



4270 16" Jointer

Owner's Manual



Oliver Machinery
Seattle, WA
info@olivermachinery.net

M-4270 11/2003
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www.olivermachinery.net

Warranty

Thank you for your purchase of a genuine Oliver woodworking machine. Oliver Machinery has made every attempt to provide a machine that is safe and durable.

All Oliver products are guaranteed, to the ORIGINAL RETAIL CUSTOMER, to be free from defects for TWO YEARS FROM THE DATE OF PURCHASE. Oliver Machinery will repair or replace, at its option, any component that fails under normal use. Please note that the customer is responsible for returning the failed component to Oliver Machinery prepaid for inspection.

This warranty does not cover damages caused by misuse, accident, unauthorized repair, alteration or improper maintenance.

Warning

Read this manual thoroughly before operating the machine. Oliver Machinery disclaims any liability for machines that have been altered or abused. Oliver Machinery reserves the right to effect at any time, without prior notice, those alterations to parts, fittings, and accessory equipment which they may deem necessary for any reason whatsoever.

For More Information

Oliver Machinery is always adding new Industrial Woodworking products to the line. For complete, up-to-date product information, check with your local Oliver Machinery distributor, or visit www.olivermachinery.net

! WARNING

Read this manual completely and observe all warning labels on the machine. Oliver Machinery has made every attempt to provide a safe, reliable, easy-to-use piece of machinery. Safety, however, is ultimately the responsibility of the individual machine operator. As with any piece of machinery, the operator must exercise caution, patience, and common sense to safely run the machine. Before operating this product, become familiar with the safety rules in the following sections.

- **Always keep guards in place and in proper operating condition.**
 - **Never reach around or under the jointer.**
1. **If you are not properly trained** in the use of a jointer do not use until the proper training has been obtained.
 2. **Read, understand and follow** the safety instructions found in this manual. Know the limitations and hazards associated with this machine.
 3. **Electrical grounding:** Make certain that the machine frame is electrically grounded and that a ground lead is included in the incoming electrical service. In cases where a cord and plug are used, make certain that the grounding plug connects to a suitable ground. Follow the grounding procedure indicated in the National Electrical Code.
 4. **Eye safety:** Wear an approved safety shield, goggles, or glasses to protect eyes. Common eyeglasses are only impact-resistant, they are not safety glasses.
 5. **Personal protection:** Before operating the machine, remove tie, rings, watch and other jewelry and roll up sleeves above the elbows. Remove all loose outer clothing and confine long hair. Protective type footwear should be used. Where the noise exceeds the level of exposure allowed in Section 1910.95 of the OSHA Regulations, use hearing protective devices. Do not wear gloves.
 6. **Guards:** Keep the machine guards in place for every operation for which they can be used. If any guards are removed for maintenance, **DO NOT OPERATE** the machine until the guards are reinstalled.
 7. **Work area:** Keep the floor around the machine clean and free of scrap material, saw dust, oil and other liquids to minimize the danger of tripping or slipping. Be sure the table is free of all scrap, foreign material and tools before starting to use the machine. Make certain the work area is well lighted and that a proper exhaust system is used to minimize dust. Use anti-skid floor strips on the floor area where the operator normally stands and mark off machine work area. Provide adequate work space around the machine.
 8. **Jointer position:** Position the jointer so that in case of material kick back the flying piece will not injure workers.
 9. **Material condition:** Do not attempt to joint boards with loose knots or with nails or other foreign material.
 10. **Operator:** Always use push blocks. Maintain a balanced stance and keep your body under control at all times.
 11. **Before starting:** Before turning on machine, remove all extra equipment such as keys, wrenches, scraps, and cleaning rags away from the machine and off the table.

12. **Careless acts:** Give the work you are doing your undivided attention. Looking around, carrying on a conversation, and “horseplay” are careless acts that can result in serious injury.
13. **Disconnect all power sources:** Before performing any service, maintenance, adjustments or when changing blades. A machine under repair should be RED TAGGED to show it should not be used until the maintenance is complete.
14. **Job completion:** If the operator leaves the machine area for any reason, the jointer should be turned "off" and the cutter head should come to a complete stop before leaving.
15. **Replacement parts:** Use only genuine Oliver Machinery factory authorized replacement parts and accessories; otherwise the warranty and guarantee are null and void.
16. **Misuse:** Do not use this Oliver jointer for other than its intended use. If used for other purposes, Oliver disclaims any real or implied warranty and holds itself harmless for any injury or damage which may result from that use.
17. **Drugs, alcohol and medication:** Do not operate this machine while under the influence of drugs, alcohol, or any medication.
18. **This machine is designed** for planing wood products only. Do not use to cut any kind of metal or substance other than wood.
19. **Never start the jointer** while a workpiece is in contact with the blade.
20. **Raise or lower the tables** only when the machine has been turned “off” and the cutter head has come to a complete stop.
21. **Make sure** the cutter head is running in the proper direction. The knives should be turning toward the infeed table.
22. **Health hazards:** Some dust created by power sanding, sawing, grinding, drilling and other construction activities contains chemicals known to cause cancer, birth defects or other reproductive harm. Some examples of these chemicals are:
 - Lead from lead-based paint.
 - Crystalline silica from bricks and cement and other masonry products.
 - Arsenic and chromium from chemically-treated lumber.Your risk from these exposures varies, depending on how often you do this type of work. To reduce your exposure to these chemicals, work in a well-ventilated area, and work with approved safety equipment, such as those dust masks that are specifically designed to filter out microscopic particles.

Familiarize yourself with the following safety notices used in this manual:

CAUTION: (This means that if precautions are not heeded, it may result in minor or moderate injury and/or possible machine damage)

WARNING: (This means that if precautions are not heeded, it could result in serious injury or possibly even death).

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Specifications	
Model No.....	4270
Stock No (5HP, 1PH, 220 Volt).....	4270.001
Stock No.(7.5HP, 3PH, 220/440 Volt, pre-wired 220 Volt).....	4270.002
Stock No.(5HP, 1PH, 220 volt, <i>spiral head</i>).....	4270.101
Stock No (7.5HP, 3PH, 220/440 volt, pre-wired 220 Volt, <i>spiral head</i>).....	4270.102
Infeed Table Travel (in.).....	1
Cutterhead speed (RPM).....	6000
Number of Knives (Straight).....	4
Number of Knives (Spiral).....	3
Rabbeting Capacity (in.).....	3/4
Dust Port Diameter (in.).....	6
Table Dimensions (L x W/in.).....	102 x 17
Table Height (In.).....	32
Fence Dimensions (L x H/in.).....	68-1/2 x 5-1/2
Fence Tilts (deg.).....	90 - 45
Positive Stops (deg.).....	90 and 45
Shipping Dimension (L x W x H/in.).....	104 x 36 x 39
Overall Dimensions.....	102 x 45 x 40
Gross Weight (lbs.).....	1750
CFM.....	884CFM at 4500FPM air velocity

Oliver 4270 – 16” Jointer

Contents:

1. 16” Jointer
2. Two push blocks
3. Knife setting jig
4. Allen keys
5. Wrenches

Uncrating the Machine

Uncrate the machine and inspect the unit for signs of shipping damage. If damage is found, contact your dealer immediately. Unbolt the machine from the pallet. Retain all packaging materials in case it becomes necessary to ship the machine to another site.

