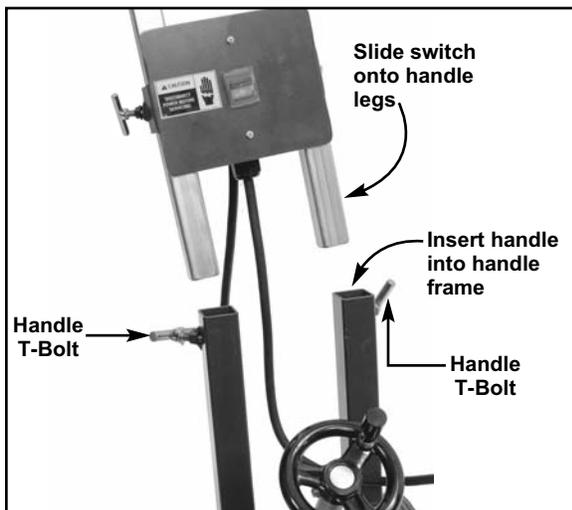


Figure A

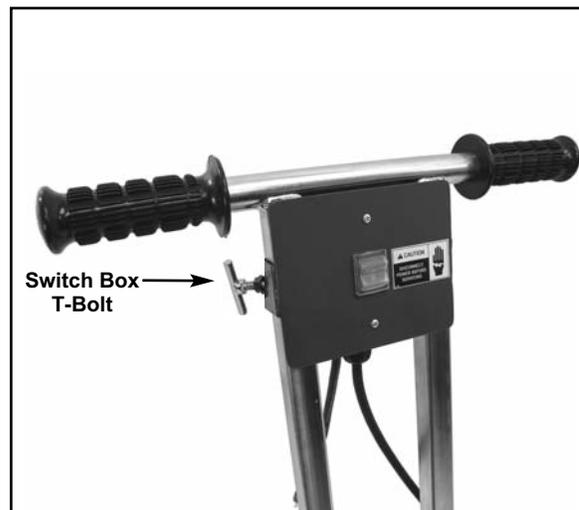


Figure B

# 550 GENERAL OPERATION

**⚠ WARNING:** Do not operate machine around excessive moisture areas, such as abatement work and flooded pool areas. Always use a GFI wall outlet or plug (stock #530 Circuit Guard is recommended). Failure to do so could cause damage in machine or injury to operator.

## WHEEL ADJUSTMENT

Adjusting wheel angle will change the blade angle to the floor. A steep wheel angle is recommended on hard tear-outs such as tile over concrete. A low wheel angle is recommended for vinyl removal over plywood floors. These are estimations. Experiment with the angle to see what works the best for the jobs application.

Rotate handle clockwise to raise wheels, counterclockwise to lower wheels to the desired blade angle (See Figure A).

**NOTE:** Adjustment by trial at the beginning of a job will allow optimum performance.

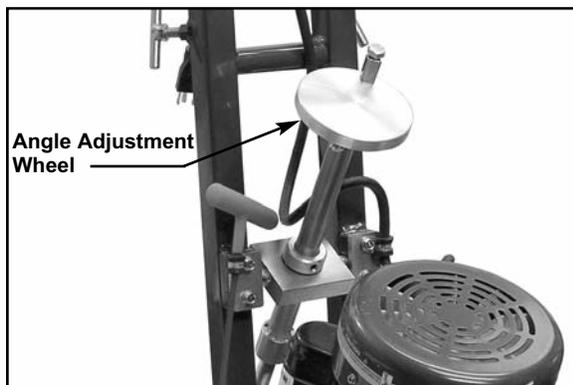


Figure A

# 550 GENERAL OPERATION

## HANDLE ADJUSTMENT

### AFTER THE PROPER WHEEL ADJUSTMENT IS ACHIEVED, ADJUST HANDLE

No matter what the wheel angle is set at, the handle should be adjusted to the "belt-line" of the operator or to what the operator is comfortable with (See Figure A).

- Low setting works best on soft sub floors, plywood, luan, particleboard and wafer board.
- In some cases, a higher setting works best on direct glued down carpet, vinyl or tile on concrete in some cases.

Make certain handle and bolts are secured tightly.

**NOTE:** Adjustment by trial at the beginning of a job will allow optimum performance.



Figure A

## MACHINE OPERATION

A well maintained machine is a productive machine. If not properly maintained, it could be unsafe and could break down. A scheduled maintenance program should insure a long system life and a safe work environment.

## MACHINE START PROCEDURE

### TO RUN MACHINE:

1. Machine **MUST** be off before plugging machine into power source.
2. Plug machine into extension cord and/or outlet.
3. Turn switch to on.

## USER GENERAL INFORMATION

1. Always wear eye protection
2. Keep flammable and fragile objects away from this tool.
3. Always check nuts and bolt to make sure they are tight.
4. Always use the machine with proper voltage specified in the machines nameplate.
5. Do not operate around water or wet conditions without use of GFI on cord (stock #530 Circuit Guard).
6. Use properly grounded cord and receptacle.
7. Unplug from power before servicing or changing blades.
8. Use 12-3 or heavier wire cord, not exceeding 50 feet in length.
9. Do not force machine.
10. Do not alter machine.
11. Keep wheels free from debris.
12. Make sure blade is sharp.

# 550 GENERAL OPERATION

## USER GENERAL INFORMATION (continued)

12. Dropping machine onto cutting head could cause damage to blade holder or blade and cause undue wear on bearing surface.
13. Removable handle and front weight makes machine portable (fits in a trunk of a car).
14. Do Not leave machine unattended while machine is running or plugged in.

## TRANSPORTATION

**Always remove counterweight and blades before loading or unloading.**

Machine breaks down for easy transportation:

- Handle removes
- Handle and/or wheel angle can be lowered
- Remove blade when not in use or transporting machine.
- Blades are sharp, use caution when handling blade.

**⚠ WARNING:** Stay clear of blade when machine is operating.

**⚠ WARNING:** Keep hands and feet out from under machine.

# 550 BLADES

## BLADE CHANGING

**⚠ CAUTION:** Blades are sharp. Handle with care. Failure to do so could cause bodily injury.



- Dull blades greatly reduce cutting ability. Re-sharpen or replace as needed.
- Proper blade size and placement per job type greatly affects performance.
- Disconnect electrical power first.
- Do not lean machine back onto handle.
- Always wear gloves when changing blades to protect fingers and hands.



**Figure A**

1. Place a block under front of machine as shown in diagram, raising blade holder (See Figure A).
  2. Use extended socket wrench that comes with Panther or a socket wrench with at least a 3" extension to keep hand safely away from the sharp edge of the blade.
  3. Loosen two blade cover bolts with extended wrench. It is not necessary to remove bolts.
  4. Place blade into cutting head, sliding all the way back to the bolts. If the blade is wider than the cutting head, center blade to head. If blade is smaller than the cutting head, first pass blade should be mounted in center of the cutting head. After first pass is made, blade can be offset in head to allow wheels to keep even contact with the floor and allow easy access to the wall. Blades of longer width can be mounted in either holes or slots or put in front of blade cover bolts.
  5. Securely tighten bolts.
- Blades are extremely sharp, use caution.
  - A new sharp blade being used on wood or alike sub floors may work better when slightly dulled to avoid digging or gouging.
  - Use National Flooring Equipment replacement blades.

## BLADE SETTING

- Dull blades greatly reduce cutting ability. Re-sharpen or replace as needed.
- Proper blade size and placement, depending on material and sub-floor type, affects performance.
- The harder a job comes up, for best results, use a smaller blade.
- 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. Wider is not always better or faster.
- Normally bevel on blade is up for concrete. Bevel down for wood or soft sub-floors.



