

15" PLANER



STEEL CITY TOOL WORKS VER. 3.07

Manual Part No. OR71029



THANK YOU for purchasing your new Steel City Planer. This planer has been designed, tested, and inspected with you, the customer, in mind. When properly assembled, used and maintained, your planer will provide you with years of trouble free service, which is why it is backed by one of the longest machinery warranties in the business.

This planer is just one of many products in the Steel City's family of woodworking machinery and is proof of our commitment to total customer satisfaction.

At Steel City we continue to strive for excellence each and every day and value the opinion of you, our customer. For comments about your planer or Steel City Tool Works, please visit our web site at www.steelcitytoolworks.com .

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INTRODUCTION

This user manual is intended for use by anyone working with this machine. It should be kept available for immediate reference so that all operations can be performed with maximum efficiency and safety. Do not attempt to perform maintenance or operate this machine until you have read and understand the information contained in this manual.

This Planer is designed to process wood only. Any other use is forbidden. This machine is not to be modified for any reasons.

The drawings, illustrations, photographs, and specifications in this user manual represent your machine at time of print. However, changes may be made to your machine or this manual at any time with no obligation to Steel City Tool Works.

WARRANTY

2 YEAR LIMITED WARRANTY

Steel City Tool Works, LLC (SCTW) warrants this SCTW machinery to be free of defects in workmanship and materials for a period of 2 years from the date of the original retail purchase by the original owner for domestic use. Granite components are warranted for 2 years based on normal use and is void if non SCTW accessories are used that cause the break or chip. Customer must advise SCTW within 30 days for any damage or defect found upon receipt of the product to qualify for the warranty on granite.

The warranty does not cover any product used for professional or commercial production purpose nor for industrial or educational applications. Such cases are covered by our 1 year Limited Warranty with the Conditions and Exceptions listed below.

Conditions and exception:

Warranty applies to the original buyer only and may not be transferred. Original proof of purchase is required.

Warranty does not include failures, breakage or defects deemed after inspection by an Authorized Service Center, (ASC) or agent of, have been directly or indirectly caused by or resulting from improper use, lack of or improper maintenance, misuse or abuse, negligence, accidents, damage in handling or transport, or normal wear and tear of any part or component.

Additionally, warranty is void if repairs or alterations are made to the machine by an unauthorized service center without the direct consent of SCTW

Consumables such as blades, knives, bits and sandpaper are not covered. Wear items such as drive belt, bearings, switch, are covered for 1 year.

To file a claim of warranty or to find a service center, call toll free 877-724-8665 or email customercare@steelcitytoolworks.net and you must be able to present the original or photo copy of the sales receipt including the serial number from the machine and/or carton.

SCTW will inspect, repair or replace, at its expense and its option, any part that has proven to be defective in workmanship or material, provided that the customer returns the product prepaid to a designated ASC and provides SCTW with a reasonable opportunity to verify the alleged defect by inspection. SCTW will return the product or replacement at our expense unless it is determined by us that there is no defect or that the defect resulted from causes not within the scope of our *warranty in which case we will, at your direction, dispose of or return the product.* In the event you choose to have the product returned, you will be responsible for the handling and shipping costs of the return.

SCTW furnishes the above warranties in lieu of all other warranties, express or implied. SCTW shall not be liable for any special, indirect, incidental, punitive or consequential damages, including without limitation loss of profits arising from or related to the warranty, the breach of any agreement or warranty, or the operation or use of its machinery, including without limitation damages arising from damage to fixtures, tools, equipment, parts or materials, direct or indirect loss caused by and other part, loss of revenue or profits, financing or interest charges, and claims by and third person, whether or not notice of such possible damages has been given to SCTW. Damages or any kind for any delay by or failure of SCTW to perform its obligations under this agreement or claims made a subject of a legal proceeding against SCTW more than one (1) year after such cause of action first arose.

The validity, construction and performance of this Warranty and any sale of machinery by SCTW shall be governed by the law of the Commonwealth of Pennsylvania, without regard to conflicts of law's provisions of any jurisdiction. Any action related in any way to any alleged or actual offer, acceptance or sale by SCTW or any claim related to the performance of and agreement including without limitation this Warranty, shall take place in the federal or state courts in Allegheny County, Pennsylvania.

Warranty registration card must be submitted to SCTW for purpose of proof within 90 days of purchase with a copy of the sales receipt. Failure to do so will, revert the 2 year warranty to 1 year as in the terms stated above. This registration is also needed to facilitate contact in case of a safety recall.

This warranty gives you specific legal rights and you may have other rights which vary in certain States or Provinces.

Note to user

This instruction manual is meant to serve as a guide only. Specification and references are subject to change without prior notice. Check the website www.steelcitytoolworks.com for updated manuals with reference to the VER# located on the front page.

LIMITED WARRANTY – ACCU-SHOP line of bench top tools

Steel City Tool Works, LLC (SCTW) warrants this SCTW ACCU-SHOP machinery to be free of defects in workmanship and materials for a period of 2 years from the date of the original retail purchase by the original owner for domestic use. Consumables such as blades, knives, bits and sandpaper are not covered.

Wear items such as drive belt, bearings, switch, are covered for 1 year.

The warranty does not cover any product used for professional or commercial production purpose nor for industrial or educational applications. Such cases are covered by our 30 days Limited Warranty with the Conditions and Exceptions listed previously.

WARRANTY CARD

Name			How would you rank your wo Simple	Intermediate
Street				
Apt. No.			Advance	Master Craftsman
City State Zip				
Phone Number		9. 1	How many Steel City machin	es do you own?
-Mail				
Product Description:			What stationary woodworking <i>Check all that apply.</i>	g tools do you own?
Model No.: Serial No.:				Daniel Carry
IOTE: The Proof of Purchase must be submitted alor			Air Compressor	Band Saw
ard in order to have the Warranty to take into effect. F			Drill Press	Drum Sander
he Proof of Purchase may invalidate your Product War			Dust Collection	Horizontal Boring Machir
The following information is given on a voluntary l			Jointer	Lathe
and is strictly confidential.	04010		Mortiser	Panel Saw
•			Planer	Power Feeder
. Where did you purchase your STEEL CITY machi	ine?		Radial Arm Saw	Shaper
Store:			Spindle Sander	Table Saw
City: Online:			Vacuum Veneer Press	Wide Belt Sander
		(Other	
How did you first learn of Steel City Tool Works?				
Advertisement Mail Order Catalo	g	11. \	Which benchtop tools do you	own? Check all that apply.
Web Site Friend	-		Belt Sander	Belt / Disc Sander
Local Store Other			Drill Press	Band Saw
			Grinder	Mini Jointer
. Which of the following magazines do you subscrib	ne to?		Mini Lathe	Scroll Saw
American Woodworker Cabinetma			Spindle / Belt Sander	Other
Canadian Woodworking Family Ha		-	Opindie / Deit Sandei	Other
Fine Homebuilding Fine Wood		10 1	Mhiah nawahla / hand hald n	avver to alle de view avve?
			Which portable / hand held p Check all that apply.	ower tools do you own?
Journal of Light Construction Old House			Belt Sander	Riccuit Jointon
Popular Mechanics Popular S				Biscuit Jointer
Popular Woodworking Today's H			Dust Collector	Circular Saw
WOOD Woodcraft		_	Detail Sander	Drill / Driver
WOODEN Boat Woodshop		_	Miter Saw	Orbital Sander
Woodsmith Woodworl		_	Palm Sander	Portable Thickness Planer
Woodworker Woodworl	ker's Journal		Saber Saw	Reciprocating Saw
Workbench Other		-	Router	Other
Which of the following woodworking / remodeling syou watch? Backyard America The American Wood			What machines / accessories STEEL CITY line?	s would you like to see added to t
Home Time The New Yankee W				
	•			
This Old House Woodwright's Shop Other		14. \	What new accessories would	I vou like to see added?
Otrioi				
. What is your annual household income?				
\$20,000 to \$29,999 \$30,000 to \$	39,999			
\$40,000 to \$49,999 \$50,000 to \$	59,999	15.	Do you think your purchase i	epresents good value?
\$60,000 to \$69,999	•		Yes No	
\$80,000 to \$89,999\$90,000 +				
\$25,535 12 \$25,535		16.	Would you recommend STE	EL CITY products to a friend?
What is your age group?			Yes No	•
20 to 29 years 30 to 39 years				
		17.	Comments:	
40 to 49 years 50 to 59 years		.,.		
60 to 69 years 70 + years				
7. Hamlana hama ya kasa sa				
. How long have you been a woodworker?				
0 to 2 years 2 to 8 years		-		
8 to 20 years over 20 years				



PLACE STAMP HERE

SteelCityToolWorks #4 Northpoint Court Bolingbrook, IL 60440

FOLD ON DOTTED LINE

PRODUCT SPECIFICATIONS

Capacities

Maximum stock width 15-in.

Maximum stock thickness 6-in.

Maximum depth-of-cut 1/8-in.

Minimum length of stock 7-in.

Feed Rate 16-20 FPM

Cutterhead

Speed 5000 RPM

Number of Knives 3

Diameter 2-7/8"

Cuts Per Minute 15,000

Motor Specifications

Type Induction

Horsepower 3HP

Amps 15

Voltage 230V

Phase Single

Hertz 60

RPM's 3450

Product Dimensions

Footprint 22-5/8" x 22"

Length 32"

Width 48"

Height 43-1/2"

Weight 473 lbs.

Shipping Dimensions

Carton Type Wooden Crate

Length 28"

Width 30"

Height 46-1/2"

Gross Weight 539 lbs.

ACCESSORIES AND ATTACHMENTS

There are a variety of accessories available for your Steel City Product. For more information on any accessories associated with this and other machines, please contact your nearest Steel City distributor, or visit our website at: **www.steelcitytoolworks.com**.

DEFINITION OF TERMS

Workpiece – The wood or lumber that you are working on.

Planing – Refers to the sizing of the lumber to a desired thickness, while creating a level surface.

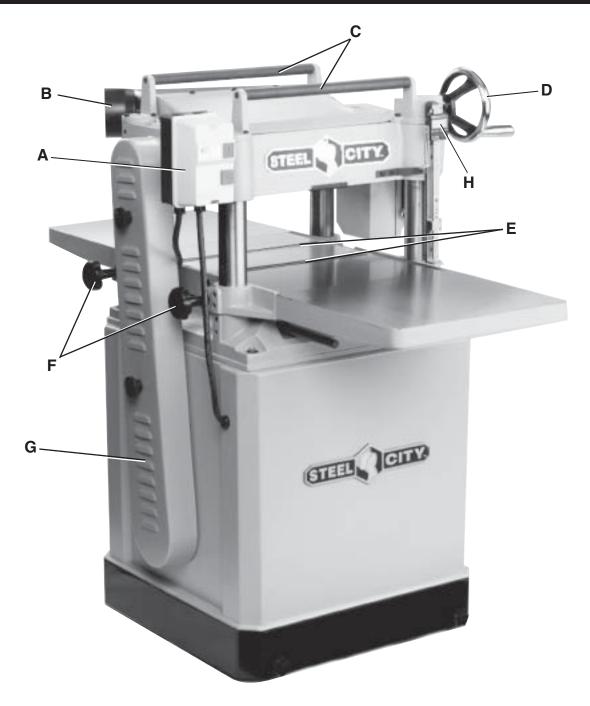
Snipe – Gouging that can occur at the end of a board.

Chatter Marks – An uneven "washboard" type of cut caused by incorrect chipbreaker settings.

Chip Marks – Occur when knives catch the chips and drag them across the lumber being planed, caused by exhaust blockage or improper chip deflector settings

Tear Out – Deep gouging caused by improper chipbreaker settings.

FEATURE IDENTIFICATION



- A) Switch
- B) Dust Port
- C) Return Rollers
- D) Table Raise/Lower Handwheel
- E) Bed Rollers
- F) Table Lock Knobs
- G) Belt Guard
- H) Digital Readout

GENERAL SAFETY

A WARNING

TO AVOID serious injury and damage to the machine, read and follow all Safety and Operating Instructions before assembling and operating this machine.

This manual is not totally comprehensive. It does not and can not convey every possible safety and operational problem which may arise while using this machine. The manual will cover many of the basic and specific safety procedures needed in an industrial environment.

All federal and state laws and any regulations having jurisdiction covering the safety requirements for use of this machine take precedence over the statements in this manual. Users of this machine must adhere to all such regulations.

Below is a list of symbols that are used to attract your attention to possible dangerous conditions.



This is the international safety alert symbol. It is used to alert you to potential personal injury hazards. Obey all safety messages that follow this symbol to avoid possible injury or death.

A DANGER

Indicates an imminently hazardous situation which, if not avoided, **WILL** result in death or serious injury.

WARNING

Indicates a potentially hazardous situation which, if not avoided, **COULD** result in death or serious injury.

A CAUTION

Indicates a potentially hazardous situation, if not avoided, **MAY** result in minor or moderate injury. It may also be used to alert against unsafe practices.

CAUTION

CAUTION used without the safety alert symbol indicates a potentially hazardous situation which, if not avoided, may result in property damage.

NOTICE

This symbol is used to alert the user to useful information about proper operation of the machine.

A WARNING



Exposure to the dust created by power sanding, sawing, grinding, drilling and other construction activities may cause serious and permanent respiratory or other injury, including silicosis (a serious lung disease), cancer, and death. Avoid breathing the dust, and avoid prolonged contact with dust. The dust may contain chemicals known to the State of California to cause cancer, birth defects or other reproductive harm.

Some examples of these chemicals are:

- · Lead from lead-based paints.
- Crystalline silica from bricks, cement and other masonry products.
- Arsenic and chromium from chemically-treated lumber.

Always operate tool in well ventilated area and provide for proper dust removal. Use a dust collection system along with an air filtration system whenever possible. Always use properly fitting NIOSH/OSHA approved respiratory protection appropriate for the dust exposure, and wash exposed areas with soap and water.

 To avoid serious injury and damage to the machine, read the entire User Manual before assembly and operation of this machine.

A WARNING



 ALWAYS wear eye protection. Any machine can throw debris into the eyes during operations, which could cause severe and permanent eye damage. Everyday eyeglasses are NOT safety glasses. ALWAYS wear Safety Goggles (that comply with ANSI standard Z87.1) when operating power tools.

A WARNING



 ALWAYS wear hearing protection. Plain cotton is not an acceptable protective device. Hearing equipment should comply with ANSI S3.19 Standards.

A WARNING



- ALWAYS wear a NIOSH/OSHA approved dust mask to prevent inhaling dangerous dust or airborne particles.
- ALWAYS keep the work area clean, well lit, and organized. DO NOT work in an area that has slippery floor surfaces from debris, grease, and wax.
- 6. **ALWAYS** unplug the machine from the electrical receptacle before making adjustments, changing parts or performing any maintenance.
- AVOID ACCIDENTAL STARTING. Make sure that the power switch is in the "OFF" position before plugging in the power cord to the electrical receptacle.

A WARNING



 AVOID a dangerous working environment. DO NOT use electrical tools in a damp environment or expose them to rain.

A WARNING



- CHILDPROOF THE WORKSHOP AREA by removing switch keys, unplugging tools from the electrical receptacles, and using padlocks.
- 10. **DO NOT** use electrical tools in the presence of flammable liquids or gasses.