Machine Preparation and Setup

! WARNING

The equipment used to lift this machine must have a rated capacity at, or above the weight of the jointer. Failure to comply may cause serious injury!

The jointer must be positioned on a smooth, level surface. The area must be well lit and have plenty of room to maneuver with large pieces of wood.

Level the jointer front to back and side to side using a level placed on the table. Use shims under the corners, if necessary, but make sure the jointer is stable before being placed into service.

Clean all rust protected surfaces with a commercial solvent. Do not use acetone, gasoline, lacquer thinner or any type of flammable solvent, or a cleaner that may damage paint. Cover cleaned surfaces with WD-40 or a 20W machine oil.



Tool Box Contents

Dust Collection

The 6" dust collection port (A, Figure 4) is located below the outfeed table. Typically flex hose is used to run from this point to a central trunk line.

Note: Do not operate the jointer without dust collection.

Electrical Connections

! WARNING

Electrical connections and wiring must be performed by a certified electrician. The machine must be properly grounded. Failure to comply may cause serious injury!

This jointer can be 1 or 3-Phase based on your order and is wired for 220 volt. If on 3 phase you need to switch from 220V to 440V, have a certified electrician make the changes.

Make sure the voltage of your power supply matches the specifications on the motor plate of the machine.

With 3-Phase power verify the cutter head is turning in the proper direction. If rotation is incorrect, swap two of the phases to reverse.

Note: If running from a phase converter ensure the 'high leg' of the converter does not feed the control circuit.

Stop/Start Switch

Attach the Stop/Start switch (Figure 3) to holes 'A' using the supplied bolts



Figure 1

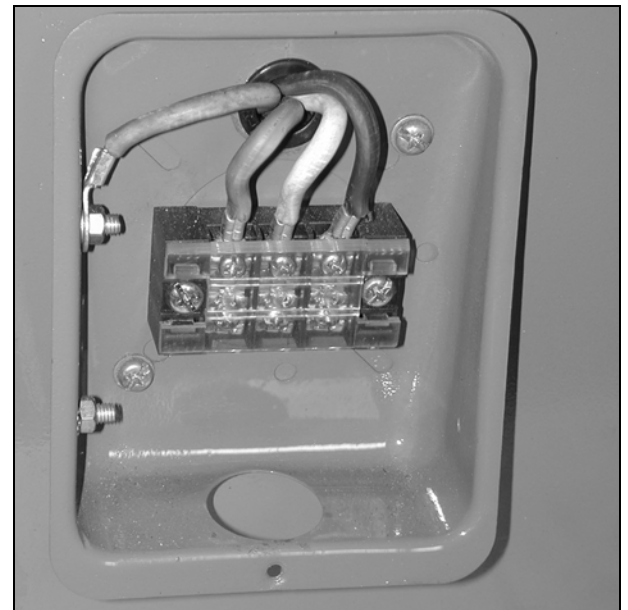


Figure 2 (3 Phase)

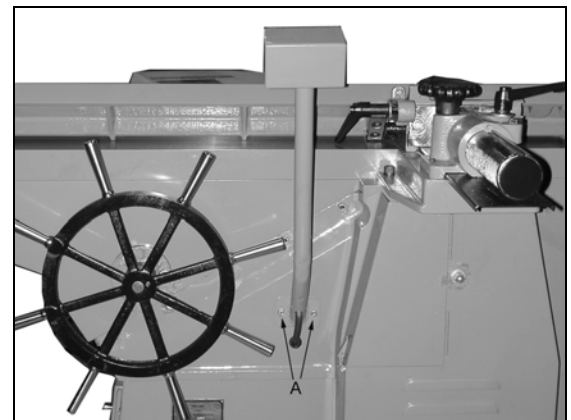


Figure 3

Fence

! WARNING

Never make any adjustments with the machine running!

Installation of the Fence

The fence, although completely assembled, requires bolting to the machine as well as alignment.

1. Mount the fence (Figure 5) to the machine base (Figure 4) lining up the holes (A), using the allen bolts provided.

Fence Legend

The various adjustments, locks and handles are shown in Figure 5.

- A. 90 degree adjust bolt.
- B. Angle lock handle.
- C. 90 degree flip stop.
- D. Width adjustment handle.
- E. 45 degree adjust bolt.
- F. Width lock handle.
- G. Fence angle adjust handle.

Adjustment of the 90 Degree Stop

1. Lay a square on the infeed table as shown in Figure 6.
2. Loosen the angle lock handle (B, figure 5).
3. Ensure the 90 degree flip stop (C, Figure 5) is in the 90 degree position.
4. Loosen the jam nut on the 90 degree adjusting bolt (A, figure 5) and adjust the bolt against the flip stop until the fence becomes true with the square.
5. Tighten the jam nut while holding the bolt in position.

Fence Operation

To tilt the fence, see Figure 5. Loosen angle lock handle 'B', flip up the stop 'C', and tilt the fence with the fence angle adjusting handle 'G' to the desired angle. Use a protractor or adjustable triangle to set the angle. A 45 degree stop, 'E' is provided for quick set-up at this angle.

To adjust the cutting width loosen the lock handle 'F' and turn the width adjustment handle 'D' to move the fence toward or away from the rabbeting ledge.

Once any adjustments are made be sure to lock them into place.

