

# 72 HIGH-PERFORMANCE CARPET PULLER **SERVICE MANUAL**

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Read Manual Before Servicing Machine

403290 Rev A

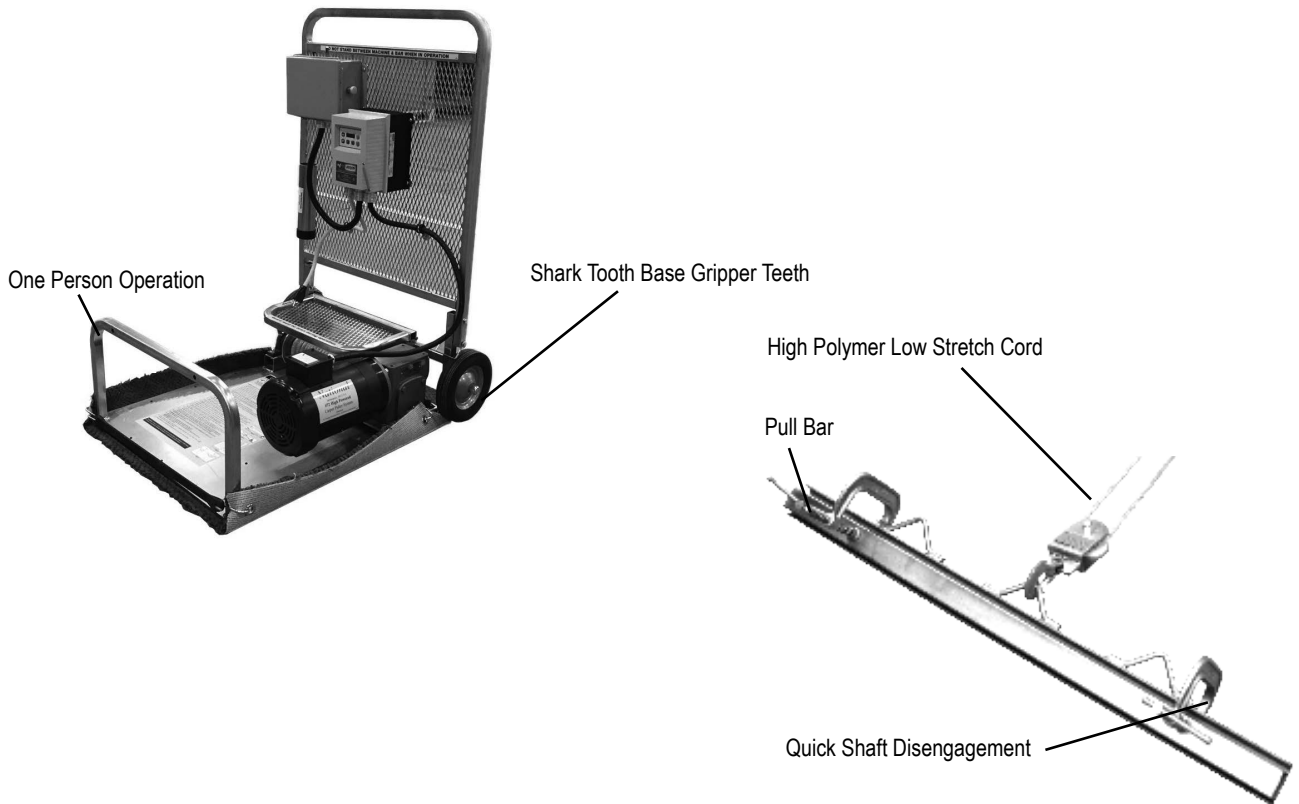


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# Specifications



Product Specifications								
Width	Length	Height	Weight	Speed	RPM	Input Power	HP	Amps (Full Load)
29.5" (75 cm)	34" (86 cm)	42" (107 cm) w/ screen 10" (25 cm) w/ screen folded down	190 lbs.	Up to 30 ft/ min.	1,740	110	1.5	5

## 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

# Safety

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## CARPET PULLER SAFETY GUIDELINES

- Never stand in line of pull in case the rope breaks or the pull bar lets loose.
- Always have remote switches in hand.
- Do not allow yourself or others to become entangled in pulley, rope, winding shaft, or pull bar.
- Do not use any other type of rope that does not meet NFE specifications (less than 6-8% stretch, 13900 pound tensile strength).
- Rope should always pull straight into the machine, never at an angle.
- Never have machine at an angle where the rope winds sideways on the shaft. This could cause the rope to wind improperly on the shaft and damage the rope.
- Ensure hook is securely tied to rope. 
- Know the working load limit (WLL) of the rope being used and ensure it is appropriate for the application.
- Do not bend rope around unprotected, sharp corners. Do not use over rough surfaces without chafe protection.
- Motor should not be run without a fan cover in place.



**WARNING:** DO NOT USE CABLE. DOING SO COULD CAUSE PROPERTY DAMAGE OR BODILY INJURY.



**WARNING:** THE IMPROPER USE OF ROPE IS DANGEROUS, AND COULD RESULT IN BODILY INJURY OR DEATH. ROPE WILL FAIL IF WORN, DAMAGED, ABUSED, OVERLOADED, OR NOT PROPERLY MAINTAINED.