- 11. **DO NOT FORCE** the machine to perform an operation for which it was not designed. It will do a safer and higher quality job by only performing operations for which the machine was intended.
- DO NOT stand on a machine. Serious injury could result if it tips over or you accidentally contact any moving part.
- 13. **DO NOT** store anything above or near the machine.
- 14. **DO NOT** operate any machine or tool if under the influence of drugs or alcohol.
- 15. EACH AND EVERY time, check for damaged parts prior to using any machine. Carefully check all guards to see that they operate properly, are not damaged, and perform their intended functions. Check for alignment, binding or breakage of all moving parts. Any guard or other part that is damaged should be immediately repaired or replaced.
- 16. Ground all machines. If any machine is supplied with a 3-prong plug, it must be plugged into a 3contact electrical receptacle. The third prong is used to ground the tool and provide protection against accidental electric shock. **DO NOT** remove the third prong.
- 17. Keep visitors and children away from any machine. **DO NOT** permit people to be in the immediate work area, especially when the machine is operating.
- 18. **KEEP** protective guards in place and in working order.
- 19. **MAINTAIN** your balance. **DO NOT** extend yourself over the tool. Wear oil resistant rubber soled shoes. Keep floor clear of debris, grease, and wax.
- 20. **MAINTAIN** all machines with care. **ALWAYS KEEP** machine clean and in good working order. **KEEP** all blades and tool bits sharp.
- 21. **NEVER** leave a machine running, unattended. Turn the power switch to the OFF position. **DO NOT** leave the machine until it has come to a complete stop.
- 22. **REMOVE ALL MAINTENANCE TOOLS** from the immediate area prior to turning the machine ON.
- 23. **SECURE** all work. When it is possible, use clamps or jigs to secure the workpiece. This is safer than attempting to hold the workpiece with your hands.
- 24. STAY ALERT, watch what you are doing, and use common sense when operating any machine. DO NOT operate any machine tool while tired or under the influence of drugs, alcohol, or medication. A moment of inattention while operating power tools may result in serious personal injury.

- 25. USE ONLY recommended accessories. Use of incorrect or improper accessories could cause serious injury to the operator and cause damage to the machine. If in doubt, DO NOT use it.
- 26. **THE USE** of extension cords is not recommended for 230V equipment. It is better to arrange the placement of your equipment and the installed wiring to eliminate the need for an extension cord. If an extension cord is necessary, refer to the chart in the GROUNDING INSTRUCTIONS section of this manual to determine the minimum gauge for the extension cord. The extension cord must also contain a ground wire and plug pin.
- 27. Wear proper clothing, **DO NOT** wear loose clothing, gloves, neckties, or jewelry. These items can get caught in the machine during operations and pull the operator into the moving parts. Users must wear a protective cover on their hair, if the hair is long, to prevent it from contacting any moving parts.
- 28. **SAVE** these instructions and refer to them frequently and use them to instruct other users.

29. Information regarding the safe and proper operation of this tool is also available from the following sources:

Power Tool Institute 1300 Summer Avenue Cleveland, OH 44115-2851 www.powertoolinstitute.org

National Safety Council 1121 Spring Lake Drive Itasca, IL 60143-3201

American National Standards Institute 25West 43rd. St, 4th Floor New York, NY. 10036 ANSI 01.1 Safety Requirements For Woodworking Machines WWW.ANSI.ORG

U.S. Department of Labor Regulations OSHA 1910.213 Regulations WWW.OSHA.GOV

PRODUCT SAFETY

- Serious personal injury may occur if normal safety precautions are overlooked or ignored. Accidents are frequently caused by lack of familiarity or failure to pay attention. Obtain advice from supervisor, instructor, or another qualified individual who is familiar with this machine and its operations.
- 2. Every work area is different. Always consider safety first, as it applies to your work area. Use this machine with respect and caution. Failure to do so could result in serious personal injury and damage to the machine.
- Prevent electrical shock. Follow all electrical and safety codes, including the National Electrical Code (NEC) and the Occupational Safety and Health Regulations (OSHA). All electrical connections and wiring should be made by qualified personnel only.

A WARNING



- TO REDUCE the risk of electrical shock. DO NOT use this machine outdoors. DO NOT expose to rain. Store indoors in a dry area.
- STOP using this machine, if at any time you experience difficulties in performing any operation.
 Contact your supervisor, instructor or machine service center immediately.

- Safety decals are on this machine to warn and direct you to how to protector yourself or visitors from personal injury. These decals MUST be maintained so that they are legible. REPLACE decals that are not legible.
- 7. **DO NOT** leave the unit plugged into the electrical outlet. Unplug the unit from the outlet when not in use and before servicing, performing maintenance tasks, or cleaning.
- 8. **ALWAYS** turn the power switch "OFF" before unplugging the planer.

A WARNING



- 9. **DO NOT** handle the plug or planer with wet hands.
- USE only accessories as described in this manual.
 USE accessories only recommended by Steel City.
- 11. **DO NOT** pull the planer by the power cord. **NEVER** allow the power cord to come in contact with sharp edges, hot surfaces, oil or grease.
- 12. **DO NOT** unplug the planer by pulling on the power cord. **ALWAYS** grasp the plug, not the cord.

- 13. REPLACE a damaged cord immediately. DO NOT use a damaged cord or plug. DO NOT use if the planer is not operating properly, or has been damaged, left outdoors or has been in contact with water.
- 14. **DO NOT** use the planer as a toy. **DO NOT** use near or around children.
- 15. ENSURE that the machine sits firmly on the floor before using. If the machine wobbles or is unstable, correct the problem by using shims or blocks prior to operation.
- 16. This machine is designed to process wood only.

A WARNING



- 17. **NEVER** position fingers or hands near the infeed roller.
- Long pieces of stock should **ALWAYS** be supported with some type of fixture.
- DO NOT operate planer with dull or damaged blades.

- 20. **MAKE CERTAIN** that the planer is properly adjusted prior to use.
- 21. **DO NOT** try and remove excessive amounts of wood in one single pass.
- 22. INSPECT all stock before planing, ensuring that there are no foreign objects embedded in the wood, loose knots, or knots that may become loose during operation.

A WARNING



- 23. **DO NOT** attempt to remove jams until power is disconnected and all moving parts have come to a complete stop.
- 24. **MAKE SURE** that there is adequate operating space on both the infeed and outfeed sides of the planer before operating.
- 25. **DO NOT** attempt to plane wood that is less than 12" long or less than 1/4-inch thick.

ELECTRICAL REQUIREMENTS

A WARNING

TO PREVENT electrical shock, follow all electrical and safety codes, including the National Electrical Code (NEC) and the Occupational Safety and Health Regulations (OSHA). All electrical connections and wiring should be made by qualified personnel only.

TO REDUCE the risk of electrical shock, **DO NOT** use machine outdoors. **DO NOT** expose to rain. Store indoors in a dry area.

DO NOT connect the machine to the power source before you have completed the set up process. **DO NOT** connect the machine to the power source until instructed to do so.

The switch provided with your planer is designed for 230V single phase use only. The switch has a power cord with no plug attached. There are many different configurations for 230 V outlets. A UL/CSA approved plug that matches the configuration of your 230V outlet must be installed before you can operate this tool.

GROUNDING INSTRUCTIONS

A WARNING



This machine **MUST BE GROUNDED** while in use to protect the operator from electric shock.

In the event of a malfunction or breakdown, **GROUND-ING** provides the path of least resistance for electric current and reduces the risk of electric shock. The plug **MUST** be plugged into a matching electrical receptacle that is properly installed and grounded in accordance with **ALL** local codes and ordinances.

If a plug is provided with your machine **DO NOT** modify the plug. If it will not fit your electrical receptacle, have a qualified electrician install the proper connections to meet all electrical codes local and state. All connections must also adhere to all of OSHA mandates.

IMPROPER ELECTRICAL CONNECTION of the equipment-grounding conductor can result in risk of electric shock. The conductor with the green insulation (with or without yellow stripes) is the equipment-grounding conductor. **DO NOT** connect the equipment-grounding conductor to a live terminal.

Check with a qualified electrician or service personnel if you do not completely understand the grounding instructions, or if you are not sure the tool is properly grounded.

PLUGS/RECEPTACLES

A WARNING



- Electrocution or fire could result if this machine is not grounded properly or if the electrical configuration does not comply with local and state electrical codes.
- MAKE CERTAIN the machine is disconnected from power source before starting any electrical work.
- MAKE SURE the circuit breaker does not exceed the rating of the plug and receptacle.

The motor supplied with your machine is a 230 volt, 60 hertz, single phase motor. Never connect the green or ground wire to a live terminal

A machine with a 230 volt plug should only be connected to an outlet having the same configuration as the plug.

EXTENSION CORDS

A WARNING



To reduce the risk of fire or electrical shock, use the proper gauge of extension cord. When using an extension cord, be sure to use one heavy enough to carry the current your machine will draw.

The smaller the gauge-number, the larger the diameter of the extension cord is. If in doubt of the proper size of an extension cord, use a shorter and thicker cord. An undersized cord will cause a drop in line voltage resulting in a loss of power and overheating.

A CAUTION

USE ONLY a 3-wire extension cord that has a 3-prong grounding plug and a 3-pole receptacle that accepts the machine's plug.

If you are using an extension cord outdoors, be sure it is marked with the suffix "W-A" ("W" in Canada) to indicate that it is acceptable for outdoor use.

Make certain the extension cord is properly sized, and in good electrical condition. Always replace a worn or damaged extension cord immediately 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.

MINIMUM RECOMMENDED GAUGE FOR EXTENSION CORDS (AWG)

230 VOLT OPERATION ONLY								
	100' LONG							
0 to 6 Amps	16 AWG	16 AWG	14 AWG					
6 to 8 Amps	16 AWG	16 AWG	12 AWG					
8 to 12 Amps	14 AWG	14 AWG	10 AWG					
12 to 15 Amps	12 AWG	12 AWG	10 AWG					
15 to 20 Amps	10 AWG	10 AWG	Not recommended					

UNPACKING & INVENTORY

A WARNING



- The machine is heavy, two people are required to unpack and lift.
- Use a safety strap to avoid tip over when lifting machine.

Check shipping carton and machine for damage before unpackaging. Carefully remove packaging materials, parts and machine from shipping carton. Always check for and remove protective shipping materials around motors and moving parts. Lay out all parts on a clean work surface.

Remove any protective materials and coatings from all of the parts and the planer. The protective coatings can

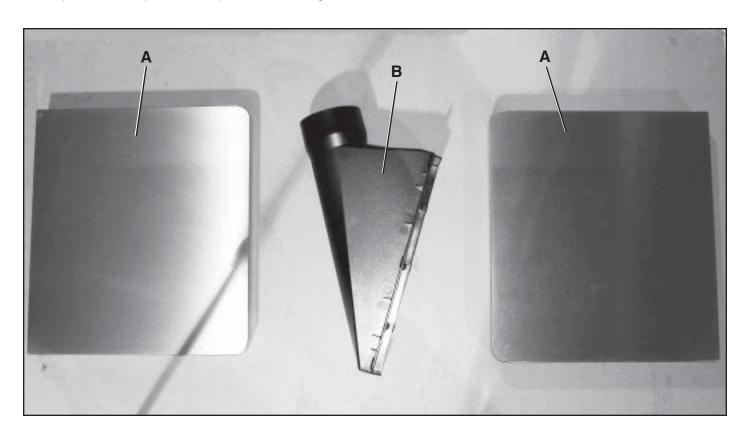
be removed by spraying WD-40 on them and wiping it off with a soft cloth. This may need redone several times before all of the protective coatings are removed completely.

After cleaning, apply a good quality paste wax to any unpainted surfaces. Make sure to buff out the wax before assembly.

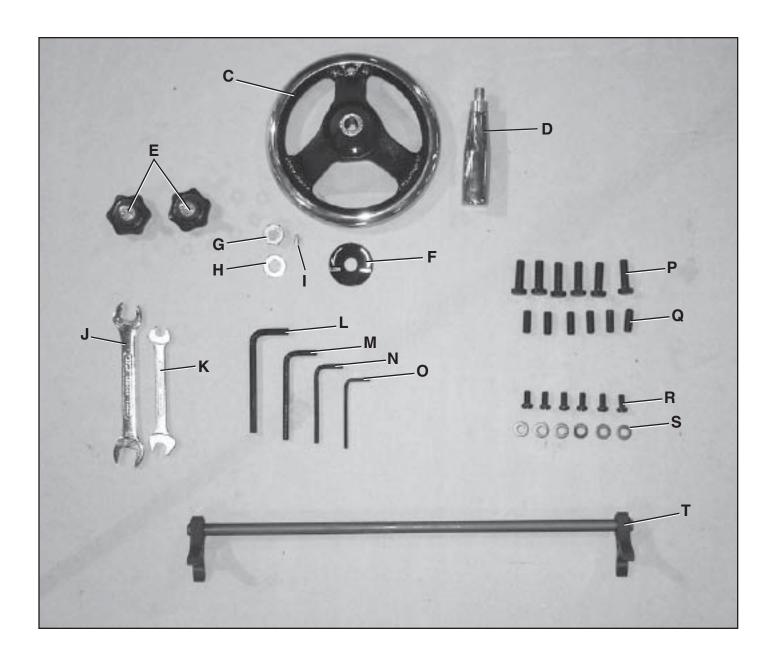
Compare the items to inventory figures; verify that all items are accounted for before discarding the shipping box.

A WARNING

If any parts are missing, do not attempt to plug in the power cord and turn "ON" the machine. The machine should only be turned "ON" after all the parts have been obtained and installed correctly. For missing parts, contact Steel City at 1-877-SC4-TOOL.



- (A) Extension Wings
- (B) Dust Port



- (C) Handwheel
- (D) Handle
- (E) Lock Knobs
- (F) Directional Label
- (G) 10mm Hex Nut
- (H) 10mm Flat Washer
- (I) Key
- (J) 12-14mm Open End Wrench
- (K) 8-10mm Open End Wrench

- (L) 6mm Allen Wrench
- (M) 5mm Allen Wrench
- (N) 4mm Allen Wrench
- (O) 3mm Allen Wrench
- (P) M8 x 25mm Hex Head Screws
- (Q) M8 x 20mm Set Screws
- (R) M6 Round Head Screws
- (S) M6 Flat Washer
- (T) Knife Setting Jig

ASSEMBLY

Before beginning assembly, take note of the following precautions and suggestions

▲ CAUTION

FLOOR

This tool distributes a large amount of weight over a small area. Most commercial floors are appropriate for this unit, however, in residential use, flooring may need added reinforcement to accommodate the weight of the machine and operator.

WORKING CLEARANCES

Take into consideration the size of the material to be processed, space for auxiliary stands, work benches, etc. before setting up this machine. Make sure that you allow enough space for your machine to operate freely.

OUTLET PLACEMENT

Outlets should be located close enough to the machine so that the power cord or extension cord is not in an area where it would cause a tripping hazard. Be sure to observe all electrical codes if installing new circuits and or outlets.

A WARNING

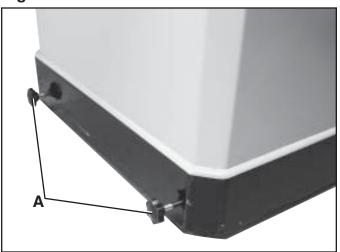
- 1. **DO NOT** assemble the Planer until you are sure the tool is not plugged in.
- 2. **DO NOT** assemble the Planer until you are sure the power switch is in the OFF position
- For your own safety, **DO NOT** connect the machine to the power source until the machine is completely assembled and you read and understand the entire User Manual.