# 550 BLADES

## BLADE SETTING (continued)

- Wood or wood like floors: pound down or remove any nails or metal obstruction to avoid blade damage.
- Blades can be offset in cutting head for easier access to toe kicks or removal along the wall (See Figure A).
- Sheet vinyl, solid vinyl, rubber tile, urethane or PVC sheet roofing, will need to be scored for best removal results. Nationals #584 Scoring Tool (See Figure B).
- On direct glued down carpet, the carpet should be scored to blade width for optimum ease of use (See Figure C).
- Self scoring blades are available in a number of sizes. These blades eliminate the need for pre-scoring material. The 5" x 6" blade is recommended. Do not go larger than a 3" x 12" blade. Depending upon the type of material being removed and the sharpness of the blade and scoring wings, the self scoring blades may make it harder to control or push the machine (pre-scoring is a better method).
- **Keep scoring wings sharp at all times.**
- Keep in mind, narrow width blades will make a cleaner floor surface.
- When working over plywood sub-floor, try to work in a 45° direction to the grain of the wood.
- When working over concrete, beware of expansion joints and floor mounted receptacles.
- Proper blade size and placement, depending on material and floor type, greatly affects performance. (The harder a job comes up, the smaller the blade for ease of use.)
- **KEEP BLADES SHARP!**
- Dull blades greatly affect the performance of the machine.
- Keep your work area clean and clear of debris.
- After you have removed a portion of material, clear it out of the way. This will give the machine maximum performance and help to keep the work area safe.

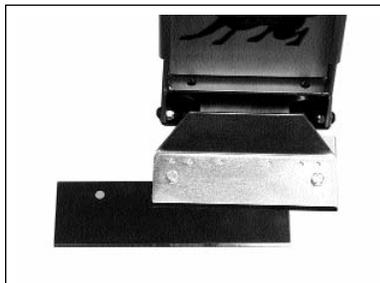


Figure A

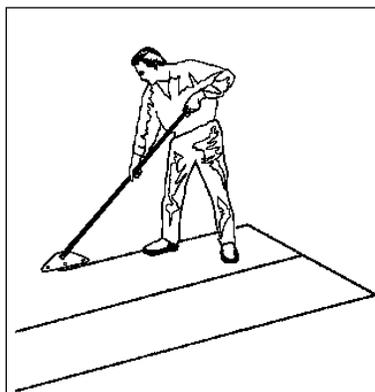


Figure B

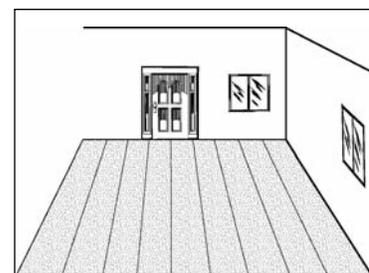


Figure C

# 550 BLADES

## TYPES OF TEAROUTS

### REMOVAL MATERIALS

**⚠ WARNING:** Never remove flooring containing asbestos without fully understanding proper state and federal procedures and guidelines. Wear safety glasses.

- **VCT TILE:** Never use a blade wider than the size of the tile being removed (See Figure A). If goods being removed still do not come up clean or machine jumps on top of goods, reduce blade size to a smaller blade until proper blade size is found or use a smaller portion of the blade. The most common blade sizes when removing tile are a 4" x 6" or a 5" x 6", but a 3" x 10" works in some cases.
- **PURE VINYL RUBBER TILE:** Goods will need to be scored to the size of the blade being used (See Figure B). Self scoring blades can be used with some materials. A 10" blade is recommended for this product, but determine what size blade works best.
- **HARD TO REMOVE SURFACES:** Ripper teeth can be used on hard to remove goods (Hardwood & VCT) (See Figure E).
- **DIRECT GLUED CARPET:** Can be done with either self scoring blades (Figure C) or pre-score carpet to blade width prior to stripping with #584 Scoring Tool. Pre-scored carpet makes machine easier to control and blades stay sharper longer. Blades up to 16" wide can be used. Normally 5" to 10" blades are used on direct glued carpet, secondary backed, unitary, double glued, vinyl foam, urethane foam. Rubber back & latex foams usually come up easily with a 16" blade. If using a self-scoring blade, they must be kept sharp.
- **CERAMIC:** Requires a Ceramic Blade Cover and a ceramic bit (See Figure D). Ceramic over a wood sub-floor requires a low angle so the blade is flat to the floor. Ceramic over hard sub-floor such as concrete, angle can be increased. Experiment with the angle to see which works the best. Clear debris from area as it is removed.



Figure A



Figure B



Figure C



Figure D



Ripper Teeth

Figure E

# 550 BLADES

## TYPES OF TEAROUTS (continued)

### SUBFLOOR SURFACES

- **WOOD:** When working over plywood sub-flooring, try to run machine in a 45° angle to the grain in the wood. Blade in most cases should be bevel down. On solid wood floors, like plank, run 45° to the plank, not cross grain or cross plank. Removing the front counter weight will help on all soft surfaces. Rounding off the corners of the blade will help from digging into the floor.
- **CONCRETE:** When working on a concrete slab, 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. 
- **GIBCRETE AND SOFT Poured FLOORING:** Usually requires blade bevel down to create a better wearing surface, although bevel up may work if front counter weight is removed. 

**⚠ CAUTION:** Beware of expansion joints and floor mounted receptacles or other obstacles in the floor.

### EYE PROTECTION SHOULD BE USED AT ALL TIMES.

- **GLUED HARD WOOD FLOORING:** A 6" blade is recommended for regular adhesive. For proper removal of hardwood flooring (parkay laminated, plank laminated, plank solid) flooring must be scored. This is done by using a circular saw set at a depth of 100% of the thickness of the board, just missing the subfloor surface when on concrete (See Figure A). A chalk line for scoring lines can be used across the floor the width of the blade (See Figure B). A ripping guide attached to the saw can be used to eliminate chalk line marks. Open an area large enough to fit machine or start from a doorway. It is important to keep all debris cleaned up for maximum performance of machine. True Parkay flooring scoring is not necessary. It will come up in small pieces.