**WARNING:** DO NOT STAND WITHIN RECOIL (SNAPBACK) AREA, UNLESS PROTECTED BY SCREEN. FAILURE TO DO SO COULD CAUSE SERIOUS BODILY INJURY OR DEATH.



**WARNING:** DO NOT USE ANY OTHER TYPE OF ROPE THAT DOES NOT MEET NATIONALS SPECIFICATIONS. OTHER TYPES OF ROPE WHICH MAY HAVE THE PROPER WLL, GENERALLY HAVE A HIGH ELONGATION OR STRETCH FACTOR, MAKING MACHINE POTENTIALLY DANGEROUS FROM ROPE SNAP BACK RESULTING IN BODILY INJURY OR DEATH. ONLY USE NATIONAL #71-P33 REPLACEMENT ROPE FOR SAFE OPERATION. FAILURE TO DO SO COULD CAUSE PROPERTY DAMAGE OR BODILY INJURY. NEVER USE CABLE.



**WARNING:** ENSURE POWER SUPPLY IS DISCONNECTED BEFORE SERVICING MACHINE OR REMOVING ANY COMPONENTS. FAILURE TO DO SO COULD CAUSE ELECTRIC SHOCK.

## PREVENTIVE MAINTENANCE

- Inspect for damage on power cords, rope, switches, and guards. Worn or broken cords and switches could result in electrical shock and should be replaced.
- Pull rope should be replaced when excessive wear (reduction in diameter), frays, or cuts are visible. Use #71-P33 Replacement Rope.
- Oil level in gearbox should be checked once per year. Remove level screw on side of gearbox; fill if needed (Mobil SHC 634).
- Drive shaft and pillow block bearing should be greased for free shaft movement to engage and disengage.
- Examine pulley for free movement of pulley wheel and to ensure pulley frame and hook are free from damage.



FIG. 1

## CLEANING

Properly selected and installed electric motors are capable of operating for long periods with minimal maintenance. Periodically clean dirt accumulations in and around vent openings, preferably by vacuuming to avoid embedding dirt in windows.

Periodically check that all electrical connections are tight.

## ROPE

Replace rope if frays or cuts are noticeable.

- **To remove rope**, lift guard and release drive shaft pin. Pull rope off of drive shaft. Cut knot off at the end of rope to remove.
- **To install rope**, insert rope through hole in drive shaft on the sidewinder guide. Tie a knot on end of rope to secure. Take up slack quickly by hand, then re-engage drive shaft pin. Release guard down into place. Turn switch to forward to wind rope onto drive shaft.

Secure rope hook to end of rope with knot as seen in Figure 1.

## PULL BAR

Internal clamping bar could build up with residue.

1. Remove bar.
2. With gloves on, scrape off residue with a razor scraper or wipe off with a solvent.
3. Inspect clamp for proper condition.
4. Ensure "C" clamps are not bent and are working properly.
5. Re-place bar.

## GRIPPER STRIPS

Use protective cover over gripper strips when the machine is being transported or not in use. Keep gripper pins free of debris.

# Maintenance



FIG. 2

To remove debris, use a wire brush. Be sure to wear gloves and brush over pins in a downward motion (from back of machine to front of machine), removing debris caught in pins (Figure 2). Use a long shank screwdriver to pry out debris that is embedded into the pins.



**CAUTION:** NEVER USE MACHINE WITH DAMAGED OR CLOGGED GRIPPER STRIPS. CLOGGED GRIPPER STRIPS WILL NOT ALLOW MACHINE TO STAY SECURED WHICH COULD CAUSE DAMAGE TO MACHINE, PROPERTY DAMAGE, OR BODILY INJURY

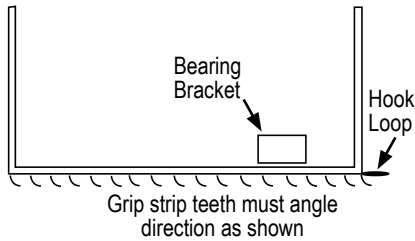


FIG. 3

## REPLACING GRIPPER STRIPS

1. Remove (6) phillips head screws.
2. Remove damaged gripper strip and replace with a new gripper strip.
3. Gripper strip pins are angled. The angle faces towards the front of the machine (Figure 3). Repeat with (4) remaining gripper strips.
4. Re-place screws (Figure 4).

## LUBRICATION

Figure 5 shows the correct locations for the oil fill plug, the oil level plug, and the oil drain plug on the reducer. Plugs may vary in location on the sides of the reducer.

For new reducers, change the oil 120 hours after the reducer starts operating (based on 8 hours per day operation). After the first change, change oil every 2,000 operating hours or every six months.

Use Mobil SHC® 634 gear lubricant or a similar synthetic gear oil. ISO viscosity grade 460. Available from National, stock #1450-40, 1 quart.

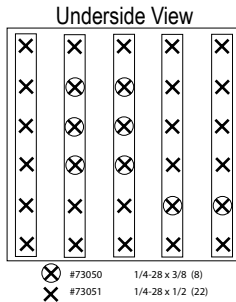


FIG. 4

## ADDING/CHANGING OIL

To add oil:

1. Remove both the fill plug and oil level plug.
2. Place oil in the fill plug hole. Keep adding oil in until it starts to come out of the oil level plug hole.
3. Replace plugs.