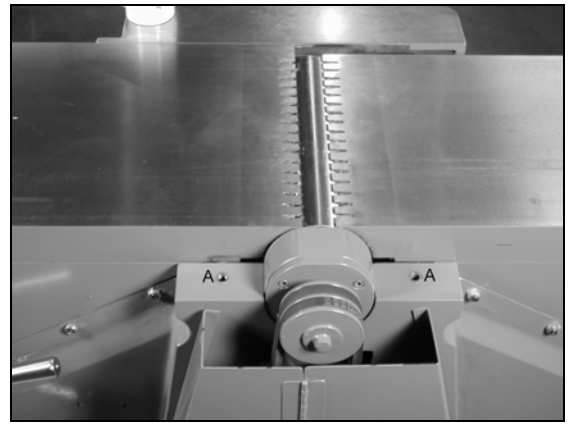


Figure 4

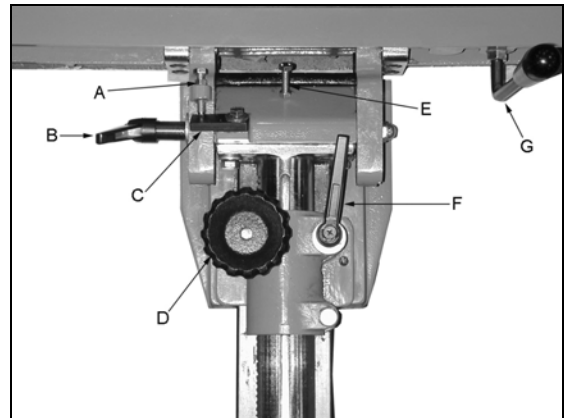


Figure 5

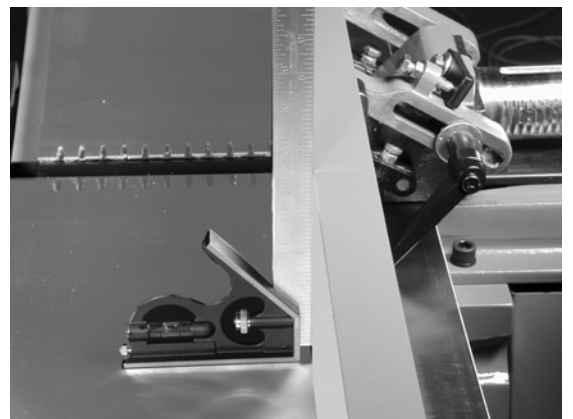


Figure 6

Knives

! WARNING

The knives are extremely sharp. Use caution when handling.

Installation of the Knives

1. To expose the cutterhead, move the fence all the way back.
2. Back down both the infeed and outfeed tables to their lowest position. Be sure to loosen the lock on the outfeed table before doing so.
3. Now turn the cutterhead by hand until one of the knives is exposed and accessible. Use gloves or a rag to prevent injury.
4. Using a 10mm wrench on the knife lock bolt, release the pressure on the knife by turning the bolt into the cutterhead as shown in Figure 7. To prevent injury, hold the wrench with one hand while tapping the top of the wrench with the other hand as shown. Do this for all six bolts.
5. Once all the bolts have been turned in, the knife should pop up from the spring pressure. Remove the knife and immediately place the new knife in the slot to prevent loss of the springs.

Note: It is not only important to set the height of the knife with respect to the cutterhead it is also important that the outside edge of the knives be aligned with the rabbeting ledge.

6. With the knife in the slot use a straight edge on the rabbeting ledge as shown in Figure 8 to push the knife into alignment with the edge.
7. Next use the supplied knife guage as shown to carefully push down on the knife until it is position as shown in Figure 9. Make sure the knife makes contact within the indent as shown by 'A' in Figure 9.
8. With the knife held firmly into place back the knife lock bolts out into the cutterhead in order to put pressure onto the knife. Work from the center bolts outward. Do this in two steps. First loosely, then firmly the second time.
9. Repeat the above for all knives.

Note: The supplied guage sets the knives to the cutterhead however it is always best to set the knives to the outfeed table. Many aftermarket devices are available to do this. If using this method the knife should be no more than 1/8" out of the cutterhead (not including the bevel)

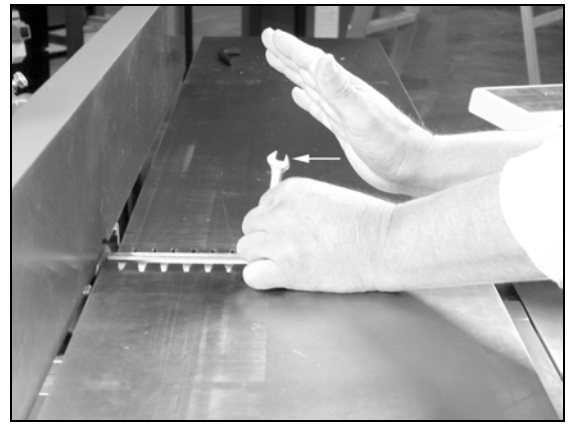


Figure 7

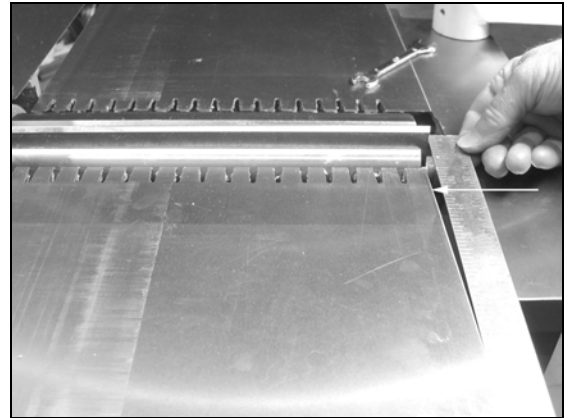


Figure 8

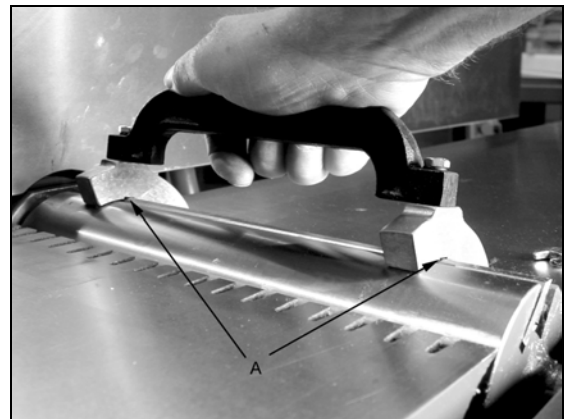


Figure 9

Adjusting the Outfeed Table

1. Once the knives are set it is now time to set the outfeed table. For proper operation the height of the outfeed table must be set to the highest point of the cutting circle. To do this, set a straight edge on the outfeed table as shown in Figure 10.
2. Carefully watch the height of the straight edge as you gently rock the cutterhead back and forth as shown by the arrows in figure 10. Stop when the knife is at its highest position.
3. At this point it is time to 'dial in' the outfeed table to the knife. To do this, slowly turn up or down the table with the table height adjusting wheel (B, Figure 11) until there is no light between the table and the bottom of the straight edge.
4. Once set, lock into place with the height lock knob (A, Figure 11).

Note: Failure to adjust the outfeed table will result in either a curved or sniped work piece.

Operation

! WARNING

Keep all guards in place. Keep hands away from the cutterhead! Always use push stick when possible. Failure to comply may cause serious injury.

Hand Safety and Placement

Never pass the hands directly over the cutter knife. As one hand approaches the knives remove it from the stock in an arc motion and place it back on the stock in a position beyond the cutter knife. See figure 12.

When feeding the work piece, pressure is applied not only toward the cutterhead but against the fence and down to the table as well. At the start of the cut, the left hand holds the material down and toward the fence while the right hand pushes toward the cutterhead. As the material crosses the cutterhead the left hand comes up and over as in Figure 12 to continue the pressure but now on the outfeed table. As the right hand approaches the cutterhead it is time to move it up and over the cutterhead in the same fashion as the left in Figure 12 all the while continuing pressure as stated above.