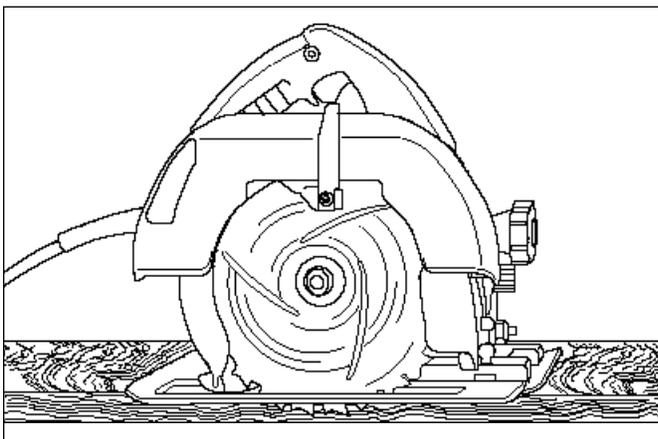


Figure A

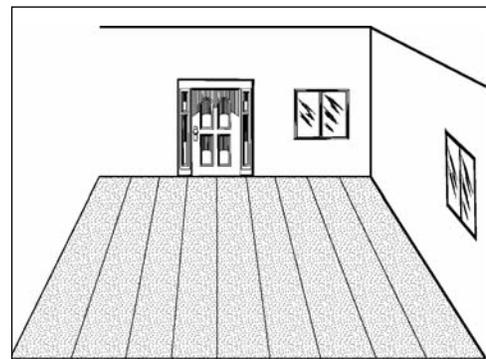
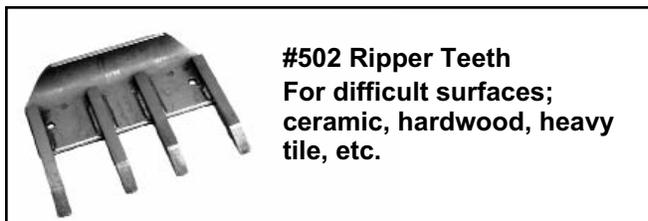
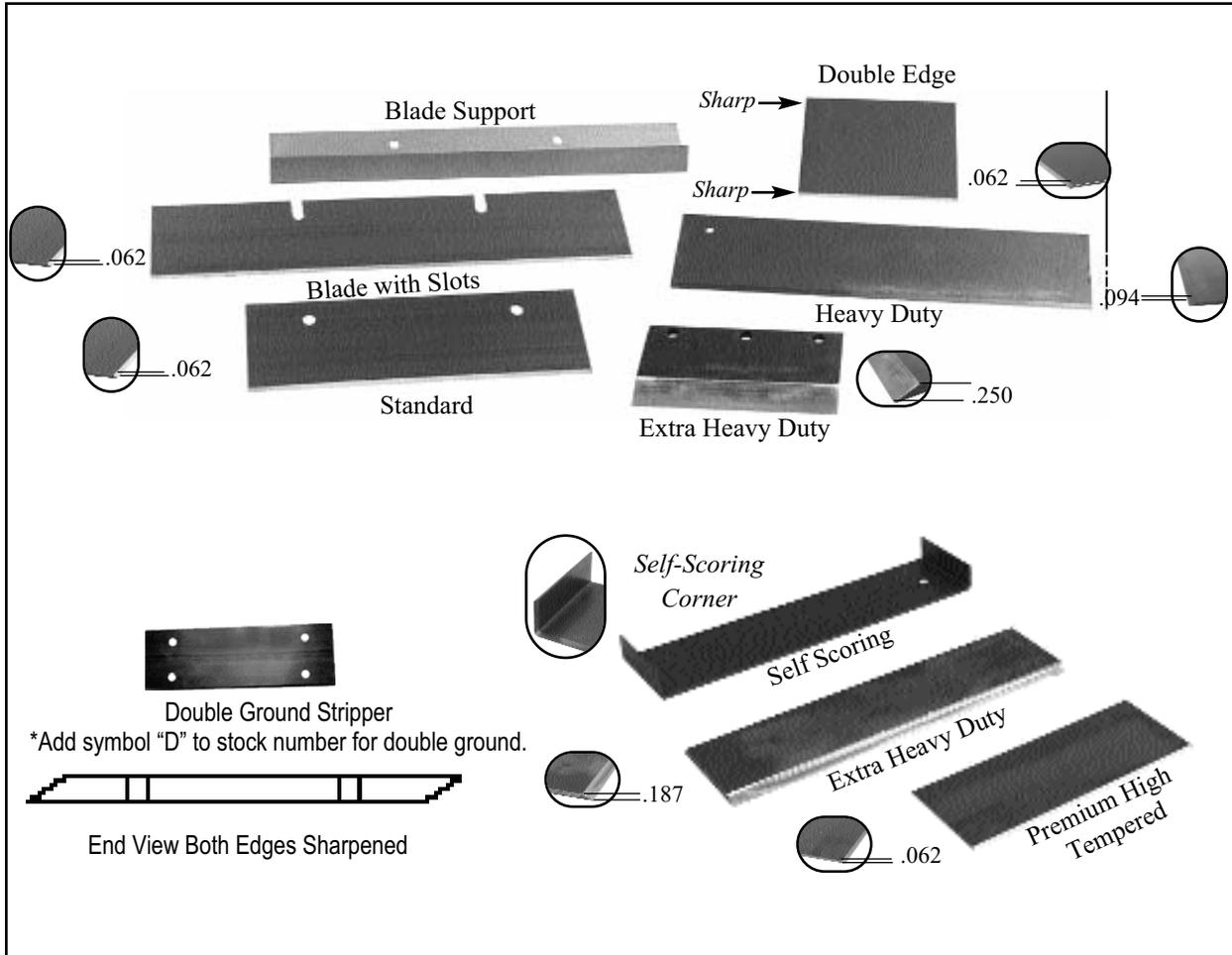


Figure B

# 550 BLADES

## BLADE DIAGRAM

**⚠ CAUTION:** Blades are sharp.



**⚠ WARNING:** Never remove flooring containing asbestos without fully understanding proper state and federal procedures and guidelines for removal of these products. Laws are different from state to state.

# 550 BLADES

Part #	Description	Application	Thickness
#130-S	3" x 10" Blade with slots	Glued down carpet, tile or resilient	.062
#130-D	#130 Blade with both edges sharpened	Carpet, tile or resilient on wood & concrete floors	.062
#131-S	3" x 16" Blade with slots	Glued down rubber carpet, floor accumulation	.062
#135	5" x 16" Blade	Rubber back carpet on wood or concrete floors, excellent for cleanup and longer durability.	.062
#147	4" x 6" Blade	Tile or linoleum on concrete floors	.062
#147-D	#147 Blade with both edges sharpened	Tile or linoleum on concrete floors	.062
#148	5" x 6" Blade	Tile or linoleum on wood floors	.062
#148-D	#148 Blade with both edges sharpened	Tile or linoleum on wood floors	.062
#502	Panther <sup>®</sup> Ripper Teeth	Difficult surfaces: ceramic, hardwood, heavy tile etc.	
#552	Angle Shank	Ceramic	
#6255-BU	4" x 6" Self Scoring Blade - Bevel Up	Works on attached cushion, Unitary or secondary backing, vinyl backing, soft to medium Pvc, linoleum, carpet tiles, soft cork, Enhancer and Uniband hot melts.	.062
#6257-BU	3" x 9" Self Scoring Blade - Bevel Up		.062
#6281	3" x 8" Heavy Duty Blade	A heavy duty blade that still gives a little flex. Made with Nationals proven blade hardening process, these blades will stay sharper longer with better overall performance than any other blade on the market. Works on wood, Vct, Vat, tile, rubber epoxy, thin-set, elastomeric coatings, scraping thin-set, glued ceramic.	.094
#6282	3" x 14" Heavy Duty Blade		.094
#6284	3" x 12" Heavy Duty Blade		.094
#6285	3" x 6" Heavy Duty Blade		.094
#6286	3" x 10" Heavy Duty Blade		.094
#6290	3" x 6" Extra Heavy Duty Blade	Extremely hard, high abrasion alloy for tough tear-up situations. Vct, Vat, wood, tile, thin ceramic, re-scraping thin-set, all carpets, cork, elastomeric coatings, re-scraping rubber and urethane coatings. Holds the edge extremely well.	.187
#6291	3" x 8" Extra Heavy Duty Blade		.187
#6292	3" x 12" Extra Heavy Duty Blade		.187
#6293	3" x 14" Extra Heavy Duty Blade		.187
#7050-200	3" x 6" Premium High Tempered Blade	Ultra high quality spring steel is extra hard for long blade life between sharpening. Works on all glue down carpets, Vct, Vat, rubber tile, cork, re-scraping adhesive, elastomeric coatings. Great for floor accumulations.	.062
#7050-201	3" x 8" Premium High Tempered Blade		.062
#7050-202	3" x 10" Premium High Tempered Blade		.062
#7050-203	3" x 12" Premium High Tempered Blade		.062
#7050-204	3" x 14" Premium High Tempered Blade		.062
#7081	3" x 10" Increased Angle Blade	Mainly used for VCT, but can be used on most other applications. Supplies more of an angle when angle is needed. Prevents machine from jumping off material.	.062
#7083	3" x 8" Increased Angle Blade		.062

# 550 MAINTENANCE

**⚠ WARNING:** To reduce the risk of injury, always unplug equipment from power source before performing any maintenance. Never disassemble the tool or try to do any rewiring on the tool's electrical system. Failure to do so could cause damage to machine or serious injury. Contact National for ALL repairs.