To change oil, first drain oil from unit by removing the drain plug. Re-place drain plug and complete steps 1-3 for adding oil.

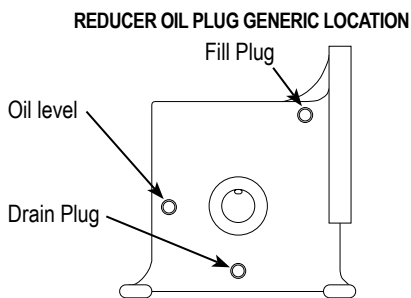


FIG. 5

## CHANGING THE OUTPUT OIL SEAL

1. Remove the rope shaft and gear reducer from the unit.
2. Place some form of support, (2 x 4 etc.), under the gear reducer shaft to keep it from bending. Drive out the gear reducer shaft pin and pick out the old seal.
3. Clean out the area where the old seal was; install the new seal by carefully pressing it in.
4. Re-install drive pin; put loctite around the middle of the pin and carefully press into the shaft.
5. Re-install rope shaft.



# Troubleshooting Guide

Problem	Cause	Solution
Unit fails to operate	Blown fuse or open circuit breaker	Replace fuse or reset circuit breaker
	No power	Check that proper power source and extension cord are being used
	Defective motor	Repair or replace
	Excessive load	Convert to double pull to reduce load
Input motor runs, but speed reducer output shaft doesn't turn	No input pin on shaft	Install pin
	Defective gear(s)	Check and replace if necessary
Intermittent rotation of output shafts	Poor electrical connection	Check connection
	Damaged gear assembly, possibly caused by shock load	Replace gear and, if possible, avoid shock load
Excessive noise	Bearings worn	Replace
	Shaft misaligned	Adjust shaft
	Weight overload which causes worn bearings	Correct load and/or replace bearing
	Insufficient lubrication	Check oil level
	Dented fan cover	Replace fan cover
Oil leak	Fill plug not installed	Install fill plug
	Gasket broken or not sealed	Replace or re-seal gasket
	Damaged or worn seal	Replace seal
	Too much oil	Check oil level
Machine moves while in use	Debris in gripper strips	Clean or replace gripper strips
		Remove debris from floor surface before setting machine in place to pull
Rope winds on shaft incorrectly	Pulling at an angle	Release pressure on rope; using screen, position machine for a straight pull

## CONTROLLER FAULT AND CIRCUIT OVERLOAD

If puller is faulting or circuits are blowing, the machine could be overloaded. This could be due to individual jobsite power sources and/or variances in jobsite floor surfaces. Always monitor load percent and make alterations to machine accordingly. Do not run load over 100%. To display the load percent, press the "Enter" button on the controller twice.

To take load off the machine, follow one or more of the following:

1. Slow the speed of the machine down by holding the down arrow button.
2. If machine is in single pull mode, convert to double pull mode.

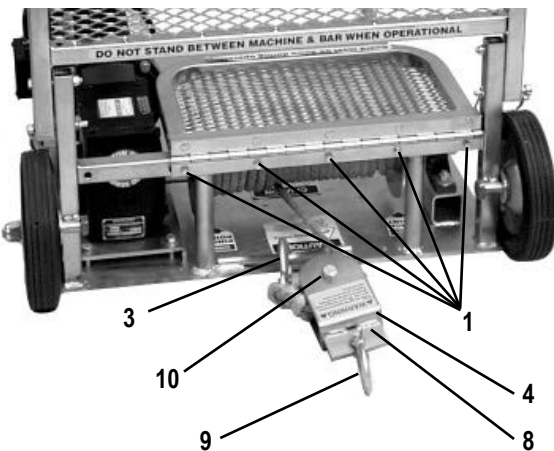
# Parts List and Diagrams

## SCREEN



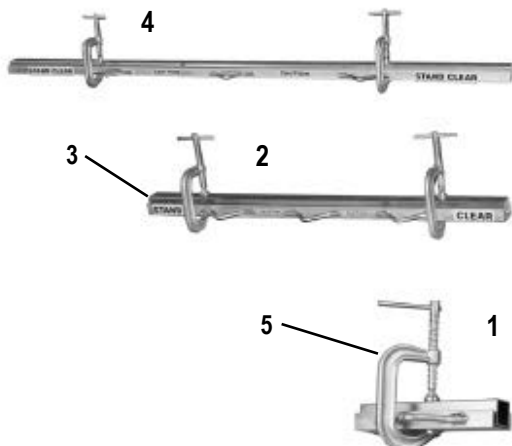
	PART#	DESCRIPTION	QTY
1	71-S2	SCREEN	1
2	73007	1/4 FLAT WASHER	4
3	73014	1/4-20 X 1 1/2 HEXHEAD BOLT	4
4	74406	10-32X3/8 PHILLIPS HEAD MACHINE SCREW	4