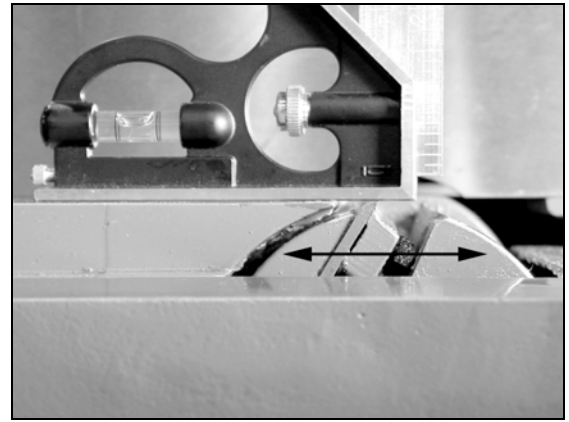


Figure 10

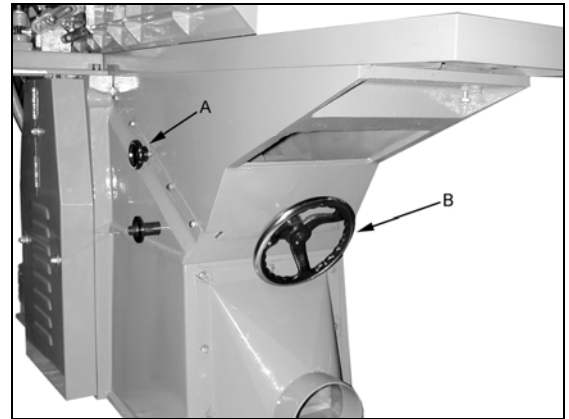


Figure 11

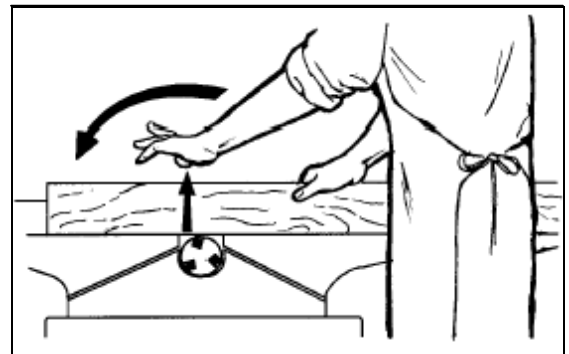


Figure 12

Jointing

In order to craft a good woodworking project, it is necessary to have a square piece of wood to start with. The way to do this is with a jointer. You need one straight edge and one flat face. After you have these, you can plane to thickness and rip to width and the resulting piece will be square and true on all four sides. At this point you can begin building your project.

Direction of the Grain

To avoid tear out, always feed the material in the direction of the grain. If the direction of the grain changes half way through the board, try taking lighter cuts at a slower feed rate. If the results are still unsatisfactory, try turning the material around and feeding the other way. (Figure 13)

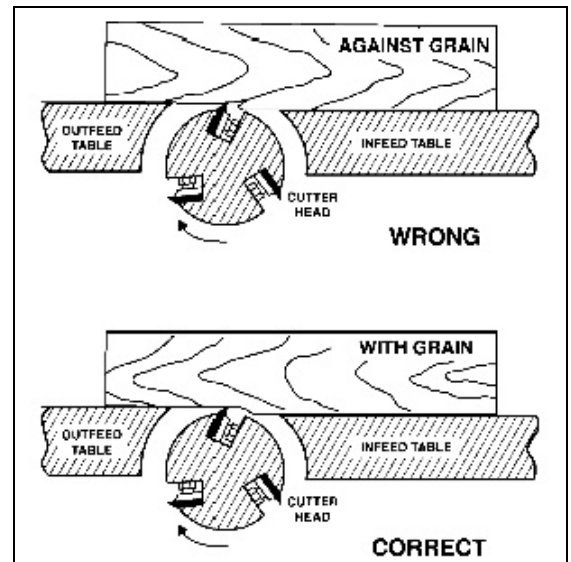


Figure 13

Edging (Figure 14)

To give a good straight edge for gluing or joining, set the fence square with the table. Remove the least amount of material required to obtain a straight edge. Hold the best face of the piece firmly against the fence throughout the feed. When finished you will have a perfect starting point for your project.



Figure 14

Facing (Figure 15)

Once you have a good edge it is time to eliminate any warp or cup on the board. Keep in mind the outfeed table is the reference point and once the material is past the cutterhead, downward pressure should be applied to the outfeed table only. Putting downward pressure on the board over the infeed table will bend any cup or warp prior to hitting the cutterhead and after the pressure is released, the cup will spring back. At the same time try keeping a constant feed rate in order to give a good smooth cut with no burn marks.

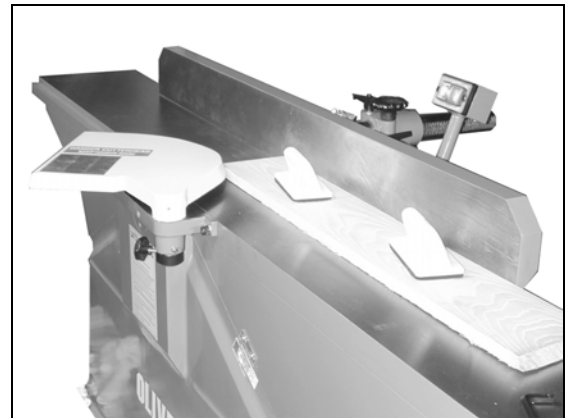


Figure 15

Beveling

For beveling (Figure 16), set the fence to the desired angle using a protractor and lock into place. Feed the material through pressing firmly against the fence and tables. Several passes may be necessary for the desired result.

Rabbeting

! WARNING

Rabbeting requires removal of the blade guard. Use extreme caution and replace the guard after completion.

1. Adjust the fence so that the distance between the edge of the knife and the fence is equal to the width of the desired rabbet (figure 17).
2. Lower the infeed table to the depth of the rabbet required. If the rabbet is quite deep it may be necessary to do it in increments.

Adjusting the Infeed Table Height

The height of the infeed table with respect to the cutting circle will determine the amount of material to be removed from the work piece. To raise or lower the table turn the height adjusting wheel (A, Figure 18) on the back of the infeed table to the desired height indicated by the gauge (B, Figure 18).



Figure 16



Figure 17



Figure 18

Maintenance

V-Belts

After the first 20 hours of operation it is necessary to check the tension on of the V-belts. To do this, open the access door (A, Figure 19). With medium finger pressure the belt should push in approximately ½" about midway between the pulleys. If there is too much play, remove the three belt cover bolts (B, Figure 19) and pull the guard off. Adjust the tension by loosening the bottom jam nut on the bracket (A, Figure 20) and then turn down the top nut until the desired tension is achieved.