**⚠ WARNING:** To reduce the risk of injury, electric shock and damage to the tool, never immerse your tool in liquid or allow a liquid to flow inside the tool.

## MAINTAINING EQUIPMENT

Keep equipment in good repair by adopting a regular maintenance program. Before use, examine the general condition of equipment. Inspect guards, switches, tool cord set and extension cord for damage. Check for loose screws, misalignment, binding of moving parts, improper mounting, broken parts and any other condition that may affect its safe operation. If abnormal noise or vibration occurs, turn the tool off immediately and have the problem corrected before further use. Do not use a damaged tool. Tag damaged tools "DO NOT USE" until repaired. See Repairs.

- Mechanical inspection
- Cleaning (pulleys, spindles, bearings, housing, etc.)
- Electrical inspection (switch, cord, plugs, etc.)
- Testing to assure proper mechanical and electrical operation
- Check nuts on shock absorbers and bottom plate for tightness
- Check screws on bottom bearing for tightness
- Check all screws and fittings for a tight and secure fit
- Keep a sharp blade in machine for optimum performance
- Remove blade when machine is not in use.

## CLEANING

Clean dust and debris from vents. Keep the Equipment handle clean, dry and free of oil or grease. Use only mild soap and a damp cloth to clean since certain cleaning agents and solvents are harmful to plastics and other insulated parts. Some of these include: gasoline, turpentine, lacquer thinner, paint thinner, chlorinated cleaning solvents, ammonia and household detergents containing ammonia. Never use flammable or combustible solvents around tools.

**Machine is pressure washable. Motor, motor junction box, capacitor box and switch are protected from splashes of water but CAN NOT be subjected to jets of high pressure. Thoroughly dry machine before use. Do not use machine when wet or damp.**



Completely avoid jets of high pressure on motor and switch

## REPAIRS

If your tool is damaged, contact National for a return authorization number and return the entire tool.

- Shipments are not accepted without a return authorization number.
- COD or freight collect shipments will not be accepted.

# 550 TROUBLESHOOTING

## **THERE IS NO POWER**

1. Inspect the electrical cord, switch and/or if the circuit breaker tripped.

## **MOTOR NOISE**

1. Make sure fan guard is not bent.

## **RATTLING**

1. Tighten loose nuts and bolts.

## **MACHINE IS HARD TO HANDLE**

1. Remove the counterweight.
2. Change to a smaller blade.
3. Sharpen blade.

## **BLOWS FUSES OR CIRCUIT BREAKERS**

1. Check and/or change attached power cord. Use a 12 gauge or heavier cord, 50' or less.
2. Move to a different outlet or a better circuit.

## **SHANK INSERTION**

If it is difficult to insert a shank into the holder, remove the paint from the shaft of the shank by using sandpaper, emery cloth or a solvent.

**Note:** Number in parenthesis ( ) is the amount needed on each machine. Parts are sold individually therefore order the number of parts needed.

# 550 COMPLETE PARTS LIST

<u>PART #</u>	<u>DESCRIPTION</u>
63-P30	3/8" SMALL WIRE CLAMP (2)
500-12	PLUG CORD SET ONLY
500-15	HANDLE GRIPS ONLY (EACH)
500-25	WHEEL LEG (2)
500-29	WHEEL (2)
500-30	AXLE
505-1000	BOTTOM PLATE
550-4	ADJUSTMENT T-BAR
550-5	BEARING PLATE
550-5B	7/8" SHAFT COLLAR
550-6	ADJUSTMENT SHAFT
550-7	BASE FRAME
550-8	BRACKET COVER (2)
550-9	SWITCH PLATE
550-11	ADJUSTMENT WHEEL ASSEMBLY
550-12	ADJUSTMENT WHEEL W/ HANDLE
550-12C	SLEEVE FOR HANDLE KNOW
550-12D	ADJUSTMENT WHEEL ONLY NON-ASSEMBLED
550-13	36" MOTOR CORD
550-15	ELECTRICAL BOX ONLY
550-18	ELECTRICAL BOX GASKET ONLY
550-23	CAPACITOR (NOT SHOWN)
550-101	ECCENTRIC
550-400	FRONT COUNTER WEIGHT
550-1001	CUTTING HEAD
551	ANGLE SHANK HOLDER
552	ANGLE SHANK WITH CARBIDE ONLY (NO FITTINGS)
5280-136	BLADE COVER
5280-401	ADDITIONAL FRONT COUNTER WEIGHT
6280-133	SHOCK ABSORBER (4)
6280-207	SWITCH
6280-401B	BLADE WRENCH
62112	SHAFT COLLAR 5/8 W/SET SCREW (2)
62140	UPPER HANDLE WITH GRIPS
62180	MOTOR FAN COVER
62181	MOTOR FAN (NOT SHOWN)
62182	CAPACITOR COVER (OLD STYLE) (NOT SHOWN)
62185	CAPACITOR COVER (NEW STYLE)
62190	ELECTRIC BOX ONLY
62191	ELECTRIC BOX COVER ONLY
71101	7/8" ID BEARING
71131	1 1/4" ID BEARING
72351	1 HP MOTOR
72901	O RINGS #113 (2)
73001	1/4-20 X 1/2 WIZLOCK BOLT (4)
73002	1/4 SPLIT LOCK WASHER (SHANK)
73005	1/4-20 X 1/2 HEXHEAD BOLT (SHANK)
73007	1/2 FLAT WASHER (4)
73008	1/4-20 NYLON LOCK NUT
73010	1/4-20 X 1/4 SET SCREW (3)
73013	1/4-20 X 1 1/4 HEXHEAD BOLT
73102	SPACER .16 X 1"D X .88 ID (2)
73201	3/8-16 X 1 HEXHEAD BOLT (2)

# 550 COMPLETE PARTS LIST

## PARTS (CONTINUED)

<u>PART #</u>	<u>DESCRIPTION</u>
73203	3/8 FLAT WASHER (4)
73204	3/8 SPLIT LOCK WASHER (2)
73205	3/8-16 X 3/4 HEXHEAD SCREW (4)
73209	3/8-16 X 8½ HEXHEAD BOLT (2)
73210	3/8 INTERNAL/ EXTERNAL LOCK WASHER (4)
73211	3/8-16 WIZLOCK NUT (10)
73212	3/8-16 X 3/4 BUTTON HEAD CAP SCREW (2)
73216	3/8-16 X 1¼ HEXHEAD BOLT (2)
73240	3/8-16 T BOLT (2-SWITCH, 2-CUTTING HEAD)
73249	3/8-16 X 2 SOCKET HEAD CAP SCREW
73301	5/16-18 X 1/2 BUTTON HEAD CAP SCREW
73302	5/16 FLAT WASHER
73303	5/16 SPLIT LOCK WASHER
73308	5/16-18 X 3/4 BUTTON HEAD CAP SCREW (4)
73322	5/16-18 NYLON LOCK NUT (4)
73902	SHAFT KEY
73401	1/2 STEEL LOCKNUT
73402	1/2-13 NYLON LOCK NUT (2)
73404	1/2 FLAT WAHSER, SAE (4)
73407	1/2-13 X 1½ HEXHEAD BOLT (2)
73502	1/2" STRAIGHT STRAIN RELIEF .3376 - .5685
73651	9/32 ID X 1 OD X 5/32 WASHER
73902	3/16 X 3/16 X 1½ KEY
74433	10-32 X 1/2 PHILLIPS HEAD MACHINE SCREW
74508	6-32 X 1/2 MACHINE SCREW (2) (NOT SHOWN)
74510	6-32 X 3/8 PHILLIPS HEAD MACHINE SCREW (2)