## PULLEY



	PART#	DESCRIPTION	QTY
1	73025	1/4 ROPE GUARD RIVET	5
2	71-P10	CASTER WHEEL	1
3	71-P15	ROPE HOOK	1
4	71-P16	PULLEY COMPLETE	1
5	71-P16-1	PULLY WHEEL & BUSHING ONLY	1
6	71-P16-1A	PULLY WHEEL ONLY	1
7	71-P16A	PULLY BUSHING ONLY	1
8	71-P16B	PULLEY BODY ONLY	1
9	71-P16-2	PULLEY HOOK ONLY	1
10	73409	1/2-13 X 2 1/2 HEXHEAD CAP SCREW	1

## PULL BAR

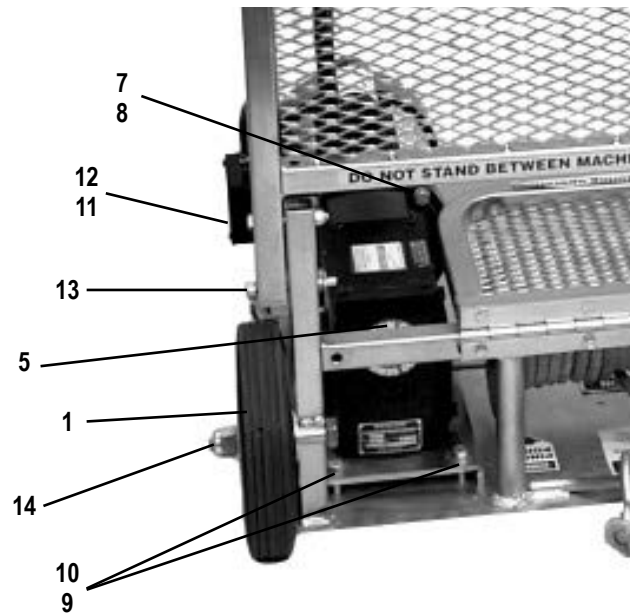


	PART#	DESCRIPTION	QTY
1	71-1	PULL BAR 1'	1
2	71-2	PULL BAR 46"	1
3	71-2A	46" CLAMP BAR INSERT ONLY	1
4	71-3	PULL BAR 7'	1
5	71-C	"C" CLAMP ONLY	1

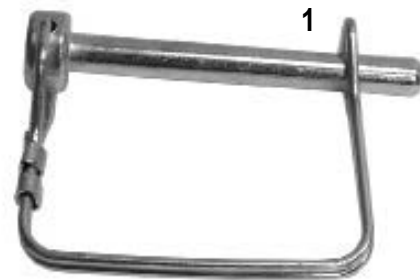
# Parts List and Diagrams

PART#	DESCRIPTION	QTY
1	500-29 WHEEL (EACH)	1
2	1450-13 BOX SEAL (DAYTON), SHAFT END (EXTERNAL)	1
3	1450-27 GEAR BOX SEAL (DAYTON), SHAFT END	1
4	1450-28 DRIVE SHAFT PIN ONLY	1
5	1451 GEAR REDUCER WITH PLATE & PIN	1
6	1451-19 GEAR REDUCER SEAL (NATIONAL)	1
7	73201 3/8-16 X 1 HEXHEAD BOLT	4
8	73204 3/8 LOCK WASHER	4
9	73215 3/8 EXTERNAL LOCK WASHER	4
10	73241 3/8-24 X 1 1/4 HEXHEAD BOLT	4
11	73322 5/16-18 NYLON LOCK NUT	2
12	73327 5/16 X 18 X 2 1/2 HEXHEAD BOLT	2
13	73330 5/16 X 2 PIN	2
14	73525 5/8-11 NYLON LOCK NUT	1