Lubrication

Periodically apply a light grease to the tables up/down lead screw. As well, apply a light oil to the dovetail ways from time to time to allow ease of movement.

The cutterhead bearings are permanently greased for life and do not require care.

Knives

When knives become gummed up with pitch carefully clean them with a strong solvent. A knife in this condition will not only give a poor cut it will allow heat to build up quickly thus putting undue stress on the machine.

Dull knives can be replaced or sharpened. Check in your local yellow pages for a sharpening service. It may be more cost effective to replace rather than sharpen.

Note; Do not run the machine with dull knives. Not only will they give a bad cut, the put undue stress and vibration on the machine thereby decreasing the life of the machine and damaging the cutterhead bearings.

Table Leveling

The tables have been leveled at the factory and should not require leveling. However, if needed it can be done using the adjusting bolts as seen in Figure 21. There are 6 sets each consisting of a locking bolt and an adjusting bolt with jam nut. It should only be necessary to adjust one table leaving the other table as is. Keep in mind that leveling a table can easily turn into a long project therefore it is best to determine what part of the table needs adjusting before turning a bolt and to turn only a little at a time. Also understand that changing the position of one bolt affects all others and that the other bolts will have to be 'zeroed' out. To adjust the table loosen all lock nuts and jam nuts, adjust the appropriate bolts and lock into place. Note: Use a good known 4' straight edge such as by Starrett.



Figure 19

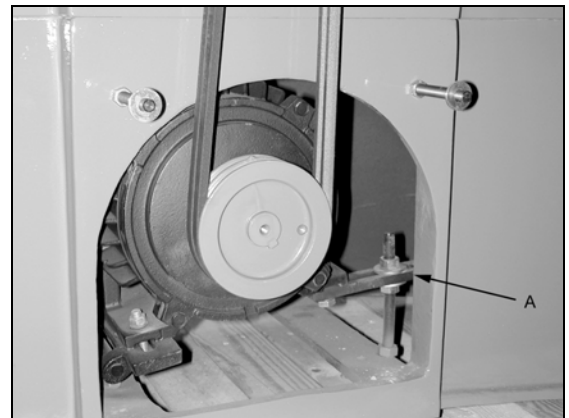


Figure 20



Figure 21

Troubleshooting

Description of Symptoms	Possible Cause	Corrective Action
Machine will not start	<ol style="list-style-type: none"> 1. Fuse blown or circuit breaker tripped 2. Cord Damaged 3. Faulty switch 4. Not connected to power source 5. No power to machine 6. Emergency stop button pressed 	<ol style="list-style-type: none"> 1. Replace fuse or reset circuit breaker 2. Have cord replaced 3. Replace switch 4. Check connection 5. Check voltage 6. Rotate emergency stop button clockwise until it pops out
Cutterhead does not come up to speed	<ol style="list-style-type: none"> 1. Cable too light or too long 2. Low current 3. Motor not wired for correct voltage 	<ol style="list-style-type: none"> 1. Replace with adequate size cable 2. Contact local electric company 3. Refer to motor nameplate for correct voltage
Unsatisfactory finish	<ol style="list-style-type: none"> 1. Dull Knives 2. Gum or pitch on knives 	<ol style="list-style-type: none"> 1. Sharpen or replace knives 2. Clean or replace knives
Excessive vibration	<ol style="list-style-type: none"> 1. Machine not level. 2. Damaged knives 3. Bad V-belts 4. Bent pulley 5. Improper motor mounting 6. Loose hardware 	<ol style="list-style-type: none"> 1. Reposition on flat, level surface 2. Replace knives 3. Replace V-belts 4. Replace pulley 5. Check and adjust motor 6. Tighten hardware
Adjustments do not move freely.	Sawdust and debris in mechanisms	Clean and regrease
Finished stock is concave on the end	Knife is higher than the outfeed table	Adjust the outfeed table to the highest point of the cutting circle
Back end of the stock is thicker than the front end	Knife is higher than the outfeed table	Adjust the outfeed table to the highest point of the cutting circle
Finished stock is concave or convex in the middle	Tables are not level with each other.	Level one of the tables to the other.

4270

16 INCH JOINTER



A TRADITION OF INNOVATION™



FEATURING

- 68 1/2" fence
- Precision ground table for perfect jointing
- Super long 102" bed
- Dovetail Ways for precision table adjustment
- Powerful 5 HP or 7.5 HP motor for easy cutting
- Solid cast iron base for vibration-free operation
- Wide base for stability

The Oliver 4270 16" Jointer is ready for anything you can throw at it. With 16" of jointing capacity you'll be hard pressed to find a job that outclasses this beast. With a super long 102" bed and an ample 68 1/2" fence, your stock comes out straight and true every time. A powerful 7.5 or 5 horsepower motor gives you the torque you need to joint the toughest hardwoods with ease.

The solid cast iron base firmly establishes the quality of the machine, while the noise reduction slots near the cutterhead help keep this machine quiet. Flip this sheet over for a peek at some of the other excellent features hidden inside the 4270!

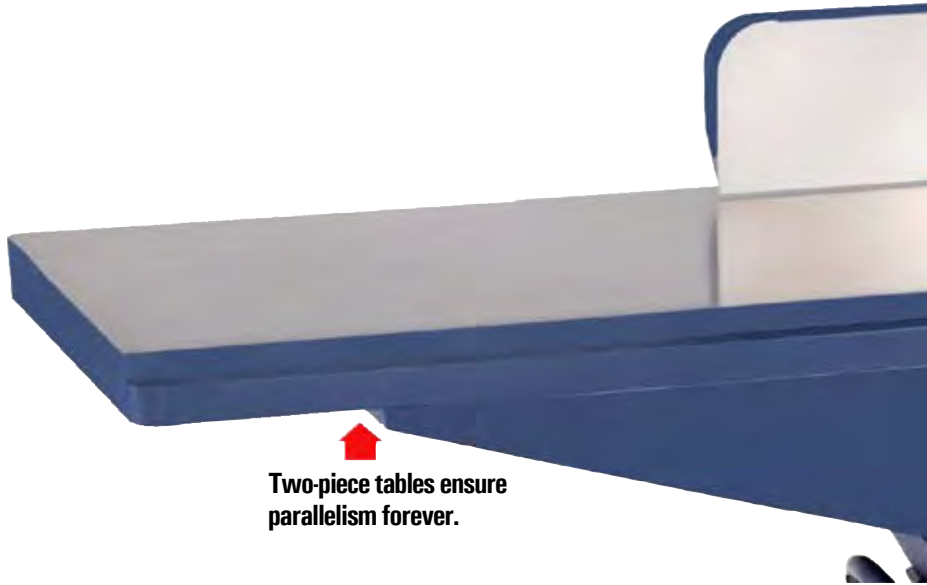
CALL: 1-800-559-5065
To find a dealer near you!