# 550 COMPLETE PARTS LIST

## LABEL LIST

<u>PART #</u>	<u>DESCRIPTION</u>
L13	DO NOT DROP LABEL
L49	CAUTION CORD LABEL
L51	CAUTION SHARP BLADE LABEL
L95B	DISCONNECT POWER LABEL
L105	SAFE OPERATING TIPS LABEL
L141	MADE IN THE USA LABEL
L173C	STOCK NUMBER LABEL (NOT SHOWN)
L175	NATIONAL LABEL (NOT SHOWN)
L184	MACHINE WASHING LABEL
L239	BLADE SETTING LABEL

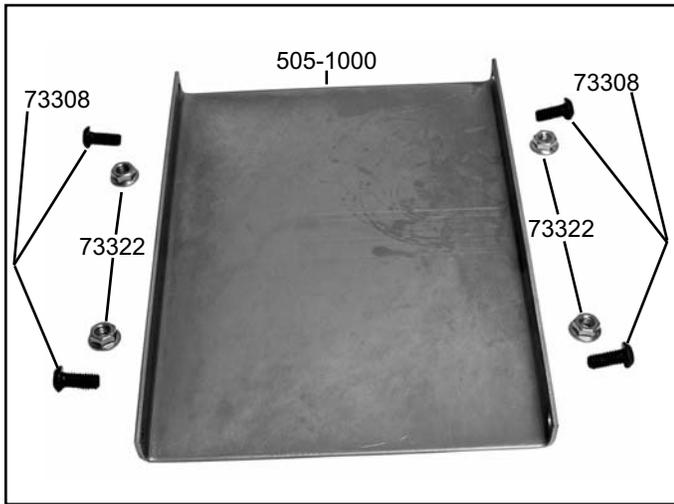
# 550 PART NUMBERS & DIAGRAMS



\*\*See the following pages for individual parts and part numbers

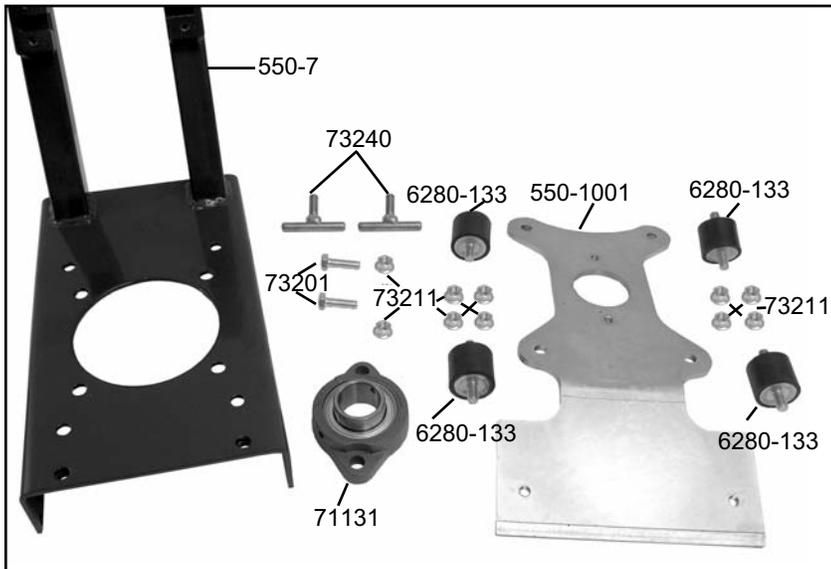
# 550 PART NUMBERS & DIAGRAMS

## BOTTOM BASE PARTS



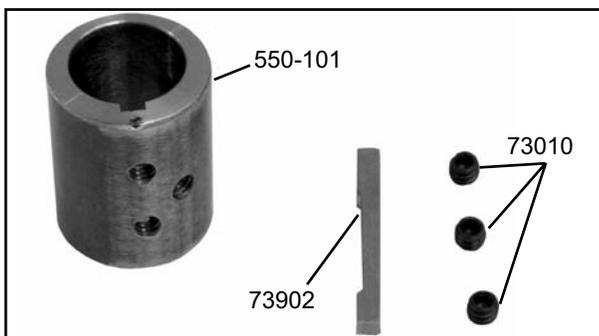
<u>PART #</u>	<u>DESCRIPTION</u>
505-1000	Bottom Plate
73308	5/16-18 x 3/4 Button Head Cap Screw (4)
73322	5/16-18 Nylock Nut (4)

## CUTTING HEAD PARTS



<u>PART #</u>	<u>DESCRIPTION</u>
550-7	Base Frame
550-1001	Cutting Head
6280-133	Shock Absorber (4)
71131	1 1/4" ID Bearing
73201	3/8-16 x 1 Hexhead Bolt (2)
73211	3/8-16 Wizlock Nut (10)
73240	3/8-16 T Bolt (2)

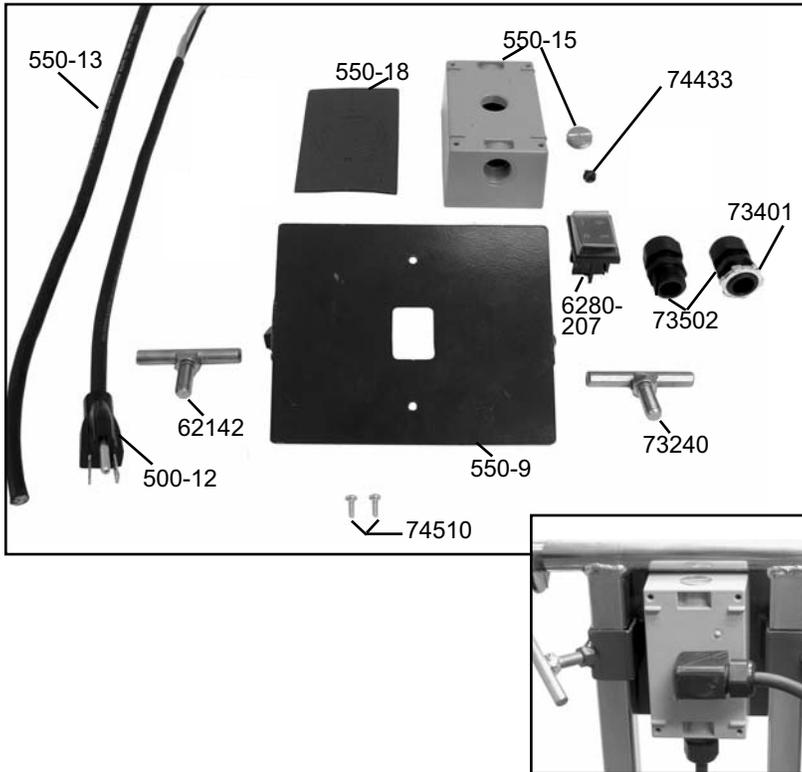
## ECCENTRIC PARTS



<u>PART #</u>	<u>DESCRIPTION</u>
550-101	Eccentric
73010	1/4-20 x 1/4 Set Screw (3)
73902	Shaft Key

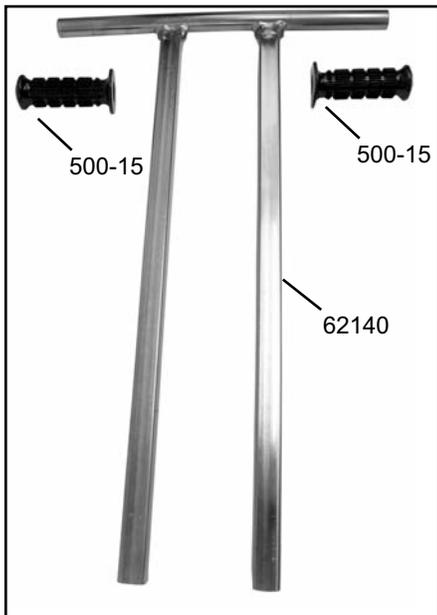
# 550 PART NUMBERS & DIAGRAMS

## SWITCH PARTS



<u>PART #</u>	<u>DESCRIPTION</u>
500-12	Plug Cord Set Only
550-9	Switch Plate
550-13	36" Motor Cord
550-15	Electric Box Only
550-18	Electric Box Gasket Only
6280-207	Switch
73240	3/8-16 T-Bolt (2)
73401	1/2" Steel Lock Nut
74433	10-32 x 1/2 Phillips Head Machine Screw
73502	1/2" Straight Strain Relief .3376 - .5685
74510	6-32 x 3/8 Phillips Head Machine Screw (2)