## WHEEL & GEAR REDUCER

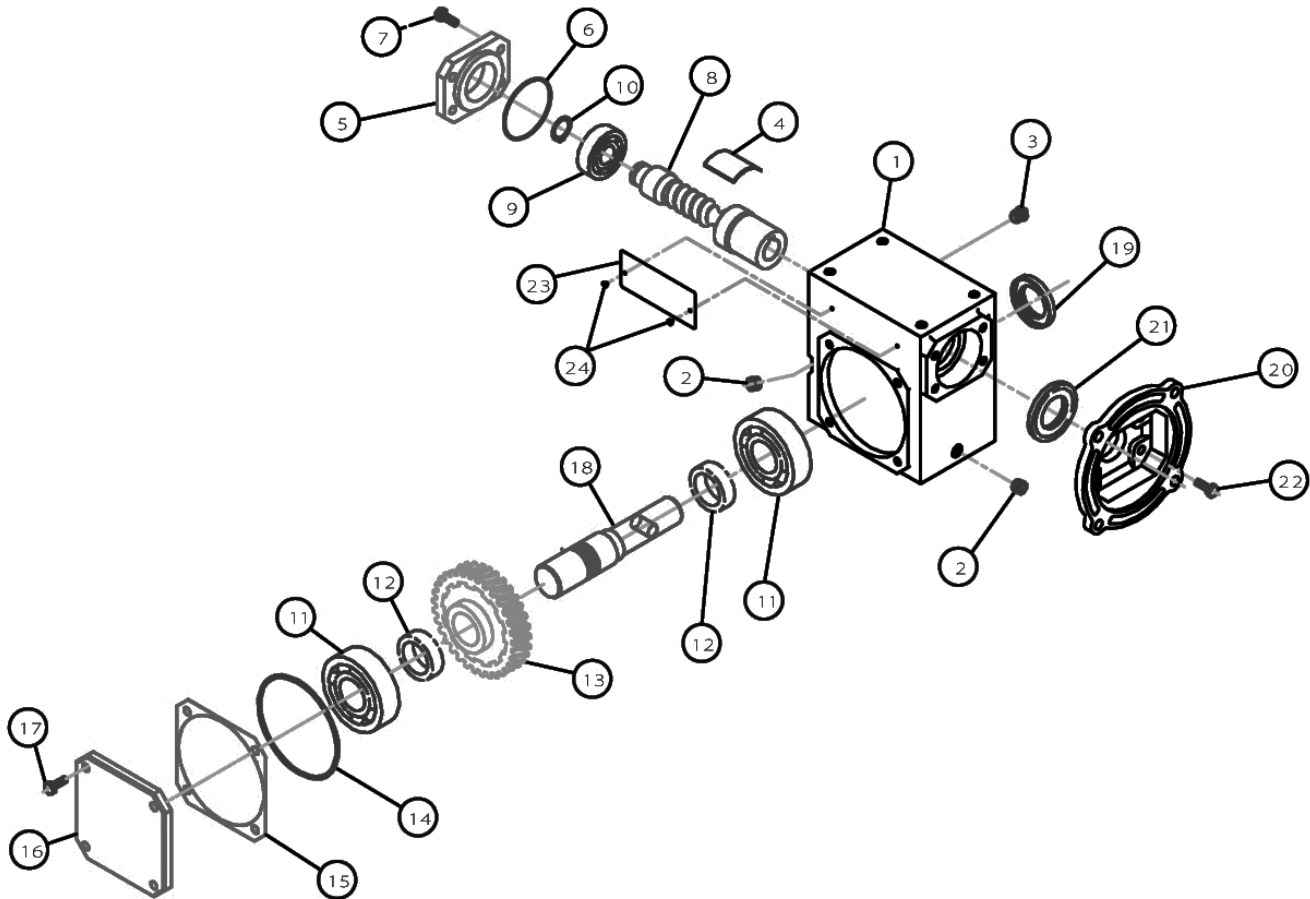


PART#	DESCRIPTION	QTY	PIN
1	73330 5/16 X 2 PIN	2	



# Parts List and Diagrams

## GEAR REDUCER



PART#	DESCRIPTION	QTY	PART#	DESCRIPTION	QTY
1	1450-28	DRIVE SHAFT PIN	13	1451-9	BEARING, BALL INPUT (#204)
2	1450-40	GEAR OIL, 1 QT.	14	1451-10	RING, RETAINER - EXTERNAL
3	1450-50	SPACER PLATE FOR GEAR	15	1451-11	BEARING, OUTPUT TAPPED ROLLER
4	1451	GEAR REDUCER W/PLATE & PIN	16	1451-12	SPACER, SOLID OUTPUT, (2.06)
5	1451-1	GEAR HOUSING	17	1451-13	GEAR, SOLID OUTPUT, (2.06)
6	1451-2	PLUG, PIPE HEX SOCKET	18	1451-14	O-RING, AS568A-043
7	1451-3	PLUG, POPPET VENT .25-18 NPT	19	1451-15	SHIM, OUTPUT
8	1451-4	PLATE, OIL SPLASH GUARD	20	1451-19	SEAL, OIL OUTPUT
9	1451-5	COVER, INPUT BLIND	21	1451-20	FLANGE, QUILL (56C/140TC)
10	1451-6	O-RING, AS568A-031	22	1451-21	SEAL, OIL, INPUT FLANGE
11	1451-7	SCREW, HEX HEAD CAP	23	1451-30	SOLID OUTPUT ASSEMBLY REPLACEMENT
12	1451-8	SHAFT, INPUT QUILL (2.06 C.D.)			

# Parts List and Diagrams

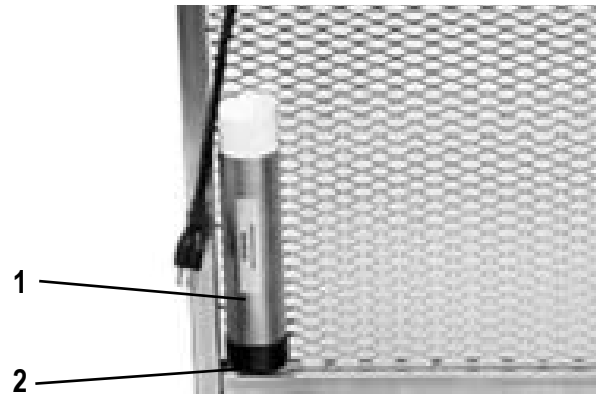
	<b>PART#</b>	<b>DESCRIPTION</b>	<b>QTY</b>
1	402265	BOX, SWITCH, WIRED	1
2	402284	CONTROLLER, BOX, WIRED	1