MOBILE BASE LOCK KNOBS

- 1. Locate the two holes in the front of the cabinet at the bottom. **SEE FIG. 1.**
- 2. Thread the two lock knobs (A) into the holes.

NOTE: To lock the mobile base, tighten the lock knobs against the wheels. To unlock, loosen the lock knobs so that the wheels move freely.

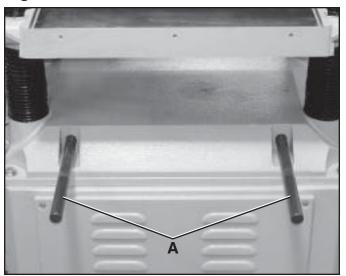
Fig. 1



A WARNING

This planer is a very heavy piece of equipment. To assist with moving the unit, this Planer contains lifting handles (A) that slide out from the base of the planer head. SEE FIG 1A. These handles can be used as lifting points using a forklift or overhead lift. Attempting to lift this unit without the proper equipment or adequate assistance could result in a serious injury.

Fig. 1A

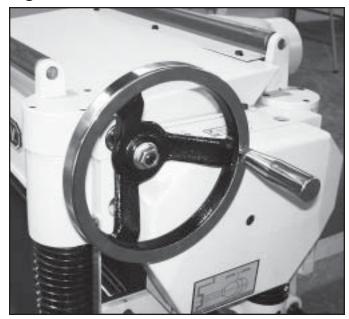


HANDWHEEL

The purpose of the handwheel is for raising and lowering the planer table

- 1. Locate the handwheel shaft at the front right corner of the planer. **SEE FIG. 2.**
- 2. Insert the key into the keyway on the handle shaft.
- 3. Line up the notch in the handwheel with the key and slide the handwheel onto the handle shaft.
- 4. Slide the direction scale over the shaft, making sure it rests against the center face of the handwheel.
- 5. Secure the handwheel using one 10mm hex nut and one 10mm flat washer provided.
- Screw handle into the threaded hole on the handwheel.

Fig. 2

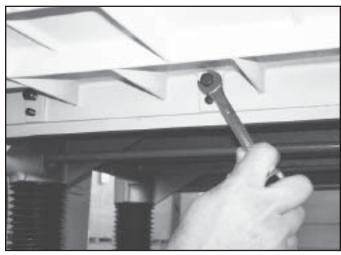


EXTENSION WINGS

The extension wings support the workpiece as it enters and exits the planer.

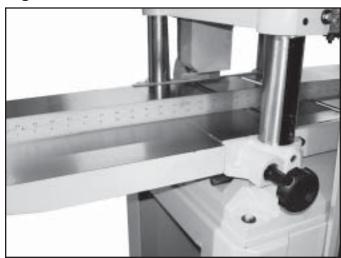
- To mount the extension wings, thread three M8 x 20mm set screws into the bottom holes of the extension wing. Only screw them in about 1/3 of the way for now.
- 2. Using three M8 x 25mm hex head mounting bolts, mount one extension wing to the main table. **SEE FIG 3**.

Fig. 3



3. Place a straight edge on the main table so that it lies flat on the table and extends out over the extension wing. **SEE FIG 4**.

Fig. 4



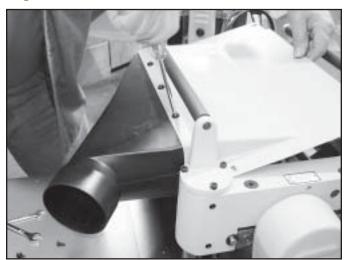
- 4. Adjust the three set screws until edge of the extension wing that is the furthest away from the main table is even with the straight edge. Please note that it may take several combinations of loosening and/or tightening the set screws and mounting bolts to get the extension wing level with the main table.
- 5. Repeat steps 1-4 to attach the other extension wing to the other side of the main table.

DUST PORT

This planer features a 4-in Dust Port for use with a dust collection system. If this is planer is not to be hooked up to a dust collection system, **DO NOT** attach the dust port.

- Unbolt the upper cover from the planer to allow access to the screw holes.
- 2. To attach the dust port, mount the port under the upper cover on the planer.
- 3. Line up the 3 holes on the top of the dust port with the 3 holes on the upper cover and fasten with three M6 round head screws, and three M6 flat washers. **SEE FIG 5**.
- 4. Rebolt the upper cover to the planer.

Fig. 5



KNIFE SETTING JIG

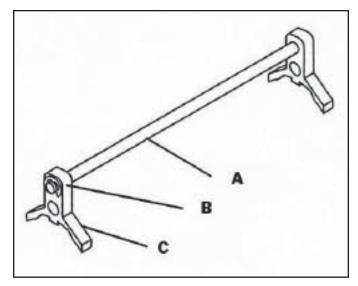
The knife setting jig provides a convenient way to make setting the knives quick and simple.

- 1. To assemble the knife setting jig, snap one of the e clips (B) over the notch on one end of the knife setting rod (A).
- 2. Slide both of the knife setting jig brackets (C) onto the rod.
- 3. Snap on the other e clip to the opposite end of the rod. **SEE FIG 6**.

A CAUTION

Planer knives are extremely sharp. Please use extra caution when your hands are near the blades.

Fig. 6



ADJUSTMENTS

Some of the adjustments covered in this section have already been made at the factory. It is still a good idea to familiarize yourself with all of the following procedures so that you have a solid understanding of the planers operation.

TABLE PARALLELISM ADJUSTMENT

To make adjustments to the table, it is necessary to make a gauge block.

When constructing this block, be sure to use a hard-wood such as oak or maple. **DO NOT** use standard 2 x 4 material. A diagram for this block is located near the end of the manual.

NOTICE: A substitute for this gauge block would be to use a magnetic dial indicator. Anywhere it calls for use of the gauge block in this section, you may substitute with the dial indicator.

A WARNING

DO NOT make adjustments while the planer is running. Make certain that the switch is in the off position and that the machine is disconnected from the power source.

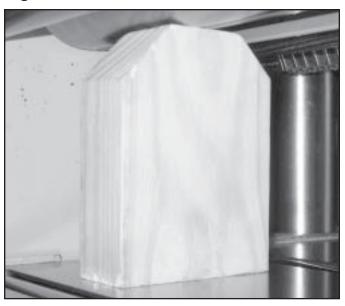
A CAUTION

Planer knives are extremely sharp. Please use extra caution when your hands are near the blades.

1. Having the table parallel to the cutterhead is essential for planing stock perfectly square. Check this by placing the gauge block that you have constructed under the left end of the cutterhead.

- Turn the handwheel clockwise to raise the table so that the block barely touches the left side of the body of the cutterhead. NOTE: Make sure that the block is actually touching the body of the cutterhead and not the knives. SEE FIG 7.
- Slide the block to the right taking note of any gaps between the top of the block and the bottom of the cutterhead body. Measure any of these gaps with a feeler gauge.
- 4. When moving the block from left to right, if the block wedges tightly between the cutterhead and the table, repeat steps 2 and 3, but start from the right side of the cutterhead body and slide the block to the left.

Fig. 7



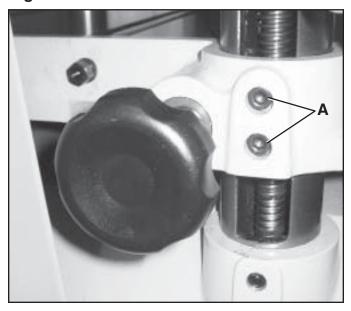
 Referring back to your measurements with the feeler gauge, if the gap difference from one side to the other is .004" or less, no adjustment will be necessary.

If the gap is greater than .004", but less than .016", proceed to step 6.

If the gap is greater than .016", refer to the ADJUSTING CHAIN DRIVE section in the ADJUST-MENTS section of the manual.

- 6. For gap differences between .005" and .016", determine which side of the table needs to be raised to fix the gap.
- 7. Locate the two cap screws (A) in the table casting for each of the columns. **SEE FIG 8**.

Fig. 8



- 8. Loosen both sets of screws for each column on the side that needs adjusted.
- Pull up or push down on the table in the direction that it needs to be adjusted, hold in position and retighten the screws.
- 10. Repeat these steps until the variance is .004" or less.

CHAIN ADJUSTMENTS

The chain drive in your planer transfers movement from the hand wheel driven column to the three other support columns. The chain drive may require an adjustment to remove slack as the chain stretches over time, or as part of table leveling procedures.

A WARNING

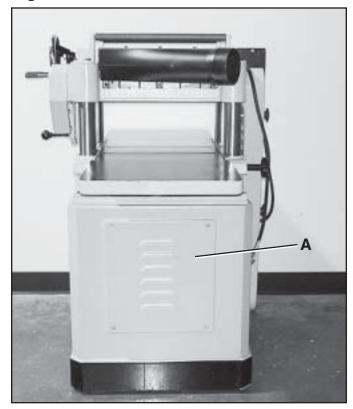
MAKE CERTAIN THE MACHINE IS DISCONNECTED FROM THE POWER SOURCE.

CHAIN TENSION

To adjust Chain Tension:

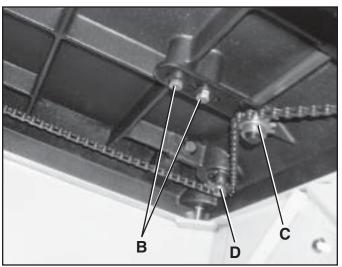
Remove the access panel (A) on the stand.
 SEE FIG 8A.

Fig. 8A



Loosen the two hex head bolts (B) that fasten the idler sprocket (C) to the base and move the idler sprocket until excess slack in the chain has been eliminated. SEE FIG 8B.

Fig. 8B



- 3. Retighten the two hex head bolts.
- 4. Replace access panel.

ADJUSTING CHAIN DRIVE

Notice: The following steps should only be done AFTER you have gone through the TABLE PARALELL-ISM ADJUSTMENT section of this manual and the measurements you attained from that section are greater than .016".

A WARNING

MAKE CERTAIN THE MACHINE IS DISCONNECTED FROM THE POWER SOURCE.

- 1. Remove the panel (A) to gain access to the chain drive assembly. **SEE FIG 8A**, page 19.
- Loosen two hex head bolts (B) that fasten the idler sprocket (C) to the base until you can turn each corner sprocket (D) independently. One of the corner sprockets is shown in Fig 8B. SEE FIG 8B, page 19.

Notice: If the chain drive is loosened too much, it will fall off all of the sprockets. Replacing a chain that has come off the sprockets is a very tedious process. Make sure to loosen the idler pulley just enough to allow you to be able to turn the corner sprockets.

- Each tooth on a corner sprocket represents .016 of vertical movement as it turns.
- 4. Whichever end of the table is too high, turn the sprockets at that end of the table clockwise to lower the table. For example if the back end of the table is too high, the back two sprockets would need to be rotated clockwise to lower the back side of the table. If the right side of the table is too high, the right side two sprockets would be rotated clockwise to lower the right side, etc.

Notice: Make certain, as you turn the sprockets, to keep an accurate tooth count to ensure that the table is lowered equally on a specific side.

Recheck Table Parallelism using your gauge block.
 Once the tolerance is less than .016", replace
 access cover and refer back to the TABLE PARA LELLISM ADJUSTMENT section in the ADJUST MENT section of this manual.

KNIFE INSPECTION

▲ CAUTION

Planer knives are extremely sharp. Please use extra caution when your hands are near the blades.

The Planer knives are set at the factory using jack screws. Springs are also included with your planer which may be used instead of the jack screws, depending on your preference. These springs are installed beneath the knives.

You can leave the springs in place as it will not affect the adjustments if they are not removed.

If you prefer to use the spring adjustment method, you will need to remove each knife, remove the jack screws, leave the two springs under each knife and replace the knife. Follow the steps below if using the spring adjustment method.

A WARNING

MAKE CERTAIN THE MACHINE IS DISCONNECT-ED FROM THE POWER SOURCE.

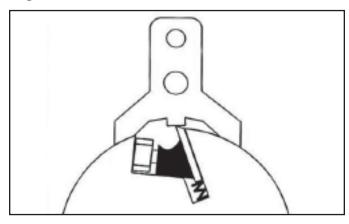
 Remove the dust port and upper cover and cutterhead guard to expose the top of the cutterhead.
 SEE FIG 9.

Fig. 9



- 2. Remove the belt guard. Turn the cutterhead (using the pulley) until the first knife is top dead center.
- 3. Using the knife setting gauge, check the knife height. The jig should set with both feet on the cutterhead. SEE FIG 10, page 21. If the knife is properly adjusted, the contact point at the center of the gauge should just touch the tip of the knife. If the knife does not make contact, or if the knife is high enough to cause the legs of the jig not to set on the cutterhead, the knives will need adjusted. Be sure to inspect all 3 knives in the same manner.

Fig. 10



The planer knives will need to be adjusted periodically and ultimately will need to be removed to be sharpened. Adjustments should be as precise as possible with tolerances within .002" -.003". This will help prolong the sharpness of the knife edges. Improperly adjusted knives can cause an imbalance condition in the cutterhead and shorten bearing life, as well as produce substandard results.

- 4. Loosen the gib bolts by turning them clockwise until the knife is loose in the slot.
- 5. Carefully remove the knife.
- Unscrew the jack screws completely from the threaded hole and remove.
- Be sure that there is one spring in each of the two holes in the bottom of the knife slot. SEE FIG 11.

NOTICE: The springs **DO NOT** go into the threaded hole where the jack screws were installed.

Fig. 11



KNIFE ADJUSTMENT

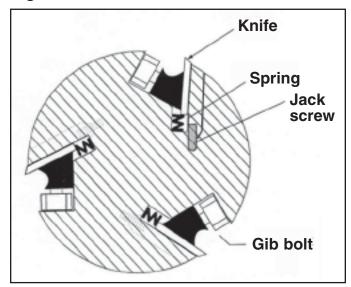
The knives are locked in the cutterhead with wedge type gibs and gib bolts. Springs located under the knives assist in setting the knife height. Jack screws under the knives allow fine tuning to help out in the setting process.

WARNING

MAKE CERTAIN THE MACHINE IS DISCONNECTED FROM THE POWER SOURCE.

- 1. MAKE CERTAIN THE MACHINE IS DISCONNECTED FROM THE POWER SOURCE.
- 2. Remove the upper cover to expose the cutterhead.
- Loosen the gib bolts until the knife is loose in the slot. The gib bolts turn clockwise to loosen and counterclockwise to tighten. SEE FIG 12.

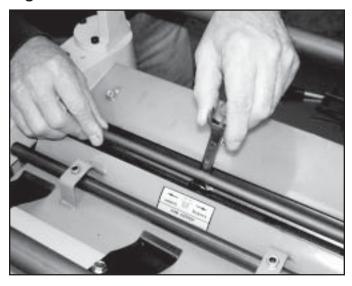
Fig. 12



- 4. Place the knife setting jig over the knife on the cutterhead as shown in Fig. 13, page 22. The feet of the jig should be securely planted on the cutterhead, making sure the gauge rod remains parallel to the cutterhead. SEE FIG. 13 ON PAGE 22.
- 5. Lower the jack screws as low as possible.
- Maintain a steady pressure on the knife setting jig while retightening the gib bolts. The springs in the cutterhead will push up on the knife allowing for proper alignment of the knives.
- Once gib bolts are tightened, raise jack screws until they just touch the bottom of the knife. You should feel resistance when the jack screw touches the bottom of the knife.

NOTICE: When making adjustments to the planer knives, all three knives must be adjusted the same. **DO NOT** adjust one knife without adjusting the others as this can result in knife damage, poor performance and possible injury to the operator.