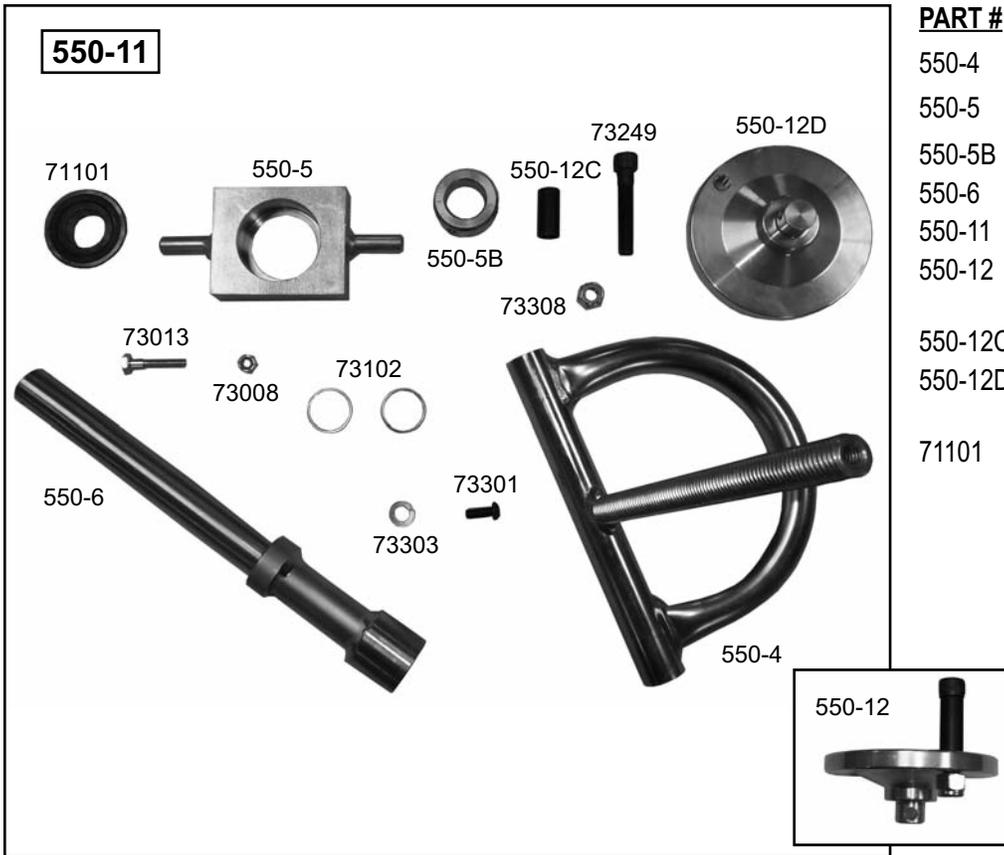
## HANDLE PARTS



<u>PART #</u>	<u>DESCRIPTION</u>
500-15	Handle Grips Only (Each)
62140	Upper Handle With Grips

# 550 PART NUMBERS & DIAGRAMS

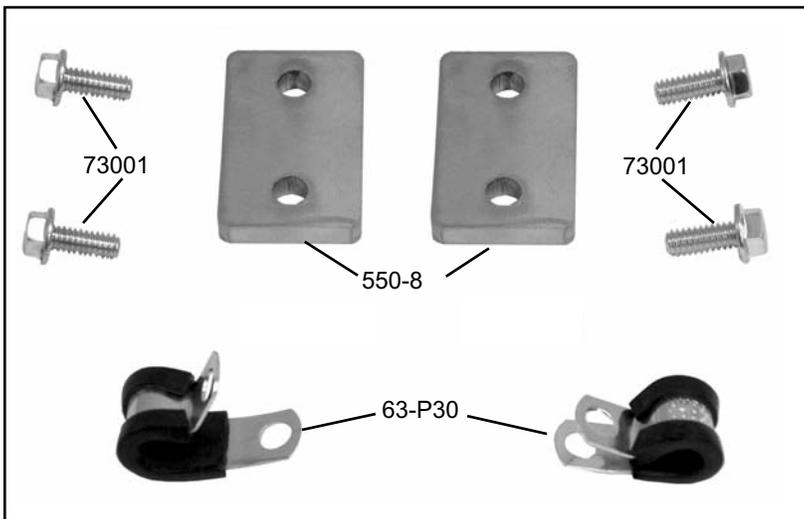
## ADJUSTMENT PARTS



<u>PART #</u>	<u>DESCRIPTION</u>
550-4	Adjustment Bar
550-5	Bearing Plate
550-5B	Shaft Collar 7/8"
550-6	Adjustment Shaft
550-11	Adjustment Wheel Assembly
550-12	Adjustment Wheel w/ Handle Only
550-12C	Sleeve for Handle Knob
550-12D	Adjustment Wheel only (non-assembled)
71101	7/8"ID Bearing

<u>PART #</u>	<u>DESCRIPTION</u>
73008	1/4-20 Nylock Nut
73013	1/4-20 x 1-1/4 Hexhead Bolt
73102	Spacer .16 x 1.0" D x 0.88 ID (2)
73249	3/8-16 x 2 Socket Head Cap Screw
73308	5/16-18 x 3/4 Button Head Cap Screw
73301	5/16-18 x 1/2 Button Head Cap Screw
73303	5/16 Split Lock Washer

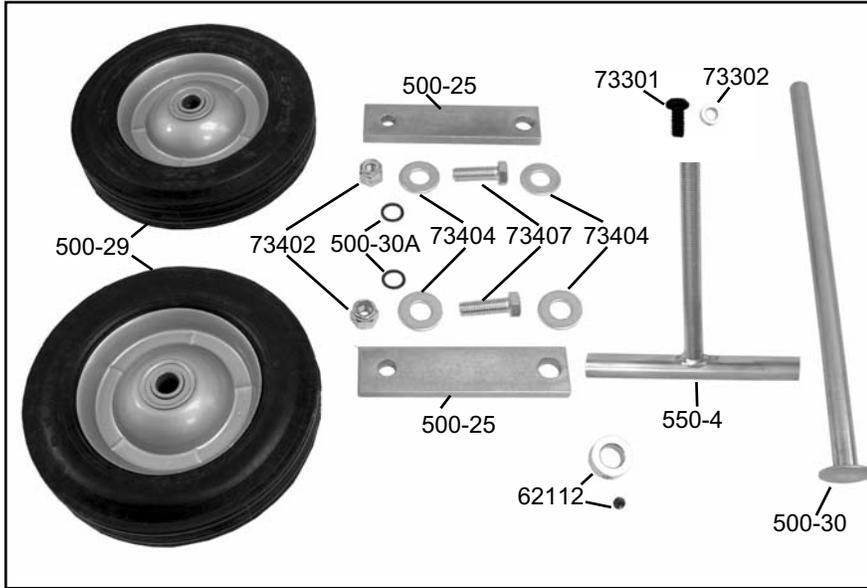
## BEARING PLATE SECURING MOUNTS



<u>PART #</u>	<u>DESCRIPTION</u>
63-P30	3/8" Small Wire Clamp (2)
550-8	Bracket Cover (2)
73001	1/4-20 x 1/2 Wizlock Bolt (4)