## CONTROLLER PARTS



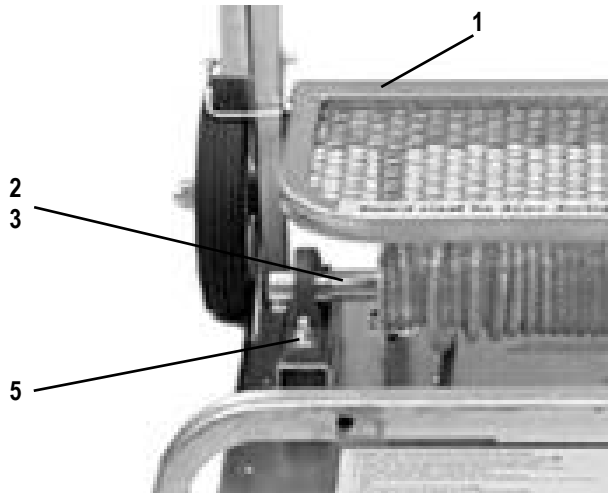
	<b>PART#</b>	<b>DESCRIPTION</b>	<b>QTY</b>
1	70602	INSTRUCTION TUBE	1
2	70603	INSTRUCTION TUBE CAP	1

## INSTRUCTION TUBE



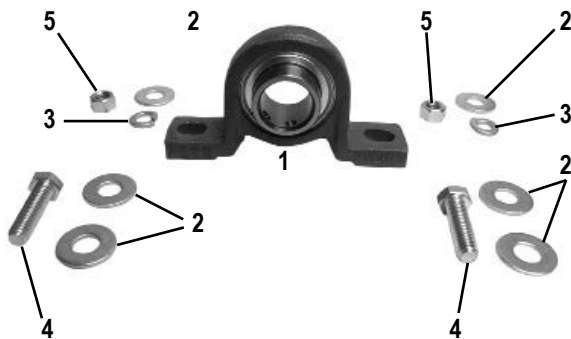
# Parts List and Diagrams

## ROPE & DRIVE SHAFT



	PART#	DESCRIPTION	QTY
1	71-20	ROPE GUARD	1
2	71-P17	DRIVE SHAFT	1
3	71112	PILLOW BLOCK BEARING	1
4	71-P33	50 FT. ROPE	1
5	73204	3/8 INT/EXT LOCK WASHER	2

## PILLOW BLOCK BEARING PARTS



	PART#	DESCRIPTION	QTY
1	71112	1" ID BEARING	1
2	73203	3/8 FLAT WASHER	6
3	73204	3/8 SPLIT LOCK WASHER	4
4	73206	3/8-16 X 1 1/4 HEXHEAD BOLT	2
5	73207	3/8 NYLON LOCK NUT	2

## PILLOW BLOCK BEARING PARTS

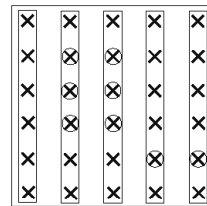
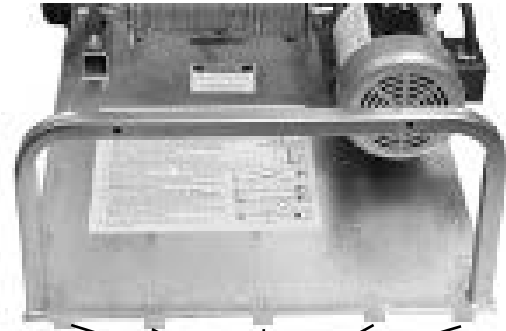