Fig. 13



CHIP BREAKER

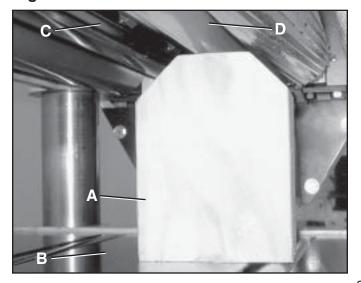
The chip breaker is located on the top side of the planer and it extends down around the front of the cutterhead. The purpose of the chip breaker is to prevent deep gouging, also known as tear-out, as the knives do their job. It works by breaking up the woodchips as they are being cut by the knives. The chip breaker also deflects the woodchips away from the surface of the board and out the rear of the planer.

A WARNING

DO NOT make adjustments while the planer is running. Make certain that the switch is in the off position and that the machine is disconnected from the power source.

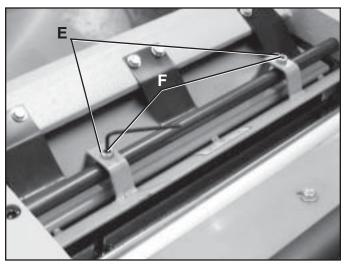
- 1. Remove the upper cover and dust hood, and lower the table.
- 2. Make sure that the knives are properly adjusted.
- 3. Place the gauge block (A) on the table (B) directly under the cutterhead (C). **SEE FIG 16**.

Fig. 16



- 4. Rotate the cutterhead until one of the knives are at its lowest point.
- 5. Using a .040" feeler gauge between the gauge block and the cutterhead, raise the table until the knife just touches the feeler gauge.
- 6. Lock the table using the table lock knobs.
- 7. Remove your feeler gauge and slide the gauge block under one side of the chip breaker (D). The chip breaker should just touch the top of the gauge block.
- 8. Slide the gauge block to the opposite side of the chip breaker, checking it the same way.
- If any adjustment is necessary, loosen the locknuts (E) and turn the setscrews (F). Stop turning when the chipbreaker just touches the top of the gauge block. SEE FIG 17.

Fig. 17



10. Retighten both locknuts and replace cover and dust hood.

FEED ROLLER HEIGHT

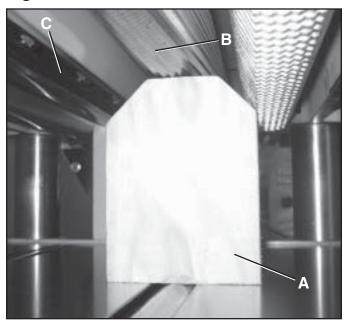
The infeed and outfeed rollers are responsible for moving the workpiece through the machine and pressing the workpiece flat against the main table.

WARNING

MAKE CERTAIN THE MACHINE IS DISCONNECTED FROM THE POWER SOURCE

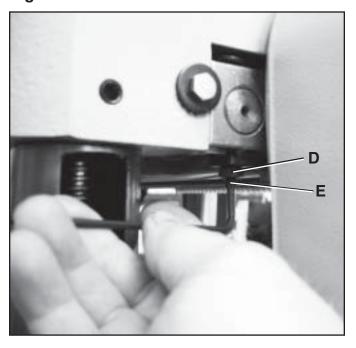
- 1. Lower the table so the gauge block (A) fits under one side of the infeed roller (B).
- Raise the table until the gauge block just barely touches one side of the infeed roller. SEE FIG 18.

Fig. 18



- 3. Push the gauge block through so that it is under the edge of one of the knives.
- 4. Turn the cutterhead (C) by hand until one of the knives are in its lowest position.
- 5. Using a feeler gauge, check the clearance between the top of the gauge block and the edge of the knife. Clearance should be .040".
- 6. Repeat steps 1-5 for the opposite side of the roller.
- 7. Repeat this same process for the outfeed roller. If any adjustment is necessary continue on to step 8.
- Remove the drive chain cover to access the roller adjustments on the drive chain side of the planer.
 One socket head cap screw holds the drive chain cover in place.
- Loosen the roller adjustment check nuts (D) and turn the roller height set screws (E) to change the height of the roller. SEE FIG 19.

Fig. 19



- 10. When the roller is set in the correct position, retighten the check nuts from step 9.
- 11. Recheck roller height and repeat steps 8-10 if necessary.

FEED ROLLER PRESSURE

Infeed and outfeed roller pressure is an important aspect of any planer. When the workpiece is fed through the planer, the correct amount of pressure will help ensure that the board does not slip (too little pressure) or does not jam (too much pressure).

NOTICE: Excessive pressure may damage workpiece It's important to note that different lumber will require varying amounts of pressure, so you may have to experiment with different settings. While some rough cut lumber will go through the planer with little trouble at one pressure setting, other pieces may have some more difficulty.

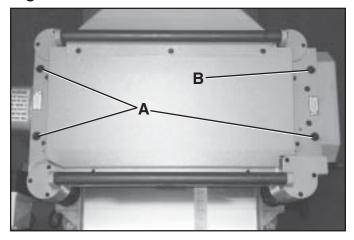
NOTICE: Adjusting the roller pressure does not affect height.

A WARNING

MAKE CERTAIN THE MACHINE IS DISCONNECT-ED FROM THE POWER SOURCE.

- 1. Before adjusting roller pressure, ensure that the knives and feed rollers are set correctly.
- 2. Unscrew the four large pressure set screws (A and B) on the top of the planer body. **SEE FIG 20**.

Fig. 20



- Remove the springs that are in the holes left by the set screws and check for any dirt or grit, cleaning off any dirt and replace springs.
- Screw the three regular pressure set screws (A) back in until they are flush with the top of the head casting.
- 5. Screw in the light pressure set screw (B) until it is about 1/4" above the head casting. The reason this screw is not tightened as much as the other three is that the feed chain helps apply the needed tension to this side of the outfeed roller.
- Tightening the set screws down further will INCREASE roller pressure, while backing them off will DECREASE roller pressure.

BED ROLLERS

The bed rollers aid the movement of the workpiece through the planer. The height of these rollers will vary depending on the types of wood being processed. For rough stock, the rollers should be set slightly higher to keep the lumber from dragging along the bed. For smooth lumber, the rollers should be set just above the surface of the table.

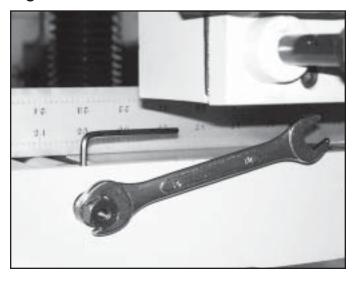
A WARNING

MAKE CERTAIN THE MACHINE IS DISCONNECT-ED FROM THE POWER SOURCE.

- 1. Lay a straight edge across both of the table rollers.
- 2. Using a feeler gauge, measure the clearance between the bottom of the straight edge and the table. Make sure to measure in several places.
- 3. If measurement is between .002" and .005", the clearance is acceptable. If you do not have a measurement of .002" to .005" go to step 4.
- Loosen the set screws located on both sides of each roller.

5. Using a wrench, turn the eccentric shafts to adjust the roller height up or down as shown in **FIG 21**.

Fig. 21



- 6. Repeat steps 1-5 until clearance is .002" to .005".
- 7. Retighten all set screws.
- 8. Spin rollers by hand to ensure that they move freely.

CHIP DEFLECTOR

The chip deflector (A) is the plate under the top cover that keeps woodchips from falling onto the outfeed roller. **SEE FIG. 22.**

A WARNING

MAKE CERTAIN THE MACHINE IS DISCONNECTED FROM THE POWER SOURCE

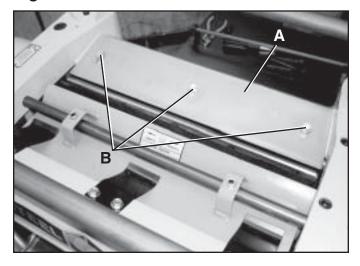
 The beveled edge of the deflector should be about 1/8"-1/4" from the knife edge. Check this by carefully rotating the cutterhead by hand to gauge the distance between the chip deflector and the knives.

A CAUTION

If the chip deflector is set too close to the knives, the rotating cutterhead may pull it in and destroy it.

2. If adjustment is necessary, loosen the three deflector mounting bolts (B). **SEE FIG 22**.

Fig. 22



- Make sure the beveled edge of the deflector faces the cutterhead.
- 4. Move the deflector until the edge is approximately 1/8" 1/4" from the edge of the knives.
- Push down on the deflector with a wooden stick and spin the cutterhead by hand to ensure that it does not contact the knives.

▲ CAUTION

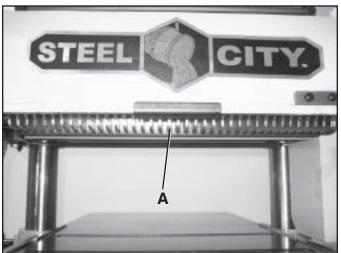
Planer knives are extremely sharp. Please use extra caution when your hands are near the blades.

6. Retighten the chip deflector mounting bolts and remount the upper cover to the planer.

ANTI- KICKBACK FINGERS

Anti-kickback fingers (A) are an added safety feature on this planer. They are suspended from a rod that hangs across the front of the cutterhead casting. These fingers should be inspected regularly, ensuring that they swing freely and easily. **SEE FIG 23**.

Fig. 23



A WARNING

DO NOT apply any oil or other lubricant to the antikickback fingers as this can attract dust and restrict the free movement of the fingers. This could result in damage to the planer, the workpiece, or even serious injury to the operator or others in the work area. **DO NOT** use the planer if the anti-kickback fingers are not functioning properly.

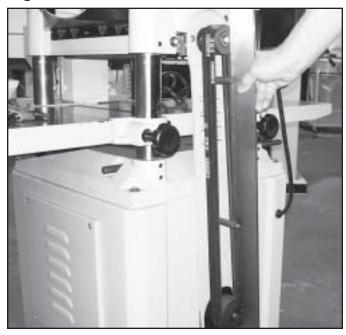
PULLEYS

A WARNING

MAKE CERTAIN THE MACHINE IS DISCONNECT-ED FROM THE POWER SOURCE

 To inspect pulleys, place a steel ruler or other type of straight edge across the pulleys to check the alignment. If the ruler crosses them evenly, the pulleys are aligned correctly. SEE FIG 24.

Fig. 24



- 2. If pulleys are out of alignment, loosen the bolts that hold the motor to the motor mount bracket.
- 3. Adjust the motor position until the pulleys are aligned.
- 4. Retighten all bolts.

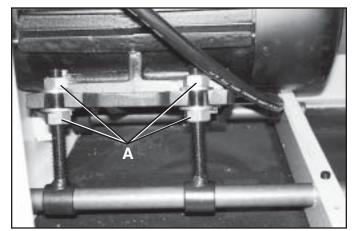
BELTS

A WARNING

MAKE CERTAIN THE MACHINE IS DISCONNECT-ED FROM THE POWER SOURCE

- 1. If the belt is too loose, remove the belt guard using the two threaded knobs.
- 2. To check belt tension, squeeze the Belts at their midpoint with moderate finger pressure. You should be able to deflect each belt no more than 3/4".
- 3. Remove the panel at the back of the machine stand to access the motor assembly.
- The motor pivots on a platform suspended at one end by two threaded adjustment bolts. Adjust the locknuts (A) up or down the shafts until the desired belt deflection is achieved. SEE FIG 25.

Fig. 25

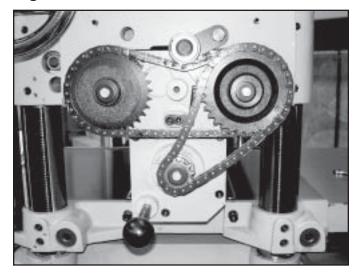


GEAR BOX

The gearbox is located just behind the handwheel on the right side of the planer. The gearbox transfers power from the belt driven cutterhead to the power feed rollers. It has a two speed transmission that is controlled by a lever on the right side of the planer. When it is engaged, the power feed rollers will move the workpiece through the planer at either 16 ft/ min or 20 ft/min. The center position on the lever is neutral.

- 1. To inspect gearbox, loosen the socket head cap screw on the gearbox cover.
- 2. Pull the cover off the roll pins that hold it in place
- 3. Inspect the bolts that hold the sprockets in place
- 4. Check the drive chains to make sure that the retaining clips are in place. **SEE FIG 26**.

Fig. 26



WIXEY ELECTRONIC DIGITAL READOUT

A WARNING

MAKE CERTAIN THE MACHINE IS DISCONNECTED FROM THE POWER SOURCE

For proper adjustment and calibration of the Wixey Electronic Digital Readout, refer to the supplied Wixey Instruction Manual.

OPERATIONS

A WARNING

This planer is a very powerful woodworking machine designed and built for professional use. Because of this, the machine should be operated with significant care and caution. Failure to do so could result in severe injury to the operator or others in the work area. Be sure to read and understand this entire manual, and all safety precautions before operating this machine.

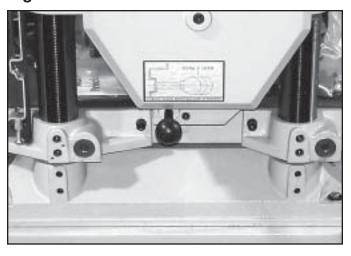
PLANER USE

- Examine all lumber carefully for defects such as twisting, warping, knots, splits, crossgrain, and foreign objects such as nails, staples, etc before running it through the planer. If you are unsure about the quality of the wood, **DO NOT USE IT!!!**
- Use the full width of the planer. Alternate between the left, right, and center when feeding lumber through the planer. Doing so will help extend the life of your blades.
- Be sure to clean off all glue of joined boards before planing.
- This planer is designed for natural wood only. DO NOT use any composites, laminates, particle board, plywood, or plastics in the planer.
- ALWAYS plane with the grain of the wood. NEVER feed end cut or end grained lumber through the planer.
- When making multiple passes through the planer on long stock, use the stock return rollers located on top of the machine to move the workpiece over to the infeed side of the table.
- Wood that has a high moisture content (greater than 20%) or wood exposed to rain or snow will plane poorly and cause excessive wear to the knives, and accelerate rust and corrosion.
- 8. This manual does not cover every aspect of planing wood. You should research alternative publications for more specific requirements. This type of follow up will help provide with a better understanding of the planing process as well as alert you to other precautions to take that may or may not be listed in this manual.

POWER FEED

The power feed features two different feed rates, 16 FPM (feet per minute) and 20 FPM. Adjust only WHILE THE MACHINE IS RUNNING, moving the knob one direction produces the 16FPM setting while moving the opposite direction produces the 20FPM setting. There is also a central position for the knob, which is neutral. SEE FIG 27.

Fig. 27



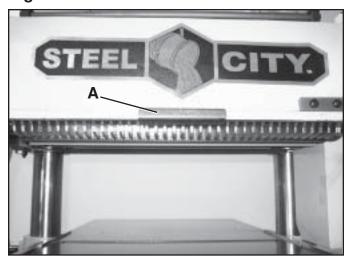
A CAUTION

The feed rate should be set **ONLY** while planer is running, and **BEFORE** the workpiece is inserted into the planer. **DO NOT** attempt to change speeds after the cutting operation has started.

DEPTH LIMITER

This planer is equipped with a depth limiter (A), located at the bottom of the cutterhead casting, which controls the maximum depth of cut to 1/8". **SEE FIG 28.** With the limiter installed, you will not be able to cut more than 1/8" in a single pass. While it is possible to plane as much as 1/8" at a time, it is not recommended. Taking more shallow passes will improve the quality of your work as well as extend the life of your planer.