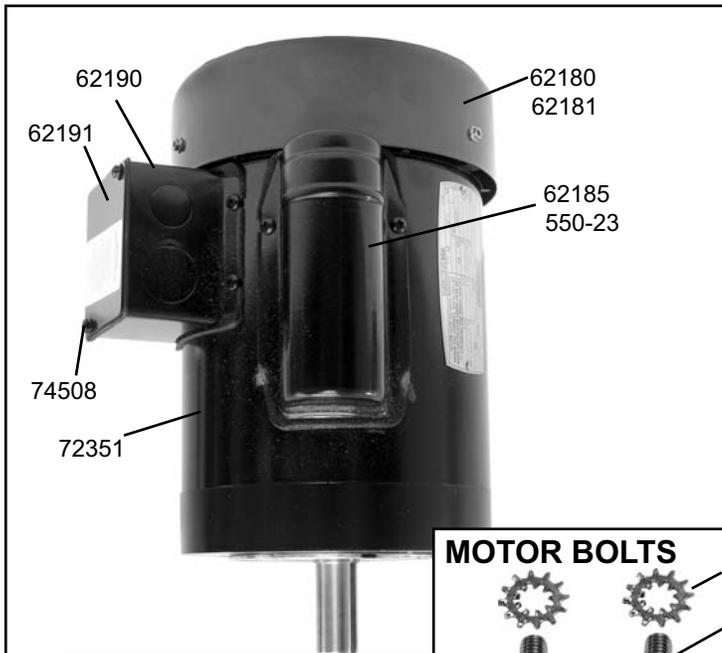
# 550 PART NUMBERS & DIAGRAMS

## WHEEL PARTS



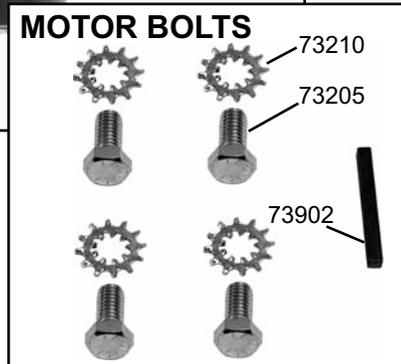
<u>PART #</u>	<u>DESCRIPTION</u>
500-25	Wheel Leg (2)
500-29	Wheel (2)
500-30	Axle
500-30A	O Rings (2)
550-4	Adjustment T- Bar
62112	Shaft Collar 5/8 w/ Set Screw
73301	5/16-18 x 1/2 Button Head Screw
73302	5/16 Washer
73402	1/2-13 Nylock Nut (2)
73404	1/2 Flat Washer (4)
73407	1/2-13 x 1-1/2 Hexhead Bolt (2)

## MOTOR



<u>PART #</u>	<u>DESCRIPTION</u>
550-23	Capacitor (Not Shown)
62180	Motor Fan Cover
62181	Motor Fan (Not Shown)
62182	Capacitor Cover (Old Style) (Not Shown)
62185	Capacitor Cover (New Style)
62190	Electric Box Only
62191	Electric Box Cover Only
72351	1 HP Motor
74508	6-32 x 1 1/2 Machine Screw (2)

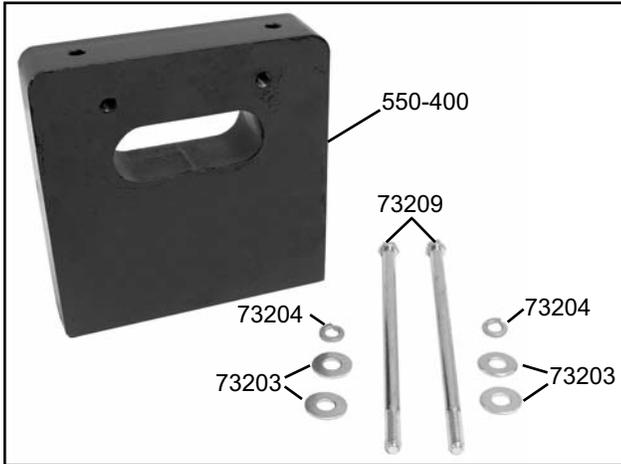
### MOTOR BOLTS



<u>PART #</u>	<u>DESCRIPTION</u>
73205	3/8-16 x 3/4 Hexhead Screw (4)
73210	3/8 Internal/External Lock Washer (4)
73902	3/16 x 3/16 x 1 1/8 Key

# 550 PART NUMBERS & DIAGRAMS

## FRONT WEIGHT



<u>PART #</u>	<u>DESCRIPTION</u>
550-400	Front Counter Weight
73203	3/8 Flat Washer (4)
73204	3/8 Split Lock Washer (2)
73209	3/8-16 x 8-1/2 Hexhead Bolt (2)

## BLADE COVER

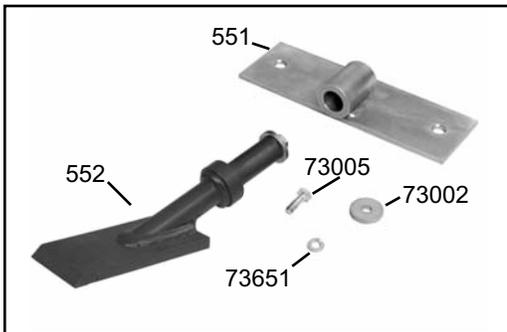


## BLADE WRENCH



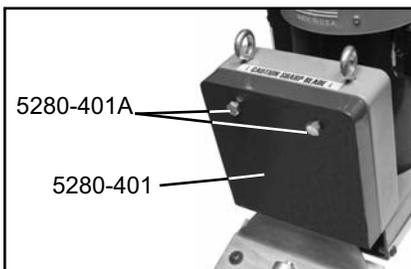
<u>PART #</u>	<u>DESCRIPTION</u>
5280-136	Blade Cover
6280-401B	Blade Wrench
73212	3/8-16 x 3/4 Button Head Cap Screw (2)

## SHANK HOLDER



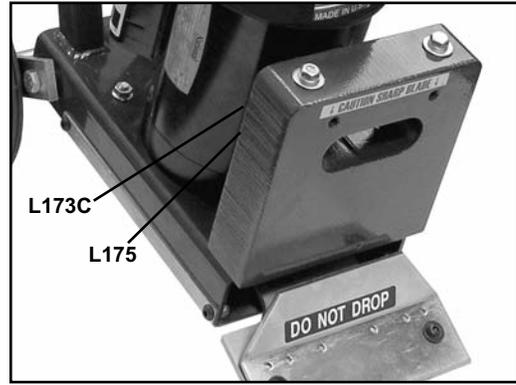
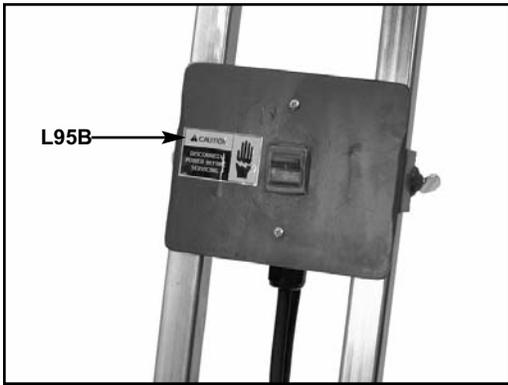
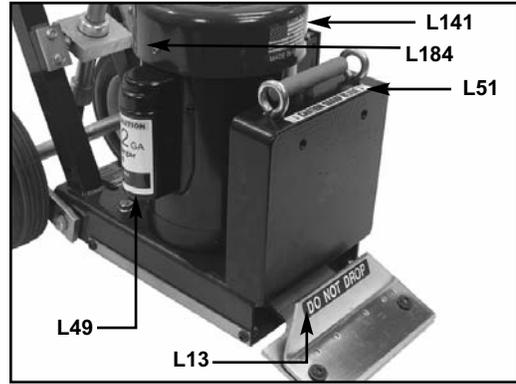
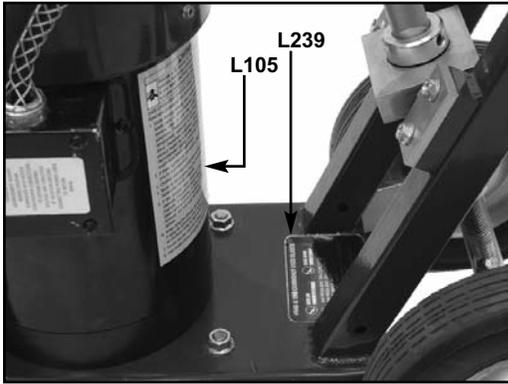
<u>PART #</u>	<u>DESCRIPTION</u>
551	Angle Shank Holder
552	Angle Shank With Carbide Only
73002	1/4 Split Lock Washer
73005	1/4-20 x 1/2 Hexhead Bolt
73651	9/32 ID X 1 OD 5/32 Washer