**2YEAR
LIMITED
WARRANTY**



4270

16 INCH JOINTER



Two-piece tables ensure parallelism forever.

Model No.	4270
Stock No. (5HP, 1Ph, Straight)	4270.001
Stock No. (7-1/2HP, 3Ph, Straight)	4270.002
Stock No. (5HP, 1Ph, Helical)	4270.101
Stock No. (7-1/2HP, 3Ph, Helical)	4270.102
Infeed Table Travel (in.)	1
Cutterhead Speed (RPM)	6,000
Number of Knives (Straight)	4
Rabbeting Capacity (in.)	3/4
Dust Port Diameter (in.)	6
Table Dimensions (L x W/in.)	102 x 17
Table Height (In.)	32
Fence Dimensions (L x H/in.)	68-1/2 x 5-1/2
Fence Tilts (deg.)	90 - 45
Positive Stops (deg.)	90 and 45
Motor	5HP, 1Ph, 220V Only or 7-1/2HP, 3Ph, 220/440V Prewired 220V
Overall Dimensions (L x W x H/in.)	102 x 45 x 40
Gross Weight (lbs.)	2,200

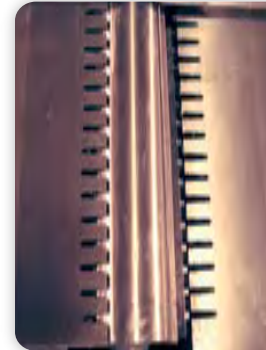
The 4270: built the Oliver way.

Our customers can't say enough good things about the 4270. Quality, value, precision, ease of use, the list goes on and on. Below are just a few examples.



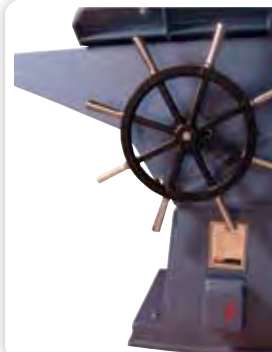
HELICAL CUTTERHEAD

Long-lasting quad-sided solid carbide knives greatly reduce cutterhead noise. Each indexable knife is sharpened on all sides, so just give them a spin and they're as good as new with no knife setting required!



NOISE REDUCTION SLOTS FOR QUIET OPERATION

These slots help reduce noise generated by air travel between the cutterhead and table. Oliver Jointers are quiet to begin with, this helps make them even quieter.