Fig. 28



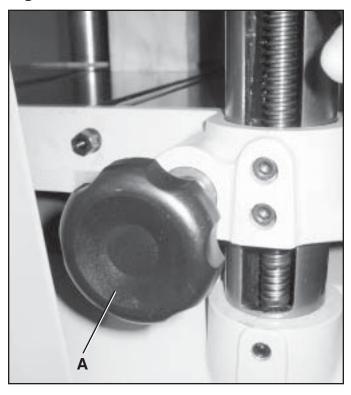
A CAUTION

To avoid mechanical damage to the planer, do not remove the depth limiter.

TABLE LOCKS

Before attempting to adjust the table height, loosen the two black knobs (A) on the left side of the table. Once the table height is adjusted correctly, retighten the two knobs. **SEE FIG 29**.

Fig. 29



HANDWHEEL

Turning the handwheel clockwise will raise the main table while turning it counterclockwise will lower the table. Crank the handwheel to raise or lower the table according to the desired workpiece thickness.

Fig. 30



WIXEY ELECTRONIC DIGITAL READOUT

A WARNING

MAKE CERTAIN THE MACHINE IS DISCONNECT-ED FROM THE POWER SOURCE

For proper operation of the Wixey Electronic Digital Readout, refer to the supplied Wixey Instruction Manual.

TRIAL RUN

Once all the assembly is complete and the adjustments are complete, it's time for a test run.

- 1. Turn on the power supply
- Press the start button. Keep your hand near the switch, ready to shut the machine down quickly in case anything does not sound right or if there appears to be a problem.
- The planer should run smoothly with little to no vibration or rubbing noises. If any strange noise is noticed, shut down machine and recheck all adjustments.

A WARNING

Do not attempt to make adjustments while the machine is running. Make certain the machine is disconnected from the power source and the machine has come to a complete stop.

A WARNING



ALWAYS wear eye protection. Any machine can throw debris into the eyes during operations which could cause severe and permanent eye damage. Everyday eyeglasses are **NOT** safety glasses. **ALWAYS** wear Safety Goggles (that comply with ANSI standard Z87.1) when operating power tools.

MAINTENANCE

GENERAL

Make a habit of inspecting your planer each time you use it. Check the following conditions and repair or replace as necessary.

- 1. Worn Switch
- 2. Damaged cords and/or plugs
- 3. Damaged belts
- 4. Loose bolts
- 5. Any other condition that could hamper the safe and proper operation of the machine

TABLE

The table and other non-painted surfaces on the planer should be protected against rust. Be sure to wipe the table clean after every use. This will help prevent moisture from the wood condensing on the bare metal table. It is also a good idea to use an automotive paste wax on the bare metal surfaces. This will help keep moisture from the table and hence help keep it from rusting. Over time, some rust may still develop on the table. To get rid of the rust, use some WD-40 and a fine steel wool.

KNIVES

Make sure that your knives are sharp and properly adjusted before each use. The sharpness and proper setting of the knives is essential to good planing. Refer back to the section on knives in this manual for detailed instructions.

LUBRICATION

BEARINGS

Your planer is equipped with factory sealed bearings requiring no lubrication during its lifetime. If the bearing should fail, the planer will produce a pronounced rumble that will get even louder under load. If it is allowed to get worse, overheating can occur and eventually the bearing can seize up, possibly causing damage to other parts of the machine.

WORM GEAR

The worm gear should be inspected monthly and lubricated as needed. Remove the worm gear box to inspect. See Ref. 311 in the parts diagram for location.

CHAIN

The table height adjustment chain should be inspected regularly and lubricated as needed. Lubricate with a general purpose grease.

GEAR BOX

Gear box oil should be drained after the first 20 hours of operation. Replace with 80W-90 gear oil for use in room temperature shops and 50W gear oil for unheated winter shops. Inspect levels periodically and change yearly for occasional use, more frequently with heavy use.

To inspect oil level,

- Remove fill plug using the short end of a hex wrench, dip the wrench inside the fill hole and rotate so the long end of the wrench is parallel to the table.
- 2. Remove the wrench. If the end of the hex wrench is coated with oil, then the gearbox level is okay.
- 3. If the end of the hex wrench is not coated with oil, then you need to add more oil.
- 4. Replace fill plug when finished.

DRIVE CHAIN

The drive chain should be inspected and lubricated monthly using a general purpose grease.

FEED ROLLER

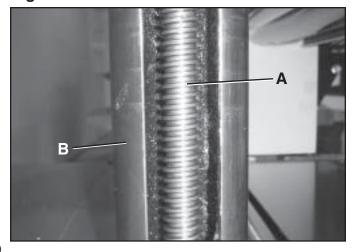
The infeed / outfeed pressure setscrews double as the lubrication ports for the rollers. Add 1-2 drops of light machine oil to all ports before every use. Daily lubrication of feed rollers is **CRUCIAL** to the operation of the planer. Lubricate before start up.

LEAD SCREWS AND COLUMNS

The four columns should be lubricated weekly with a light oil. The four lead screws (A) should be lubricated with general purpose grease once a month

The lead screws and columns (B) should be wiped of any grease and dust build up at least once a week. They should be lubricated with light machine oil. **SEE FIG 31.**

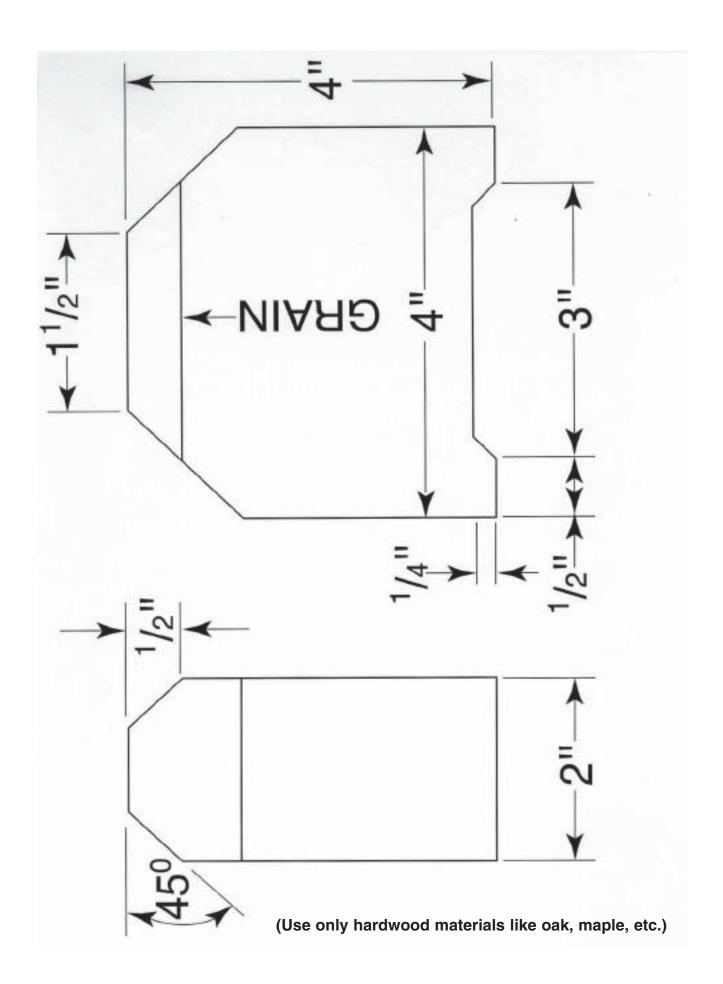
Fig. 31



TROUBLESHOOTING GUIDE

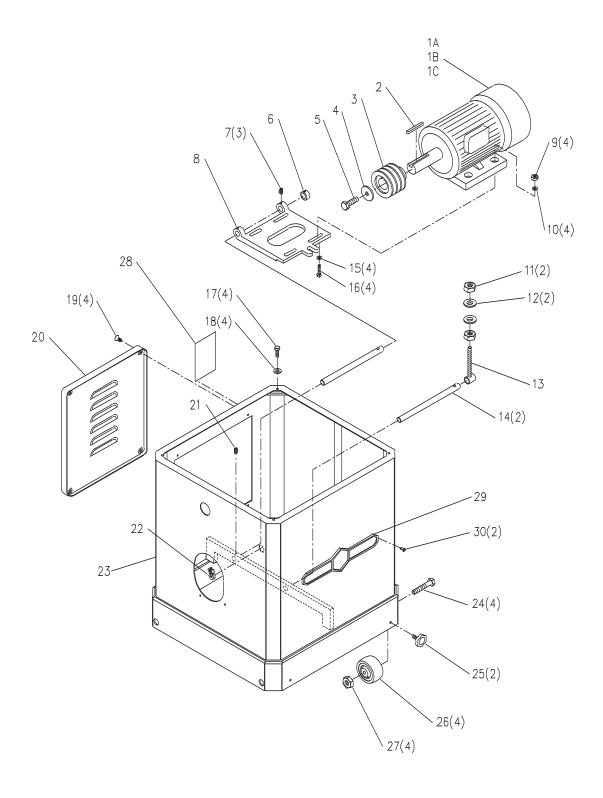
This section covers the most common processing problems encountered in planing and what to do about them. Do not make any adjustments until planer is unplugged and moving parts have come to a complete stop.

PROBLEM	LIKELY CAUSE(S)	SOLUTION
Motor will not start.	Low voltage. Open circuit in motor or loose connections.	Check power line for proper voltage. Inspect all lead connections on motor for loose or open connections.
Motor will not start; fuses or circuit breakers blow.	 Short circuit in line cord or plug. Short circuit in motor or loose connections. Incorrect fuses or circuit breakers in power line. 	Inspect cord or plug for damaged insulation and shorted wires. Inspect all connections on motor for loose or shorted terminals or worn insulation. Install correct fuses or circuit breakers.
Motor overheats.	Motor overloaded. Air circulation through the motor restricted.	Reduce load on motor. Clean out motor to provide normal air circulation.
Motor stalls (resulting in blown fuses or tripped circuit).	 Short circuit in motor or loose connections. Low voltage. Incorrect fuses or circuit breakers in power line. Motor overloaded. 	Inspect connections on motor for loose or shorted terminals or worn insulation. Correct the low voltage conditions. Install correct fuses or circuit breakers. Reduce load on motor.
Machine slows when operating.	Feed rate too fast. Depth of cut too great.	Reduce speed rate. Reduce depth of cut.
Loud, repetitious noise coming from machine.	 Pulley setscrews or keys are missing or loose. Motor fan is hitting the cover. V-belt is defective. 	 Inspect keys and setscrews. Replace or tighten if necessary. Tighten fan or shim cover. Replace V-belt.
Machine is loud when cutting. Overheats or bogs down in the cut.	Excessive depth of cut. Knives are dull.	Decrease depth of cut. Sharpen or replace knives.
Infeed roller marks are left on the workpiece.	Depth of cut too shallow.	Increase depth of cut.
Outfeed roller marks are left on right side of workpiece.	Too much spring tension on feed roller.	Refer to Feed Roller Pressure section for adjustment.
Cannot control snipe.	Long or heavy board sags as it enters and exits.	Lift up on unsupported end of board as it enters and exits cutterhead.
Chip buildup on outfeed roller.	Chips working their way back under the chip deflector.	Lay duct tape over the mounting bolts along the outside edge to seal any possible gaps.
Machine howls on startup.	Chip deflector too close to the cutterhead.	Move chip deflector back 1/8" to 1/4" from the cutterhead.
Table moves down while cutting.	Knives dull. Table lock knobs are loose.	Replace knives. Tighten lock knobs.