	PART#	DESCRIPTION	QTY
1	72-21	MOTOR SPACER	1
2	72361-72	1.5 HP MOTOR	1

# Parts List and Diagrams

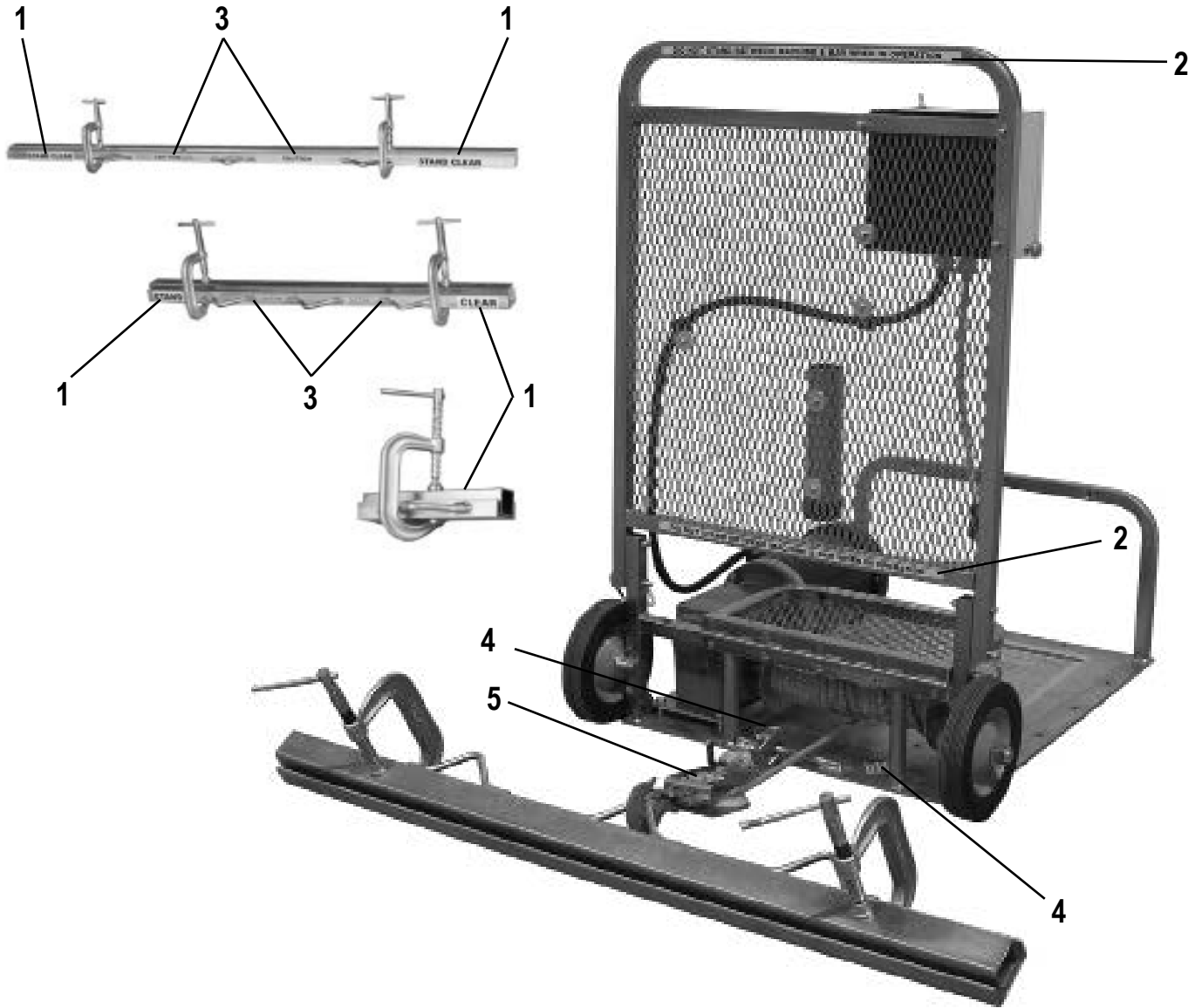
PART#	DESCRIPTION	QTY
1 71-P8	REPLACEMENT GRIPPER STRIP (5 STRIPS PER BASE)	1
2 71-P8S	GRIPPER STRIP SPACER	5
3 71-P32	PROTECTIVE GRIP STRIP COVER & STRAPS	1
4 73051	1/4-28 X 1/2	22
5 73050	1/4-28 X 3/8	8