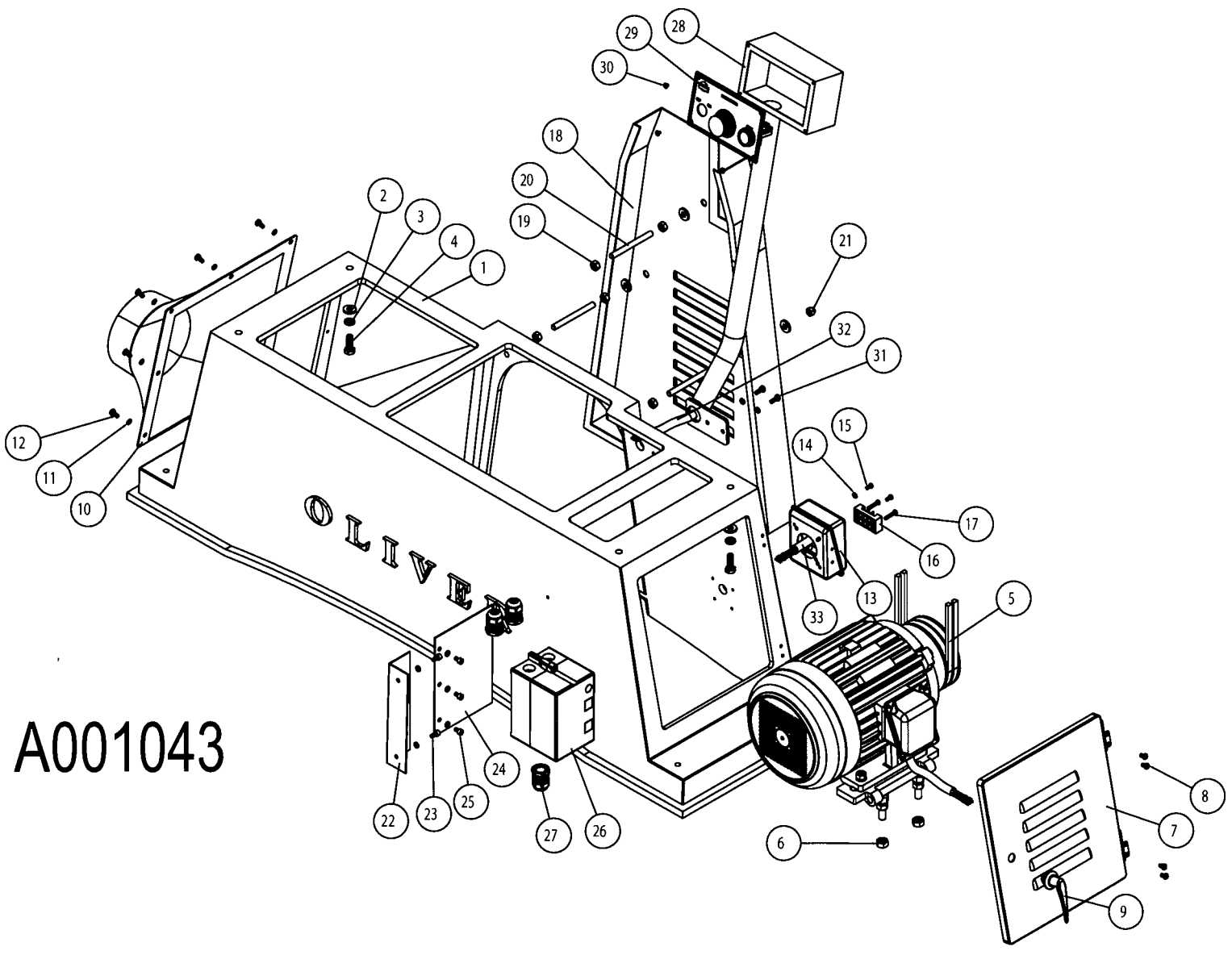


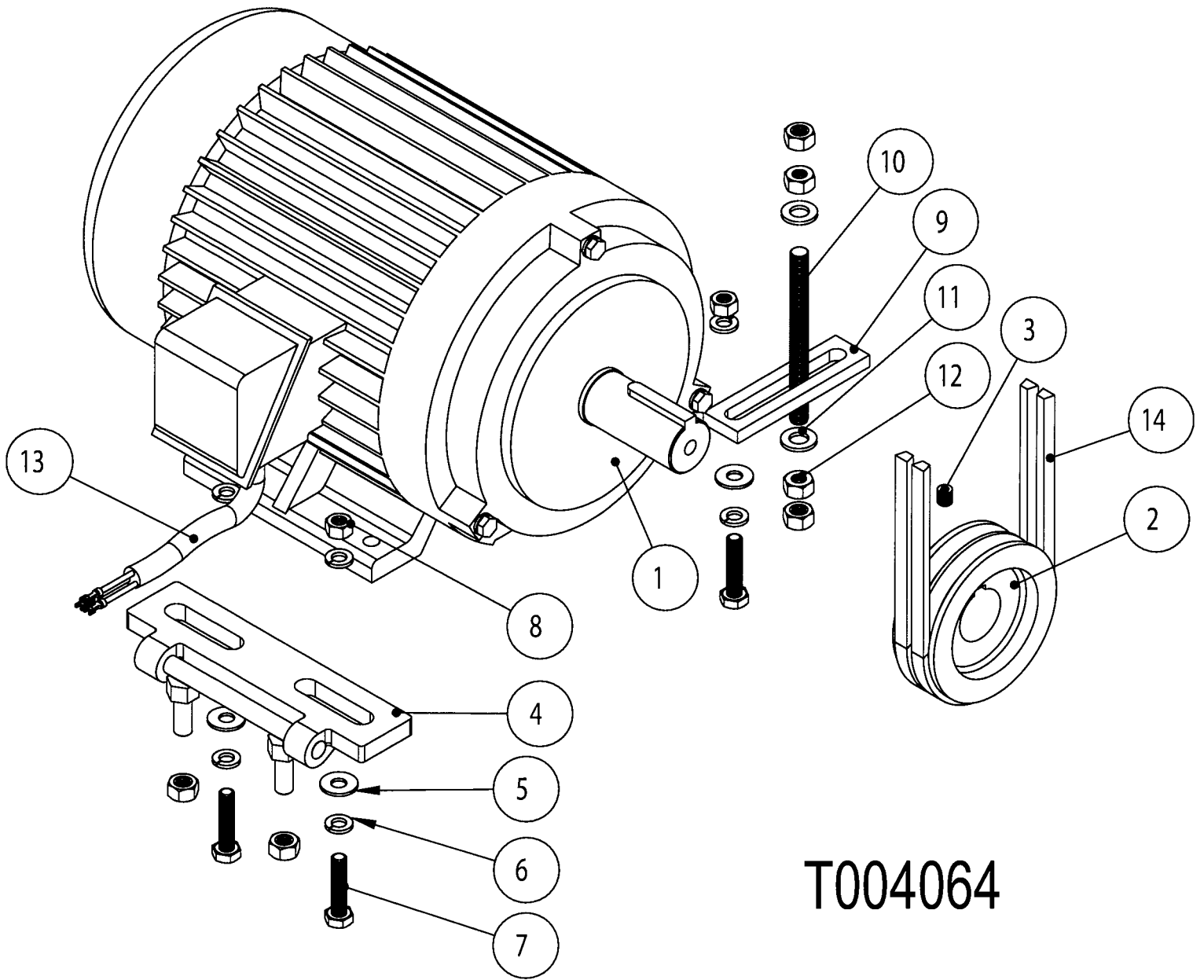
LARGE CAPTAINS WHEEL FOR EASY DEPTH ADJUSTMENTS gives you full control over your jointing depth. Dovetailed ways keep the table stable and true.



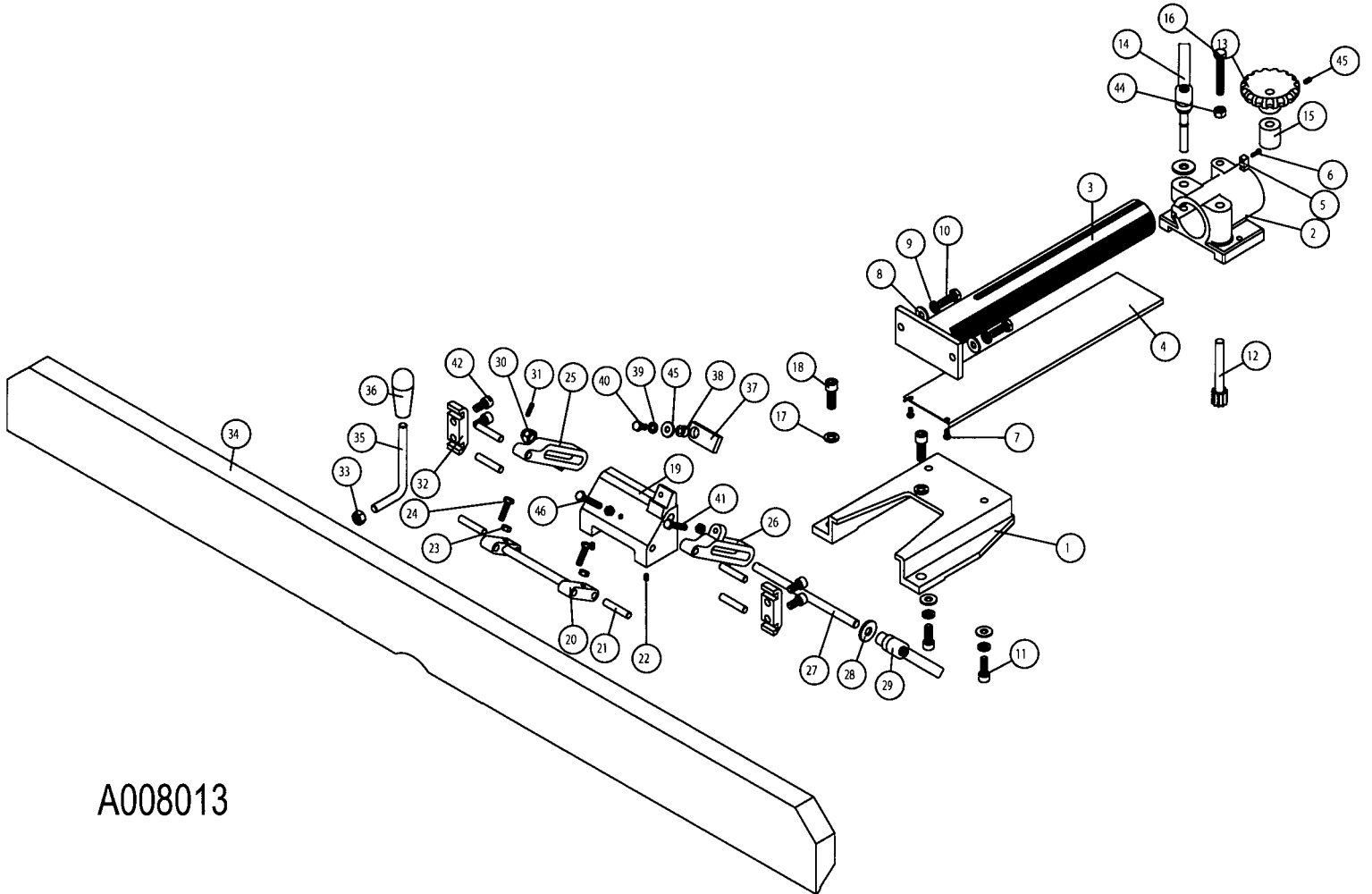
CONVENIENTLY LOCATED ON/OFF SWITCH allows for easy operation.