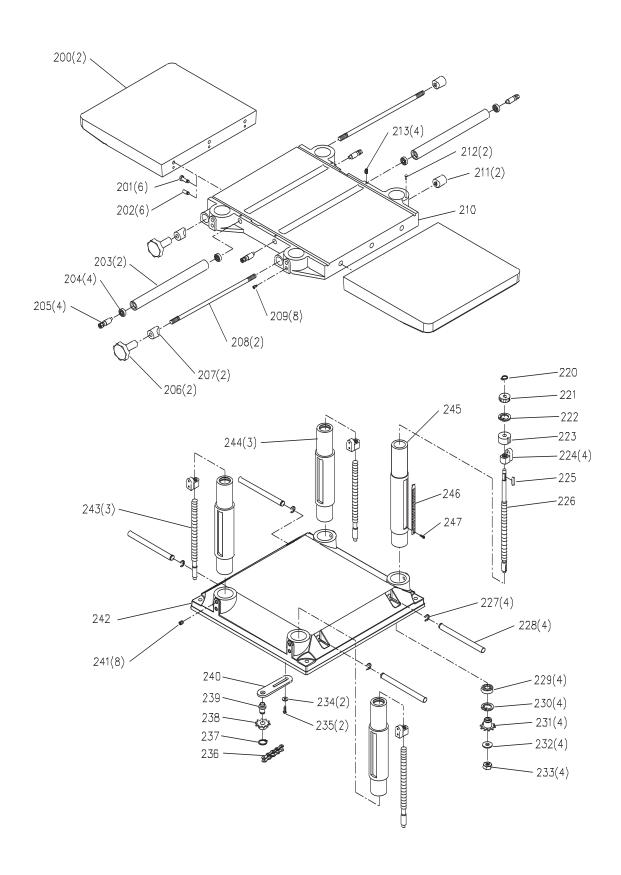


♦ NOTES ♦

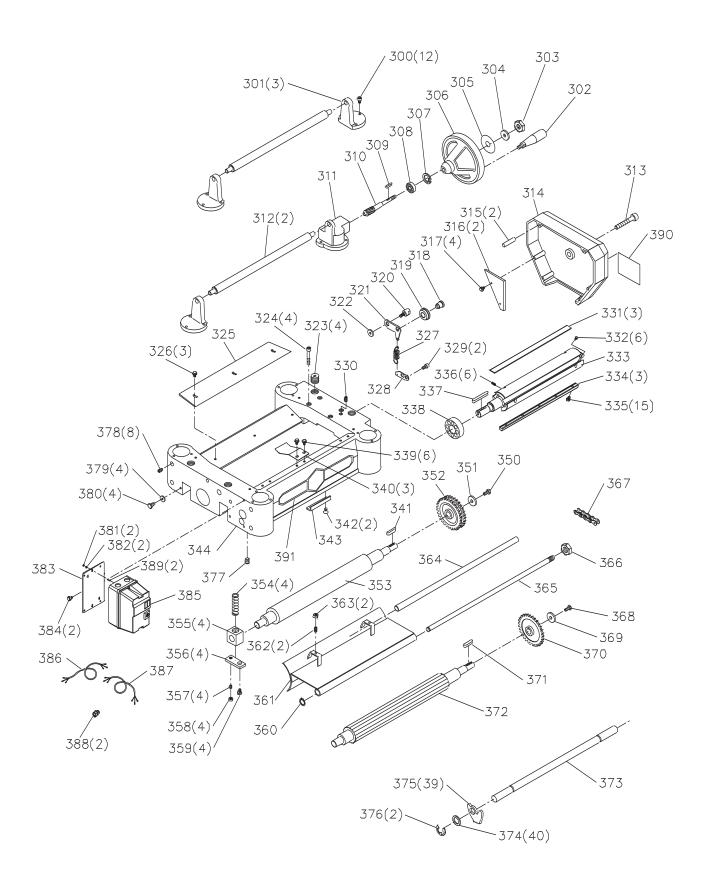
PARTS



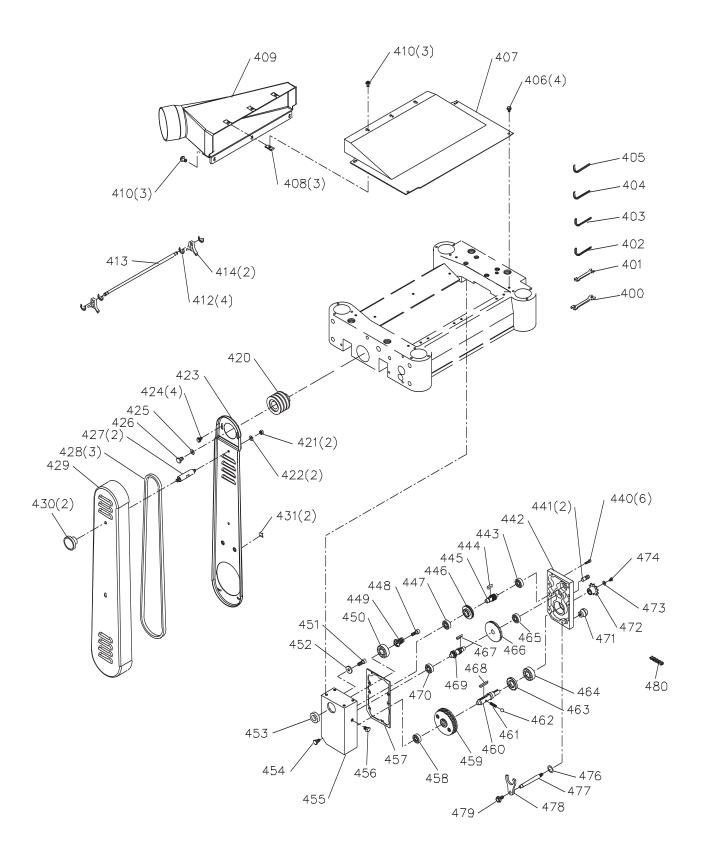
KEY NO.	PART NO.	DESCRIPTION	QTY.	KEY NO.	PART NO.	DESCRIPTION	QTY.
1A	OR70405	MOTOR (3HP, 15AMP, 230V, 1PH)	1	15	OR90311	M8 FLAT WASHER	4
1B	OR70354	MOTOR SPEC PLATE	1	16	OR90308	M8 x 30mm HEX HEAD SCR	4
1C	OR94006	CAPACITOR	1	17	OR94008	M8 x 45mm HEX HEAD SCR	4
2	OR90219	5mm x 5mm x 30mm KEY	1	18	OR90311	M8 FLAT WASHER	4
3	OR70936	MOTOR PULLEY	1	19	OR94009	M6 x 20mm FLAT HEAD SCREW	4
4	OR90311	M8 FLAT WASHER	2	20	OR70941	STAND ACCESS PANEL	1
5	OR93917	M8 x 20mm HEX HEAD SCREW	1	21	OR90306	M6 x 12mm SOC HD SET SCR	1
6	OR70937	SPACER	1	22	OR94010	STRAIN RELIEF	1
7	OR90306	M6 x 12mm SOC HD SET SCR	3	23	OR70942	ENCLOSED STAND	1
8	OR70938	MOTOR PLATE	1	24	OR94011	3/8 - 16 x 2 1/2 HEX HEAD SCREW	4
9	OR90307	M8 HEX NUT	4	25	OR94012	KNOB	2
10	OR90311	M8 FLAT WASHER	4	26	OR94013	WHEEL	4
11	OR90228	M10 HEX NUT	2	27	OR90369	3/8 - 16 HEX NUT	4
12	OR94007	FLAT WASHER 13mm x 28 mm x 3mm	2	28	OR70309	SPEC PLATE	1
13	OR70939	MOTOR MOUNT TENSION SHAFT ASSEMBLY	1	29	OR70484	NAMEPLATE	1
14	OR70940	MOTOR MOUNTING SHAFT	2	30	OR93823	RIVET	4



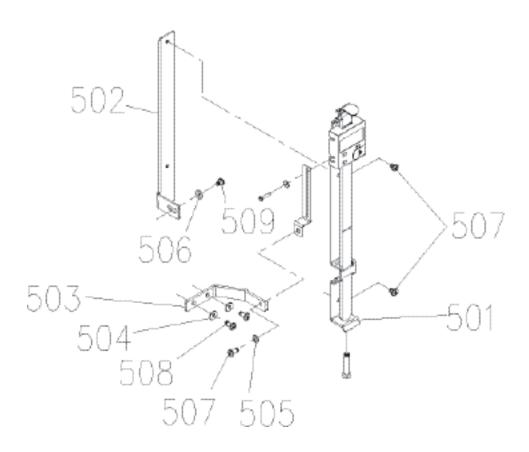
KEY NO.	PART NO.	DESCRIPTION	QTY.	KEY NO.	PART NO.	DESCRIPTION	QTY.
200	OR70943	EXTENSION WING	2	227	OR94020	E-RING	4
201	OR91752	M8 x 25mm HEX HEAD SCREW	6	228	OR70954	SHAFT	4
202	OR91821	M8 x 20mm SOC HD SET SCR	6	229	OR94021	BALL BEARING (6202Z)	4
203	OR70944	BED ROLLER	2	230	OR94022	RETAINING RING	4
204	OR94014	BALL BEARING (608Z)	4	231	OR70955	CHAIN SPROCKET	4
205	OR70945	ECCENTRIC SHAFT	4	232	OR90230	M10 FLAT WASHER	4
206	OR94015	KNOB	2	233	OR90228	M10 HEX NUT	4
207	OR70946	COLUMN LOCK BUSHING	2	234	OR90311	M8 FLAT WASHER	2
208	OR70947	BED ROLLER SHAFT	2	235	OR91752	M8 x 25mm HEX HEAD SCREW	2
209	OR93372	M6 x 12mm SOC HD CAP SCREW	8	236	OR94023	CHAIN	1
210	OR70948	BED CASTING	1	237	OR94024	RETAINING RING	1
211	OR70949	COLUMN LOCK NUT	2	238	OR70956	CHAIN TENSIONER SPROCKET	1
212	OR94016	2mm x 5mm Round Head Rivet	2	239	OR70957	SPROCKET SHAFT	1
213	OR90306	M6 x 12mm SOC HD SET SCR	4	240	OR70958	CHAIN TENSIONER BRACKET	1
220	OR94017	RETAINING RING	1	241	OR93524	M10 x 12mm SOC SET SCREW	8
221	OR70950	WORM GEAR	1	242	OR70959	BASE CASTING	1
222	OR94018	RETAINING RING	1	243	OR70960	COLUMN SHAFT	3
223	OR70951	BUSHING	1	244	OR70961	COLUMN	3
224	OR70952	COLUMN NUT	4	245	OR70962	MAIN COLUMN	1
225	OR94019	4mm x 4mm x 10mm KEY	1	246	OR70963	SCALE	1
226	OR70953	ELEVATING SCREW	1	247	OR90057	M3 x 6mm PAN HD SCR	1