## OPTIONAL ADD-ON FRONT WEIGHT



<u>PART #</u>	<u>DESCRIPTION</u>
5280-401	Additional Front Counter Weight
73216	3/8-16 x 1 1/4 Hexhead Bolt (2)

# 550 LABELS



<b>PART #</b>	<b>DESCRIPTION</b>
L13	Do Not Drop Label
L49	Caution Cord Label
L51	Caution Sharp Blade Label
L95B	Disconnect Power Label
L105	Safe Operating Tips Label
L141	Made In The USA Label

<b>PART #</b>	<b>DESCRIPTION</b>
L173C	Stock Number Label (Not Shown)
L175	National Label (Not Shown)
L184	Machine Washing Label
L239	Blade Setting Label

# 550 GUARANTEE

National Flooring Equipment, Inc. (National) warrants to the first consumer/purchaser that this National brand product (the #550 Adjustable Handle Panther Stripper), when shipped in its original container, will be free from defective workmanship and materials and agrees that it will, at its option, either repair the defect or replace the defective product or part thereof at no charge to the purchaser for parts or labor for the period(s) set forth below.

This warranty does not apply to any appearance items of the product, to the additional excluded items set forth below, or to any product, the exterior of which has been damaged or defaced, which has been subjected to misuse, abnormal service or handling, or which has been altered or modified in design or construction.

In order to enforce the rights under this limited warranty, the purchaser should follow the steps set forth below and provide proof of purchase to National.

The limited warranty described herein is in addition to whatever implied warranties may be granted to purchasers by law. ALL IMPLIED WARRANTIES INCLUDING THE WARRANTIES OF MERCHANTABILITY AND FITNESS FOR USE ARE LIMITED TO THE PERIODS FROM THE DATE OF PURCHASE AS SET FORTH BELOW. Some states do not allow time limitations on an implied warranty, so the above limitation may not apply to you.

Neither the sales person of the seller, nor any other person, is authorized to make any other warranties other than those described herein, or to extend the duration of any warranties beyond the time period described herein on behalf of National.

The warranties described herein shall be the sole and exclusive warranties granted by National and shall be the sole and exclusive remedy available to the purchaser. Correction of defects in the manner and for the period of time described herein, shall constitute complete fulfillment of all liabilities and responsibilities of National to the purchaser with respect to the product and shall constitute full satisfaction of all claims, whether based on contract, negligence, strict liability or otherwise. In no event shall National be liable, or in any way responsible for any damage or defects in the product which were caused by repairs or attempted repairs performed by anyone other than National. Nor shall National be liable, or in any way responsible, for any incidental or consequential, economics or property damage. Some states do not allow the exclusion of incidental or consequential damages, so the above exclusion may not apply to you.

THIS WARRANTY GIVES YOU SPECIFIC LEGAL RIGHTS. YOU MAY ALSO HAVE OTHER RIGHTS WHICH VARY FROM STATE TO STATE.

## **WARRANTY PERIOD**

The National #550 Adjustable Handle Panther Stripper is guaranteed to be free of manufacturer defective workmanship and in quality of materials for a period of one year.

Items excluded from warranty coverage, unless found and reported defective immediately upon removal from the original shipping container and before being used by the original purchaser.

A freight damage claim must be filed with the carrier by the purchaser, the shipper cannot file the freight claim.

To obtain service contact National Flooring Equipment, Inc. toll free at 800-245-0267 for a repair authorization number. COD freight returns will not be accepted. Freight collect shipments will not be accepted. Warranty repairs must be accompanied by date of purchase receipt and a return/repair authorization number.

# 550 RETURN SHEET

Company Name \_\_\_\_\_

Contact Name \_\_\_\_\_

Telephone Number \_\_\_\_\_

Approximate Usage (hours) \_\_\_\_\_

Problems Encountered \_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

Check One:  Repair

Do you wish to be contacted before repairing  Yes  No

Return

Contact National if a loaner is needed

Return Authorization Number \_\_\_\_\_ Date \_\_\_\_\_

required, contact National

Customer Number \_\_\_\_\_

if known

Purchased From \_\_\_\_\_

if not directly from National

## INTERNAL USE ONLY

Date Received \_\_\_\_\_

Unit Serial Number \_\_\_\_\_

Subject To Warranty \_\_\_\_\_

# 550 BLADE ORDER FORM

Part #	Description	Thickness	Quantity
#130-S	3" x 10" Blade with Slots	.062	
#130-D	3" x 10" Double Edge Blade	.062	
#131-S	3" x 16" Blade with Slots	.062	
#135	5" x 16" Blade	.062	
#147	4" x 6" Blade	.062	
#147-D	4" x 6" Double Edge Blade	.062	
#148	5" x 6" Blade	.062	
#148-D	5" x 6" Double Edge Blade	.062	
#502	Panther® Ripper Teeth		
#6255-BU	4" x 6" Self Scoring Blade	.062	
#6257-BU	3" x 9" Self Scoring Blade	.062	
#6281	3" x 8" Heavy Duty Blade	.094	
#6282	3" x 14" Heavy Duty Blade	.094	
#6284	3" x 12" Heavy Duty Blade	.094	
#6285	3" x 6" Heavy Duty Blade	.094	
#6286	3" x 10" Heavy Duty Blade	.094	
#6290	3" x 6" Extra Heavy Duty Blade	.187	
#6291	3" x 8" Extra Heavy Duty Blade	.187	
#6292	3" x 12" Extra Heavy Duty Blade	.187	
#6293	3" x 14" Extra Heavy Duty Blade	.187	
#7050-200	3" x 6" Premium High Temp Blade	.062	
#7050-201	3" x 8" Premium High Temp Blade	.062	
#7050-202	3" x 10" Premium High Temp Blade	.062	
#7050-203	3" x 12" Premium High Temp Blade	.062	
#7050-204	3" x 14" Premium High Temp Blade	.062	
#7081	3" x 10" Increased Angle Blade	.062	
#7083	3" x 8" Increased Angle Blade	.062	

<b>BILL TO:</b> Attn: _____ Company: _____ Address: _____ _____ Phone: _____
<b>SHIP TO:</b> Attn: _____ Company: _____ Address: _____ _____ Phone: _____

**TO ORDER:**  
 Phone: 800-245-0267 or 763-535-8206  
 Fax: 800-648-7124 or 763-535-8255  
 Online: [www.nationalequipment.com](http://www.nationalequipment.com)

All orders and payment terms to be verified prior to shipping.

## National Flooring Equipment, Inc.

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 WEB SITE: [www.nationalequipment.com](http://www.nationalequipment.com) • E-MAIL: [info@nationalequipment.com](mailto:info@nationalequipment.com)