## GRIPPER STRIP



1  
Underside View

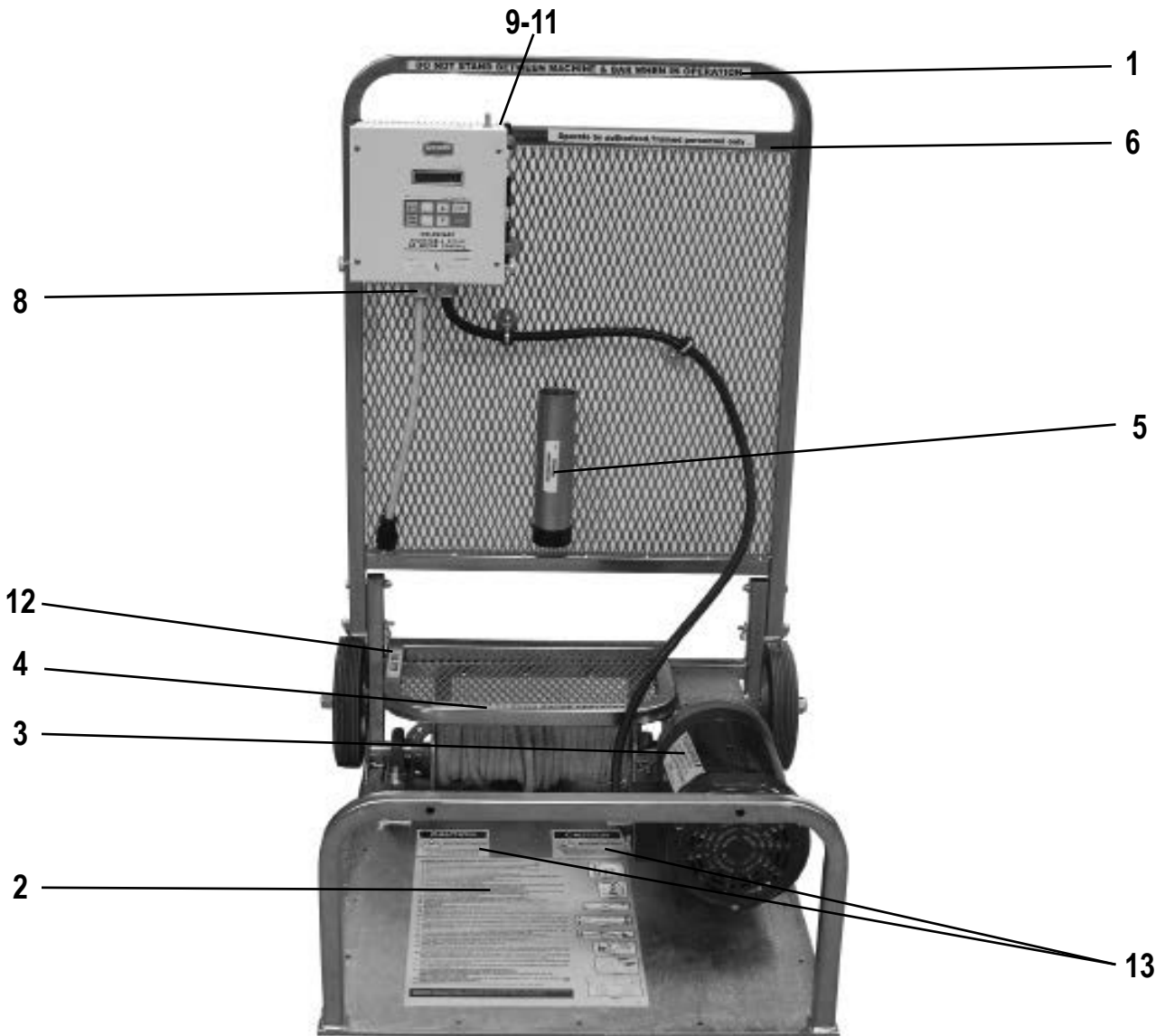
# Parts List and Diagrams



PART#	DESCRIPTION	QTY	PART#	DESCRIPTION	QTY		
1	L08	STAND CLEAR LABEL (PER BAR)	2	4	L106	PINCH POINT LABEL	3
2	L26	DO NOT STAND BETWEEN	3	5	L1000	PULLEY WARNING LABEL	1
3	L66	CAUTION LABEL (PER BAR)	2				



# Parts List and Diagrams



PART#	DESCRIPTION	QTY	PART#	DESCRIPTION	QTY		
1	L26	DO NOT STAND BETWEEN	3	8	L95J	110 VOLT LABEL (ON CONTROL BOX)	1
2	L27	OPERATING INSTRUCTIONS LABEL	1	9	L110B	OFF LABEL	1
3	L32A	STOCK #72 LABEL	1	10	L110C	IN LABEL	1
4	L33A	GUARD MUST BE DOWN LABEL	1	11	L110D	OUT LABEL	1
5	L33C	INSTRUCTION MANUAL LABEL	1	12	L135	NO STEP LABEL	1
6	L33D	AUTHORIZED PERSONNEL ONLY LABEL	1	13	L33B	CAUTION MOVING PARTS LABEL (NOT SHOWN)	2
7	L49	CAUTION CORD LABEL	1				



# Warranty

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National Flooring Equipment Inc. (referred to as "the Company") warrants that each new unit manufactured by The Company, to be free from defects in material and workmanship in normal use and service for a period of twelve (12) months from date of shipment from the Company. For administrative ease, will honor warranty for a period of fifteen (15) months from date of shipment from the company. Accessories or equipment furnished and installed on the product by the Company but manufactured by others, including but not limited to: engines, motors, electrical components, transmissions etc., shall carry the accessory manufacturers own warranty. Battery warranties are prorated over the warranty period. Customer is responsible for the inspection of equipment / parts upon delivery. Freight damages reported beyond authorized time frame will not be honored.

The Company, at its determination of defect, will repair or replace any product or part deemed to be defective in material or workmanship within specified warranty time period. All product determinations and / or repairs will take place at the designated Company repair facility, or at a certified warranty location designated by the Company. The Company will coordinate and be responsible for all freight expenses associated with valid warranty claims. Freight and shipping expenses associated with abuse or misuse will be back charged to the Distributor/Customer. The Company reserves the right to modify, alter or improve any part / parts without incurring any obligation to replace any part / parts previously sold without such modified, altered or improved part / parts. In no event shall the seller or manufacturer of the product be liable for special, incidental, or consequential damages, including loss of profits, whether or not caused by or resulting from the negligence of seller and / or the manufacturer of the product unless specifically provided herein. This warranty shall not apply to any products or portions there of which have been subjected to abuse, misuse, improper installation or operation, lack of recommended maintenance, electrical failure or abnormal conditions and to products which have been tampered with, altered, modified, repaired, reworked by anyone not approved or authorized by the Company or used in any manner inconsistent with the provisions of the above or any instructions or specifications provided with or for the product. Any and all unauthorized onsite warranty work conducted by unauthorized personnel or any outside person(s), is not covered by the Company unless the work has been pre-authorized by a predetermined manufacturer representative. This excludes wearable parts and/or consumables.

Defective or failed material or equipment shall be held at the purchaser's premises until authorization has been granted by the Company to return or dispose of defective products. Products returned for final inspection must be returned with a manufacturer authorized Return Material Authorization (RMA). Any unauthorized return of equipment will be declined at the dock by the Company. Any non-approved items returned with approved returned items are subject to rejection and will not be credited. Credit will be issued for material found to be defective upon the Company's inspection based on prices at time of purchase.

**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.**

**RETURN/REPAIR AUTHORIZATION NUMBER:** \_\_\_\_\_

**MACHINE SERIAL NUMBER:** \_\_\_\_\_



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