000 0783932 Ms x 12mm SOC HO CAP SCREW 12 344 0787084 HEAD CASTING 1 1 1 1 1 1 1 1 1	KEY NO.	PART NO.	DESCRIPTION	QTY.	KEY NO.	PART NO.	DESCRIPTION	QTY.
	300	OR93372	M6 x 12mm SOC HD CAP SCREW	12	344	OR70984	HEAD CASTING	1
930 OR982288 MIO FLAT WASHER 4 352 OR709865 OUTFEED ROLLER SPROCKET 1 305 OR70966 RAISE I LOWER LABEL 1 364 OR30400 SPRING 4 306 OR70967 HAND WHEEL 1 365 OR70987 BUSHING 4 307 OR94026 BETAINING RING 1 356 OR70987 BETAINING RING 4 308 OR94026 BETAINING RING 1 357 OR93031 MS x 16mm SOC HD SET SCREW 4 310 OR79098 WORM SHAFT 1 359 OR90235 MS x 16mm SOC HD SET SCREW 4 311 OR79099 ROLER GELWATING SCREW GEARBOX 1 350 OR94041 MS x 26mm SOC HD SET SCREW 1 313 OR79097 ROLLER 2 361 OR70998 CHIP BREAKER 1 314 OR70979 SIDE COVER 1 362 OR90235 MS 12mm SOC HD SET SCR 1 315 OR70997 SIDE	301	OR70964	ROLLER BRACKET	3	350	OR94038	M6 x 16mm HEX HEAD SCREW	1
ORRORATION OR	302	OR70965	HANDLE	1	351	OR94039	FLAT WASHER 6.2mm x 22mm x 3mm	1
OR70966 RAISE / LOWER LABEL	303	OR90228	M10 HEX NUT	1	352	OR70985	OUTFEED ROLLER SPROCKET	1
905 CR709675 HAND WHEEL 1 355 CR70887 BUSHING 4 307 CR94025 BEALL BEARING (82002) 1 356 CR709891 Max Inferm SCO: HD SET SCREW 4 308 CR94026 BALL BEARING (82002) 1 358 CR90325 M6 HEX NUT 4 309 CR84019 44mm x 4mm x 1mm KEY 1 358 CR90325 M6 HEX NUT 4 311 CR70968 WORM SHAFT 1 359 CR93917 M8 COMM HEX ELAD SCREW 4 311 CR70970 BOLLER 2 361 CH709899 ELEVATING SCREW GEARBOX 1 360 CR90030 M8 CEARM SEARCH 1 312 CR70971 M8 45mm SOC HD CAP SCR 1 362 CR90306 M6 VEARM SEARCH 2 314 OR70972 M8 4 45mm SOC HD CAP SCR 1 362 CR90335 M6 HEX NUT 2 315 OR70972 SIDIE COVER 2 365 CR70991 SHAFT 1	304	OR90230	M10 FLAT WASHER	4	353	OR70986	OUTFEED ROLLER	1
307 CR94025 RETAINING RING 1 366 OR70888 RETAINER PLATE 4 308 CR94019 ABLL BEARING (62002) 1 357 CR93051 Me x 16mm SOC HD SET SCREW 4 310 CR94019 Amm x 4mm x 10mm KEY 1 359 OR93025 ME KE NUT 4 311 CR70988 WORM SHAFT 1 359 OR93017 Me X 20mm HEX HEAD SCREW 4 312 CR70970 ROLLER 2 361 CR70999 CHIZ BERAKER 1 313 OR94027 MS 45mm SOC HD CAP SCR 1 362 OR90306 Ms 21mm SOC HD SET SCR 2 315 OR94028 6mm x 20mm SPRING PIN 2 365 OR70990 SHAFT 1 316 OR70977 SIDE COVER GUARD 2 365 OR70990 SHAFT 1 317 OR94028 MS 12mm HEX HEAD SERRATED SCREW 4 366 OR9020 ME 1EXX NUT 1 318 OR70975 CHAIN TENSIONER	305	OR70966	RAISE / LOWER LABEL	1	354	OR94040	SPRING	4
1	306	OR70967	HAND WHEEL	1	355	OR70987	BUSHING	4
309 OR94019 4mm x 4mm x 10mm KEY 1 358 OR90255 M6 HEX NUT 4 310 OR70968 WORM SHAFT 1 359 OR89017 M8 x 20mm HEX HEAD SCREW 4 311 OR70969 ELEWATINIS SCREW GEARBOX 1 360 OR89027 M6 x 12mm SOC HD SCR 1 312 OR70970 ROLLER 2 361 OR709896 CHIP BREAKER 1 313 OR94027 M8 x 45mm SOC HD CAP SCR 1 363 OR90095 M6 x 12mm SOC HD SET SCR 2 315 OR94028 6mm x 20mm SPRING PIN 2 365 OR70991 SHAFT 1 316 OR70972 SIDE COVER GUARD 2 365 OR70991 SHAFT 1 317 OR84028 M6 x 12mm HEX HEAD SERRATED SCREW 4 366 OR90290 M12 HEX NUT 1 318 OR70973 CHAIN TENSIONER 1 366 OR90290 M12 HEX NUT 1 319 OR70975 SHAFT <	307	OR94025	RETAINING RING	1	356	OR70988	RETAINER PLATE	4
310 OR70968 WORM SHAFT	308	OR94026	BALL BEARING (6200Z)	1	357	OR93951	M6 x 16mm SOC HD SET SCREW	4
1	309	OR94019	4mm x 4mm x 10mm KEY	1	358	OR90235	M6 HEX NUT	4
312 OR70970 ROLLER 2 361 OR70899 CHIP BREAKER 1 313 OR94027 M8 x 45mm SOC HD CAP SCR 1 362 OR90036 M6 x 12mm SOC HD SET SCR 2 2 314 OR70971 SIDE COVER 1 363 OR90035 M6 HEX NUT 2 2 315 OR94028 M6 HEX NUT 1 316 OR70972 SIDE COVER QUARD 2 366 OR70990 SHAFT 1 316 OR70972 SIDE COVER QUARD 2 366 OR70991 SHAFT 1 316 OR70972 M6 x 12mm HEX HEAD SCRRATED SCREW 4 366 OR90280 OR90280 M6 x 12mm HEX HEAD SCRRATED SCREW 4 366 OR90280 M6 x 12mm HEX HEAD SCREW 1 367 OR94042 CHAIN TENSIONER SHAFT 1 368 OR94038 M6 x 16mm HEX HEAD SCREW 1 316 OR70975 SHAFT 1 368 OR94038 M6 x 16mm HEX HEAD SCREW 1 317 OR94039 SREW 3 OR70975 SHAFT 3 369 OR94043 M6 x 16mm HEX HEAD SCREW 1 320 OR70975 SHAFT 3 369 OR94043 M6 x 16mm HEX HEAD SCREW 1 320 OR70975 SHAFT 3 369 OR94043 M6 x 16mm HEX HEAD SCREW 1 320 OR70975 SHAFT 3 369 OR94043 M6 x 16mm HEX HEAD SCREW 1 320 OR70975 OR70975 OR90975 OR70975 OR7	310	OR70968	WORM SHAFT	1	359	OR93917	M8 x 20mm HEX HEAD SCREW	4
313 OR94027 M8 x 45mm SOC HD CAP SCR 1 362 OR90306 M6 x 12mm SOC HD SET SCR 2 314 OR70971 SIDE COVER 1 363 OR90235 M6 HEX NUT 2 315 OR94028 6mm x 20mm SPRING PIN 2 364 OR70990 SHAFT 1 316 OR70972 SIDE COVER GUARD 2 365 OR70991 SHAFT 1 317 OR94029 M6 x 12mm HEX HEAD SERRATED SCREW 4 366 OR90280 M12 HEX NUT 1 318 OR70974 CHAIN TENSIONER 1 367 OR94042 CHAIN CHAIN 1 320 OR70975 SHAFT 1 369 OR94043 FLAT WASHER 6.2mm x 22mm x 3mm 1 321 OR70975 SHAFT 1 370 OR70992 INFEED ROLLER SPROCKET 1 322 OR90311 M8 LAT WASHER 1 371 OR94092 INFEED ROLLER SPROCKET 1 322 OR90313 M8 x 50mm SOC	311	OR70969	ELEVATING SCREW GEARBOX	1	360	OR94041	RETAINING RING	1
314 OR70971 SIDE COVER 1 363 OR90235 M6 HEX NUT 2 315 OR94028 6mm x 20mm SPRING PIN 2 364 OR70990 SHAFT 1 316 OR70972 SIDE COVER GUARD 2 365 OR70990 M12 HEX NUT 1 317 OR94029 M6 x 12mm HEX HEAD SERRATED SCREW 4 366 OR90280 M12 HEX NUT 1 318 OR70974 CHAIN TENSIONER SHAFT 1 367 OR94042 CHAIN 1 319 OR70975 SHAFT 1 369 OR94043 FLAT WASHER 6 2mm x 22mm x 3mm 1 322 OR90976 SHAET 1 370 OR70992 INFEED ROLLER SPROCKET 1 322 OR90971 M8 FLAT WASHER 1 371 OR70992 INFEED ROLLER SPROCKET 1 323 OR90931 M8 FLAT WASHER 1 372 OR90932 INFEED ROLLER SPROCKET 1 324 OR90941 M8 × 12mm RAM 1 <td>312</td> <td>OR70970</td> <td>ROLLER</td> <td>2</td> <td>361</td> <td>OR70989</td> <td>CHIP BREAKER</td> <td>1</td>	312	OR70970	ROLLER	2	361	OR70989	CHIP BREAKER	1
315 OR94028 6mm x 20mm SPRING PIN 2 364 OR70990 SHAFT 1 316 OR70972 SIDE COVER GUARD 2 365 OR70991 SHAFT 1 317 OR94029 M6 x 12mm HEX HEAD SERRATED SCREW 4 366 OR70970 CHAIN TENSIONER SHAFT 1 367 OR94042 CHAIN TENSIONER SHAFT 1 369 OR94032 CHAIN TENSIONER SHAFT 1 368 OR94038 M6 x 16mm HEX HEAD SCREW 1 320 OR70975 SHAFT 1 369 OR94043 FLAT WASHER 6.2mm x 22mm x 2mm x 3mm 1 321 OR70976 BRACKET 1 370 OR70993 INFEED ROLLER SPROCKET 1 322 OR90311 M8 FLAT WASHER 1 371 OR70993 INFEED ROLLER 1 323 OR940303 SCREW 4 372 OR70993 INFEED ROLLER 1 324 OR940303 SCREW 4 373 OR70993 INFEED ROLLER 1	313	OR94027	M8 x 45mm SOC HD CAP SCR	1	362	OR90306	M6 x 12mm SOC HD SET SCR	2
316 OR70972 SIDE COVER GUARD 2 365 OR70991 SHAFT 1 1 1 1 1 1 1 1 1	314	OR70971	SIDE COVER	1	363	OR90235	M6 HEX NUT	2
17	315	OR94028	6mm x 20mm SPRING PIN	2	364	OR70990	SHAFT	1
18	316	OR70972	SIDE COVER GUARD	2	365	OR70991	SHAFT	1
319	317	OR94029	M6 x 12mm HEX HEAD SERRATED SCREW	4	366	OR90280	M12 HEX NUT	1
320 OR70975 SHAFT 1 369 OR94043 FLAT WASHER 6.2mm x 22mm x 3mm 1 321 OR70976 BRACKET 1 370 OR70992 INFEED ROLLER SPROCKET 1 322 OR90311 M8 FLAT WASHER 1 371 OR94037 5mm x 5mm x 22mm KEY 1 323 OR94030 SCREW 4 372 OR70993 INFEED ROLLER 1 324 OR90249 M8 x 50mm SOC HD CAP SCREW 4 373 OR70994 SHAFT 1 325 OR70977 CHIP DEFLECTOR 1 374 OR70995 SPACER 40 326 OR94029 M6 x 12mm HEX HEAD SERRATED SCREW 3 375 OR70996 ANTI-KICKBACK FINGER 39 327 OR94031 SPRING HOOK PLATE 1 376 OR94044 E-Ring 2 328 OR70978 SPRING HOOK PLATE 1 377 OR939313 Ms x 12mm SOC HD SET SCREW 8 330 OR39351 M6 x 16mm SOC SET SCREW	318	OR70974	CHAIN TENSIONER SHAFT	1	367	OR94042	CHAIN	1
321 OR70976 BRACKET 1 370 OR70992 INFEED ROLLER SPROCKET 1 322 OR90311 M8 FLAT WASHER 1 371 OR94037 5mm x 5mm x 22mm KEY 1 323 OR94030 SCREW 4 372 OR70993 INFEED ROLLER 1 324 OR90249 M8 x 50mm SOC HD CAP SCREW 4 373 OR70994 SHAFT 1 325 OR70977 CHIP DEFLECTOR 1 374 OR70995 SPACER 40 326 OR94029 M6 x 12mm HEX HEAD SERRATED SCREW 3 375 OR70996 ANTI-KICKBACK FINGER 39 327 OR94031 SPRING 1 376 OR94044 E-Ring 2 328 OR70978 SPRING HOOK PLATE 1 377 OR93913 M8 x 12mm SOC HD SET SCR 1 329 OR94032 M6 x 16mm SOC SET SCREW 2 378 OR93524 M10 x 12mm SOC HD SET SCREW 8 331 OR70999 KNIFEE LOCKING BAR <td>319</td> <td>OR70973</td> <td>CHAIN TENSIONER</td> <td>1</td> <td>368</td> <td>OR94038</td> <td>M6 x 16mm HEX HEAD SCREW</td> <td>1</td>	319	OR70973	CHAIN TENSIONER	1	368	OR94038	M6 x 16mm HEX HEAD SCREW	1
322 OR 90311 M8 FLAT WASHER 1 371 OR 94037 5mm x 5mm x 2mm KEY 1 323 OR 94030 SCREW 4 372 OR 70993 INFEED ROLLER 1 324 OR 90249 M8 x 50mm SOC HD CAP SCREW 4 373 OR 70994 SHAFT 1 325 OR 94029 M6 x 12mm HEX HEAD SERRATED SCREW 3 375 OR 70996 ANTI-KICKBACK FINGER 39 326 OR 94029 M6 x 12mm HEX HEAD SERRATED SCREW 3 375 OR 94096 ANTI-KICKBACK FINGER 39 327 OR 94031 SPRING HOOK PLATE 1 376 OR 940404 E-Ring 2 328 OR 70978 SPRING HOOK PLATE 1 377 OR 93913 M8 x 12mm SOC HD SET SCREW 1 330 OR 94032 M6 x 16mm SOC SET SCREW 1 379 OR 90311 M8 FLAT WASHER 4 331 OR 70979 KNIFE 3 380 OR 90333 M6 x 12mm HEX HEAD SCREW 4 332	320	OR70975	SHAFT	1	369	OR94043	FLAT WASHER 6.2mm x 22mm x 3mm	1
323 OR94030 SCREW 4 372 OR70993 INFEED ROLLER 1 324 OR90249 M8 x 50mm SOC HD CAP SCREW 4 373 OR70994 SHAFT 1 325 OR70977 CHIP DEFLECTOR 1 374 OR70995 SPACER 40 326 OR94029 M6 x 12mm HEX HEAD SERRATED SCREW 3 375 OR70996 ANTI-KICKBACK FINGER 39 327 OR94031 SPRING 1 376 OR94044 E-Ring 2 328 OR70978 SPRING HOOK PLATE 1 377 OR939313 M8 x 12mm SOC HD SET SCR 1 329 OR94032 M6 x 10mm SOC SET SCREW 2 378 OR93524 M10 x 12mm SOC HD SET SCREW 8 330 OR93951 M6 x 16mm SOC SET SCREW 1 379 OR90311 M8 FLAT WASHER 4 331 OR70979 KNIFE 3 380 OR90333 M6 x 12mm HEX HEAD SCREW 4 332 OR90863 M5 x 12mm PAN HEAD	321	OR70976	BRACKET	1	370	OR70992	INFEED ROLLER SPROCKET	1
324 OR90249 M8 x 50mm SOC HD CAP SCREW 4 373 OR70994 SHAFT 1 325 OR70977 CHIP DEFLECTOR 1 374 OR70995 SPACER 40 326 OR94029 M6 x 12mm HEX HEAD SERRATED SCREW 3 375 OR70996 ANTI-KICKBACK FINGER 39 327 OR94031 SPRING 1 376 OR94044 E-Ring 2 328 OR70978 SPRING HOOK PLATE 1 377 OR939313 M8 x 12mm SOC HD SCT SCREW 1 330 OR939351 M6 x 10mm SOC SET SCREW 2 378 OR93311 M8 FLAT WASHER 4 331 OR70979 KNIFE 3 380 OR90331 M6 x 12mm HEX HEAD SCREW 4 332 OR90863 M5 x 12mm PAN HEAD SCR 6 381 OR90374 10-24 HEX NUT 2 334 OR70981 KNIFE LOCKING BAR 3 383 OR70997 SWITCH MOUNTING PLATE 1 335 OR94033 HEX SCREW<	322	OR90311	M8 FLAT WASHER	1	371	OR94037	5mm x 5mm x 22mm KEY	1
325 OR70977 CHIP DEFLECTOR 1 374 OR70995 SPACER 40 326 OR94029 M6 x 12mm HEX HEAD SERRATED SCREW 3 375 OR70996 ANTI-KICKBACK FINGER 39 327 OR94031 SPRING 1 376 OR94044 E-Ring 2 328 OR70978 SPRING HOOK PLATE 1 377 OR93913 M8 x 12mm SOC HD SET SCR 1 329 OR94032 M6 x 10mm SOC HD CAP SCREW 2 378 OR93524 M10 x 12mm SOC HD SET SCREW 8 330 OR93951 M6 x 16mm SOC SET SCREW 1 379 OR90311 M8 FLAT WASHER 4 331 OR70979 KNIFE 3 380 OR90333 M6 x 12mm HEX HEAD SCREW 4 332 OR90863 M5 x 12mm PAN HEAD SCR 6 381 OR90033 #10 EXTERNAL TOOTH WASHER 2 334 OR70980 CUTTERHEAD 1 382 OR90053 #10 EXTERNAL TOOTH WASHER 1 335 OR94033<	323	OR94030	SCREW	4	372	OR70993	INFEED ROLLER	1
326 OR94029 M6 x 12mm HEX HEAD SERRATED SCREW 3 375 OR70996 ANTI-KICKBACK FINGER 39 327 OR94031 SPRING 1 376 OR94044 E-Ring 2 328 OR70978 SPRING HOOK PLATE 1 377 OR93913 M8 x 12mm SOC HD SET SCREW 1 329 OR94032 M6 x 10mm SOC HD CAP SCREW 2 378 OR93524 M10 x 12mm SOC HD SET SCREW 8 330 OR93951 M6 x 16mm SOC SET SCREW 1 379 OR90311 M8 FLAT WASHER 4 331 OR70979 KNIFE 3 380 OR90333 M6 x 12mm HEX HEAD SCREW 4 332 OR90863 M5 x 12mm PAN HEAD SCR 6 381 OR90374 10-24 HEX NUT 2 334 OR70980 CUTTERHEAD 1 382 OR90053 #10 EXTERNAL TOOTH WASHER 2 335 OR94033 HEX SCREW 15 384 OR94029 M6 x 12mm HEX HEAD SERRATED SCREW 2 336	324	OR90249	M8 x 50mm SOC HD CAP SCREW	4	373	OR70994	SHAFT	1
327 OR94031 SPRING 1 376 OR94044 E-Ring 2 328 OR70978 SPRING HOOK PLATE 1 377 OR93913 M8 x 12mm SOC HD SET SCR 1 329 OR94032 M6 x 10mm SOC HD CAP SCREW 2 378 OR93524 M10 x 12mm SOC HD SET SCREW 8 330 OR93951 M6 x 16mm SOC SET SCREW 1 379 OR90311 M8 FLAT WASHER 4 331 OR70979 KNIFE 3 380 OR90333 M6 x 12mm HEX HEAD SCREW 4 332 OR90863 M5 x 12mm PAN HEAD SCR 6 381 OR90374 10-24 HEX NUT 2 334 OR70980 CUTTERHEAD 1 382 OR90053 #10 EXTERNAL TOOTH WASHER 2 335 OR94033 HEX SCREW 15 384 OR94029 M6 x 12mm HEX HEAD SCREW 2 336 OR94034 SPRING 6 385 OR70998 MAGNETIC SWITCH (3HP,220V,1PH) 1 337 OR94035	325	OR70977	CHIP DEFLECTOR	1	374	OR70995	SPACER	40
328 OR70978 SPRING HOOK PLATE 1 377 OR93913 M8 x 12mm SOC HD SET SCR 1 329 OR94032 M6 x 10mm SOC HD CAP SCREW 2 378 OR93524 M10 x 12mm SOC HD SET SCREW 8 330 OR93951 M6 x 16mm SOC SET SCREW 1 379 OR90311 M8 FLAT WASHER 4 331 OR70979 KNIFE 3 380 OR90333 M6 x 12mm HEX HEAD SCREW 4 332 OR90863 M5 x 12mm PAN HEAD SCR 6 381 OR90374 10-24 HEX NUT 2 333 OR70980 CUTTERHEAD 1 382 OR90053 #10 EXTERNAL TOOTH WASHER 2 334 OR70981 KNIFE LOCKING BAR 3 383 OR70997 SWITCH MOUNTING PLATE 1 335 OR94033 HEX SCREW 15 384 OR94029 M6 x 12mm HEX HEAD SCREW 2 336 OR94034 SPRING 6 385 OR70998 MAGNETIC SWITCH (3HP,220V,1PH) 1 337 <td< td=""><td>326</td><td>OR94029</td><td>M6 x 12mm HEX HEAD SERRATED SCREW</td><td>3</td><td>375</td><td>OR70996</td><td>ANTI-KICKBACK FINGER</td><td>39</td></td<>	326	OR94029	M6 x 12mm HEX HEAD SERRATED SCREW	3	375	OR70996	ANTI-KICKBACK FINGER	39
329 OR94032 M6 x 10mm SOC HD CAP SCREW 2 378 OR93524 M10 x 12mm SOC HD SET SCREW 8 330 OR93951 M6 x 16mm SOC SET SCREW 1 379 OR90311 M8 FLAT WASHER 4 331 OR70979 KNIFE 3 380 OR90333 M6 x 12mm HEX HEAD SCREW 4 332 OR90863 M5 x 12mm PAN HEAD SCR 6 381 OR90374 10-24 HEX NUT 2 333 OR70980 CUTTERHEAD 1 382 OR90053 #10 EXTERNAL TOOTH WASHER 2 334 OR70981 KNIFE LOCKING BAR 3 383 OR70997 SWITCH MOUNTING PLATE 1 335 OR94033 HEX SCREW 15 384 OR94029 M6 x 12mm HEX HEAD SERRATED SCREW 2 336 OR94034 SPRING 6 385 OR70998 MAGNETIC SWITCH (3HP,220V,1PH) 1 337 OR94035 8mm x 8mm x 36mm KEY 1 386 OR70999 POWER CORD 1 338 O	327	OR94031	SPRING	1	376	OR94044	E-Ring	2
330 OR93951 M6 x 16mm SOC SET SCREW 1 379 OR90311 M8 FLAT WASHER 4 331 OR70979 KNIFE 3 380 OR90333 M6 x 12mm HEX HEAD SCREW 4 332 OR90863 M5 x 12mm PAN HEAD SCR 6 381 OR90374 10-24 HEX NUT 2 333 OR70980 CUTTERHEAD 1 382 OR90053 #10 EXTERNAL TOOTH WASHER 2 334 OR70981 KNIFE LOCKING BAR 3 383 OR70997 SWITCH MOUNTING PLATE 1 335 OR94033 HEX SCREW 15 384 OR94029 M6 x 12mm HEX HEAD SERRATED SCREW 2 336 OR94034 SPRING 6 385 OR70998 MAGNETIC SWITCH (3HP,220V,1PH) 1 337 OR94035 8mm x 8mm x 8mm x 36mm KEY 1 386 OR70999 POWER CORD 1 338 OR94036 BALL BEARING (6205) 1 387 OR71000 MOTOR CORD 1 340 OR70982	328	OR70978	SPRING HOOK PLATE	1	377	OR93913	M8 x 12mm SOC HD SET SCR	1
331 OR70979 KNIFE 3 380 OR90333 M6 x 12mm HEX HEAD SCREW 4 332 OR90863 M5 x 12mm PAN HEAD SCR 6 381 OR90374 10-24 HEX NUT 2 333 OR70980 CUTTERHEAD 1 382 OR90053 #10 EXTERNAL TOOTH WASHER 2 334 OR70981 KNIFE LOCKING BAR 3 383 OR70997 SWITCH MOUNTING PLATE 1 335 OR94033 HEX SCREW 15 384 OR94029 M6 x 12mm HEX HEAD SERRATED SCREW 2 336 OR94034 SPRING 6 385 OR70998 MAGNETIC SWITCH (3HP,220V,1PH) 1 337 OR94035 8mm x 8mm x 36mm KEY 1 386 OR70999 POWER CORD 1 338 OR94036 BALL BEARING (6205) 1 387 OR71000 MOTOR CORD 1 340 OR70982 SPRING PLATE 3 389 OR94046 10-24 x 1 3/4 PAN HD SCR 2 341 OR94037 5	329	OR94032	M6 x 10mm SOC HD CAP SCREW	2	378	OR93524	M10 x 12mm SOC HD SET SCREW	8
332 OR90863 M5 x 12mm PAN HEAD SCR 6 381 OR90374 10-24 HEX NUT 2 333 OR70980 CUTTERHEAD 1 382 OR90053 #10 EXTERNAL TOOTH WASHER 2 334 OR70981 KNIFE LOCKING BAR 3 383 OR70997 SWITCH MOUNTING PLATE 1 335 OR94033 HEX SCREW 15 384 OR94029 M6 x 12mm HEX HEAD SERRATED SCREW 2 336 OR94034 SPRING 6 385 OR70998 MAGNETIC SWITCH (3HP,220V,1PH) 1 337 OR94035 8mm x 8mm x 8mm x 36mm KEY 1 386 OR70999 POWER CORD 1 338 OR94036 BALL BEARING (6205) 1 387 OR71000 MOTOR CORD 1 339 OR94029 M6 x 12mm HEX HEAD SERRATED SCREW 6 388 OR94045 STRAIN RELIEF 2 340 OR70982 SPRING PLATE 3 389 OR94046 10-24 x 1 3/4 PAN HD SCR 2 341 OR9	330	OR93951	M6 x 16mm SOC SET SCREW	1	379	OR90311	M8 FLAT WASHER	4
333 OR70980 CUTTERHEAD 1 382 OR90053 #10 EXTERNAL TOOTH WASHER 2 334 OR70981 KNIFE LOCKING BAR 3 383 OR70997 SWITCH MOUNTING PLATE 1 335 OR94033 HEX SCREW 15 384 OR94029 M6 x 12mm HEX HEAD SERRATED SCREW 2 336 OR94034 SPRING 6 385 OR70998 MAGNETIC SWITCH (3HP,220V,1PH) 1 337 OR94035 8mm x 8mm x 36mm KEY 1 386 OR70999 POWER CORD 1 338 OR94036 BALL BEARING (6205) 1 387 OR71000 MOTOR CORD 1 339 OR94029 M6 x 12mm HEX HEAD SERRATED SCREW 6 388 OR94045 STRAIN RELIEF 2 340 OR70982 SPRING PLATE 3 389 OR94046 10-24 x 1 3/4 PAN HD SCR 2 341 OR94037 5mm x 5mm x 22mm KEY 1 390 OR71001 GEAR BOX OPERATION LABEL 1 342	331	OR70979	KNIFE	3	380	OR90333	M6 x 12mm HEX HEAD SCREW	4
334 OR70981 KNIFE LOCKING BAR 3 383 OR70997 SWITCH MOUNTING PLATE 1 335 OR94033 HEX SCREW 15 384 OR94029 M6 x 12mm HEX HEAD SERRATED SCREW 2 336 OR94034 SPRING 6 385 OR70998 MAGNETIC SWITCH (3HP,220V,1PH) 1 337 OR94035 8mm x 8mm x 36mm KEY 1 386 OR70999 POWER CORD 1 338 OR94036 BALL BEARING (6205) 1 387 OR71000 MOTOR CORD 1 339 OR94029 M6 x 12mm HEX HEAD SERRATED SCREW 6 388 OR94045 STRAIN RELIEF 2 340 OR70982 SPRING PLATE 3 389 OR94046 10-24 x 1 3/4 PAN HD SCR 2 341 OR94037 5mm x 5mm x 22mm KEY 1 390 OR71001 GEAR BOX OPERATION LABEL 1 342 OR90507 M5 x 8mm PAN HEAD SCREW 2 391 OR71002 NAME PLATE LABEL 1	332	OR90863	M5 x 12mm PAN HEAD SCR	6	381	OR90374	10-24 HEX NUT	2
335 OR94033 HEX SCREW 15 384 OR94029 M6 x 12mm HEX HEAD SERRATED SCREW 2 336 OR94034 SPRING 6 385 OR70998 MAGNETIC SWITCH (3HP,220V,1PH) 1 337 OR94035 8mm x 8mm x 36mm KEY 1 386 OR70999 POWER CORD 1 338 OR94036 BALL BEARING (6205) 1 387 OR71000 MOTOR CORD 1 339 OR94029 M6 x 12mm HEX HEAD SERRATED SCREW 6 388 OR94045 STRAIN RELIEF 2 340 OR70982 SPRING PLATE 3 389 OR94046 10-24 x 1 3/4 PAN HD SCR 2 341 OR94037 5mm x 5mm x 22mm KEY 1 390 OR71001 GEAR BOX OPERATION LABEL 1 342 OR90507 M5 x 8mm PAN HEAD SCREW 2 391 OR71002 NAME PLATE LABEL 1	333	OR70980	CUTTERHEAD	1	382	OR90053	#10 EXTERNAL TOOTH WASHER	2
336 OR94034 SPRING 6 385 OR70998 MAGNETIC SWITCH (3HP,220V,1PH) 1 337 OR94035 8mm x 8mm x 36mm KEY 1 386 OR70999 POWER CORD 1 338 OR94036 BALL BEARING (6205) 1 387 OR71000 MOTOR CORD 1 339 OR94029 M6 x 12mm HEX HEAD SERRATED SCREW 6 388 OR94045 STRAIN RELIEF 2 340 OR70982 SPRING PLATE 3 389 OR94046 10-24 x 1 3/4 PAN HD SCR 2 341 OR94037 5mm x 5mm x 22mm KEY 1 390 OR71001 GEAR BOX OPERATION LABEL 1 342 OR90507 M5 x 8mm PAN HEAD SCREW 2 391 OR71002 NAME PLATE LABEL 1	334	OR70981	KNIFE LOCKING BAR	3	383	OR70997	SWITCH MOUNTING PLATE	1
337 OR94035 8mm x 8mm x 36mm KEY 1 386 OR70999 POWER CORD 1 338 OR94036 BALL BEARING (6205) 1 387 OR71000 MOTOR CORD 1 339 OR94029 M6 x 12mm HEX HEAD SERRATED SCREW 6 388 OR94045 STRAIN RELIEF 2 340 OR70982 SPRING PLATE 3 389 OR94046 10-24 x 1 3/4 PAN HD SCR 2 341 OR94037 5mm x 5mm x 22mm KEY 1 390 OR71001 GEAR BOX OPERATION LABEL 1 342 OR90507 M5 x 8mm PAN HEAD SCREW 2 391 OR71002 NAME PLATE LABEL 1	335	OR94033	HEX SCREW	15	384	OR94029	M6 x 12mm HEX HEAD SERRATED SCREW	2
338 OR94036 BALL BEARING (6205) 1 387 OR71000 MOTOR CORD 1 339 OR94029 M6 x 12mm HEX HEAD SERRATED SCREW 6 388 OR94045 STRAIN RELIEF 2 340 OR70982 SPRING PLATE 3 389 OR94046 10-24 x 1 3/4 PAN HD SCR 2 341 OR94037 5mm x 5mm x 22mm KEY 1 390 OR71001 GEAR BOX OPERATION LABEL 1 342 OR90507 M5 x 8mm PAN HEAD SCREW 2 391 OR71002 NAME PLATE LABEL 1	336	OR94034	SPRING	6	385	OR70998	MAGNETIC SWITCH (3HP,220V,1PH)	1
339 OR94029 M6 x 12mm HEX HEAD SERRATED SCREW 6 388 OR94045 STRAIN RELIEF 2 340 OR70982 SPRING PLATE 3 389 OR94046 10-24 x 1 3/4 PAN HD SCR 2 341 OR94037 5mm x 5mm x 22mm KEY 1 390 OR71001 GEAR BOX OPERATION LABEL 1 342 OR90507 M5 x 8mm PAN HEAD SCREW 2 391 OR71002 NAME PLATE LABEL 1	337	OR94035	8mm x 8mm x 36mm KEY	1	386	OR70999	POWER CORD	1
340 OR70982 SPRING PLATE 3 389 OR94046 10-24 x 1 3/4 PAN HD SCR 2 341 OR94037 5mm x 5mm x 22mm KEY 1 390 OR71001 GEAR BOX OPERATION LABEL 1 342 OR90507 M5 x 8mm PAN HEAD SCREW 2 391 OR71002 NAME PLATE LABEL 1	338	OR94036	BALL BEARING (6205)	1	387	OR71000	MOTOR CORD	1
341 OR94037 5mm x 5mm x 22mm KEY 1 390 OR71001 GEAR BOX OPERATION LABEL 1 342 OR90507 M5 x 8mm PAN HEAD SCREW 2 391 OR71002 NAME PLATE LABEL 1	339	OR94029	M6 x 12mm HEX HEAD SERRATED SCREW	6	388	OR94045	STRAIN RELIEF	2
342 OR90507 M5 x 8mm PAN HEAD SCREW 2 391 OR71002 NAME PLATE LABEL 1	340	OR70982	SPRING PLATE	3	389	OR94046	10-24 x 1 3/4 PAN HD SCR	2
	341	OR94037	5mm x 5mm x 22mm KEY	1	390	OR71001	GEAR BOX OPERATION LABEL	1
343 OR70983 LIMIT PLATE 1	342	OR90507	M5 x 8mm PAN HEAD SCREW	2	391	OR71002	NAME PLATE LABEL	1
	343	OR70983	LIMIT PLATE	1				



KEY NO.	PART NO.	DESCRIPTION	QTY.	KEY NO.	PART NO.	DESCRIPTION	QTY.
400	OR93975	12MM / 14MM OPEN END WRENCH	1	446	OR71018	GEAR	1
401	OR90908	8MM / 10MM OPEN END WRENCH	1	447	OR92734	BALL BEARING (6201)	1
402	OR90290	3MM WRENCH	1	448	OR93936	M6 x 25mm SOC HD CAP SCR	1
403	OR90291	4MM WRENCH	1	449	OR71019	GEAR	1
404	OR91728	5MM WRENCH	1	450	OR90366	BALL BEARING (6204ZZ)	1
405	OR91729	6MM WRENCH	1	451	OR93372	M6 x 12mm SOC HD CAP SCR	1
406	OR94029	M6 x 12mm HEX HEAD SERRATED SCREW	4	452	OR94052	6.2mm ID x 20mm OD x 3mm THK FLAT WASHER	1
407	OR71003	DUST HOOD	1	453	OR94053	OIL SEAL	1
408	OR94047	RETAINING CLIP	3	454	OR94054	PLUG	1
409	OR71004	DUST CHUTE	1	455	OR71020	GEARBOX	1
410	OR94048	M6 x 12mm PAN HEAD SCREW W/FLAT WASHER	6	456	OR94054	PLUG	1
411	OR71005	KNIFE SETTING GAGE ASSY CONST. OF		457	OR71021	GEARBOX GASKET	1
		REF 412 TO REF 414	1	458	OR94055	BALL BEARING (6201Z)	1
412	OR94049	E-RING	4	459	OR71022	GEAR ASSEMBLY	1
413	OR71006	KNIFE SETTING GAGE SHAFT	1	460	OR71023	SHAFT	1
414	OR71007	KNIFE SETTING GAGE	2	461	OR94056	SPRING	1
420	OR71008	CUTTERHEAD PULLEY	1	462	OR94057	STEEL BALL	1
421	OR90616	5/16-18 HEX NUT	2	463	OR94058	OIL SEAL	1
422	OR90311	M8 FLATWASHER	2	464	OR94059	BALL BEARING (6204Z)	1
423	OR71009	BELT GUARD REAR	1	465	OR94055	BALL BEARING (6201Z)	1
424	OR94029	M6 x 12mm HEX HEAD SERRATED SCREW	4	466	OR71024	GEAR	1
425	OR90311	M8 FLAT WASHER	2	468	OR94060	6mm x 6mm x 40mm KEY	1
426	OR91752	M8 x 25mm HEX HEAD SCREW	1	467	OR94061	5mm x 5mm x 10mm KEY	1
427	OR71010	BELT GUARD MOUNT	2	469	OR71025	SHAFT	1
428	OR71011	BELT	3	470	OR94055	BALL BEARING (6201Z)	1
429	OR71012	BELT GUARD FRONT	1	471	OR94062	KNOB	1
430	OR94050	KNOB	2	472	OR71026	SPROCKET	1
431	OR71013	BELT GUARD SPACER	2	473	OR94063	FLAT WASHER 6.2mm x 22mm x 3mm	1
439	OR71014	GEAR BOX ASSY CONST. OF REF 440 TO REF 479	1	474	OR94038	M6 x 16mm HEX HEAD SCREW	1
440	OR93936	M6 x 25mm SOC HD CAP SCR	6	476	OR94064	O-RING	1
441	OR71015	PIN	2	477	OR71027	SHAFT	1
442	OR71016	GEARBOX COVER	1	478	OR71028	SHIFTING CLAW	1
443	OR92734	BALL BEARING (6201)	1	479	OR94029	M6 x 12mm HEX HEAD SERRATED SCREW	1
444	OR94051	5mm x 5mm x 12mm KEY	1	480	OR94065	CHAIN	1
445	OR71017	SHAFT	1				



KEY NO.	PART NO.	DESCRIPTION	QTY.	KEY NO.	PART NO.	DESCRIPTION	QTY.
501	OR73292	DRO ASSY	1	507	OR90135	M4 X 6mm ROUND HD SCREW	3
502	OR73293	BRACKET	1	508	OR90505	M5 X 12mm ROUND HD SCREW	2
503	OR73294	ADJUSTABLE PLATE	1	509	OR90306	M6 X 12mm ROUND HD SCREW	9
504	OR94798	M5.6 FLAT WASHER	2	600	OR71029	MANUAL (NOT SHOWN)	1
505	OR94799	M4.3 FLAT WASHER	1	601	OR71030	MANUAL FRENCH (NOT SHOWN)	1
506	OR94800	M6.7 FLAT WASHER	1	602	OR71031	MANUAL SPANISH (NOT SHOWN)	1



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