A001043

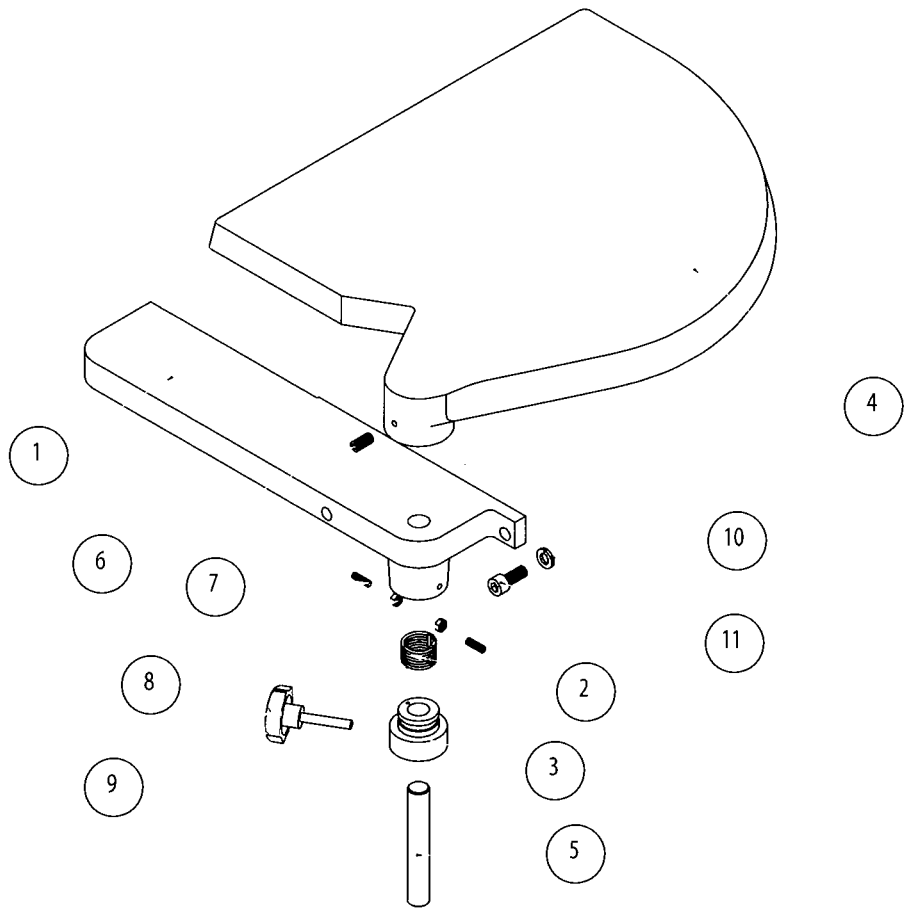




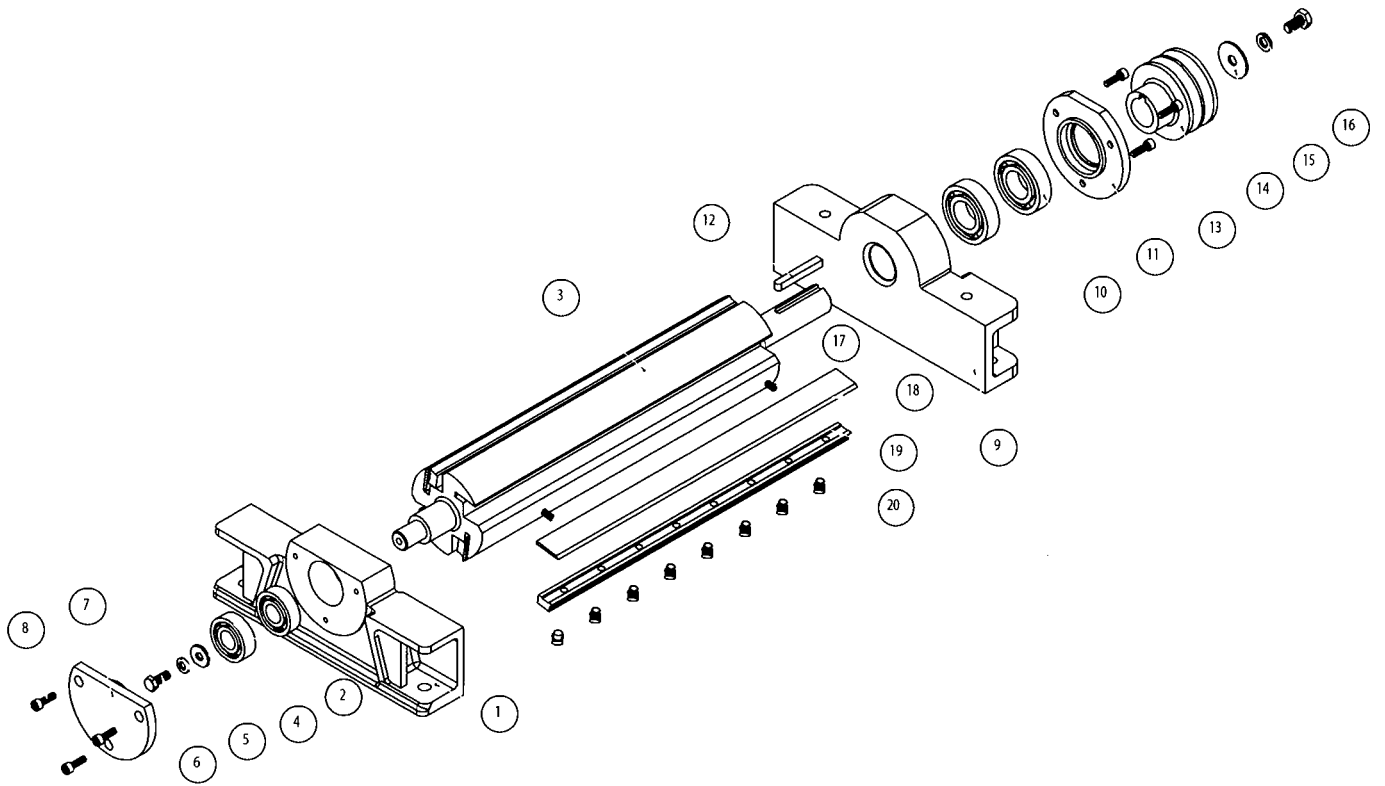
T004064



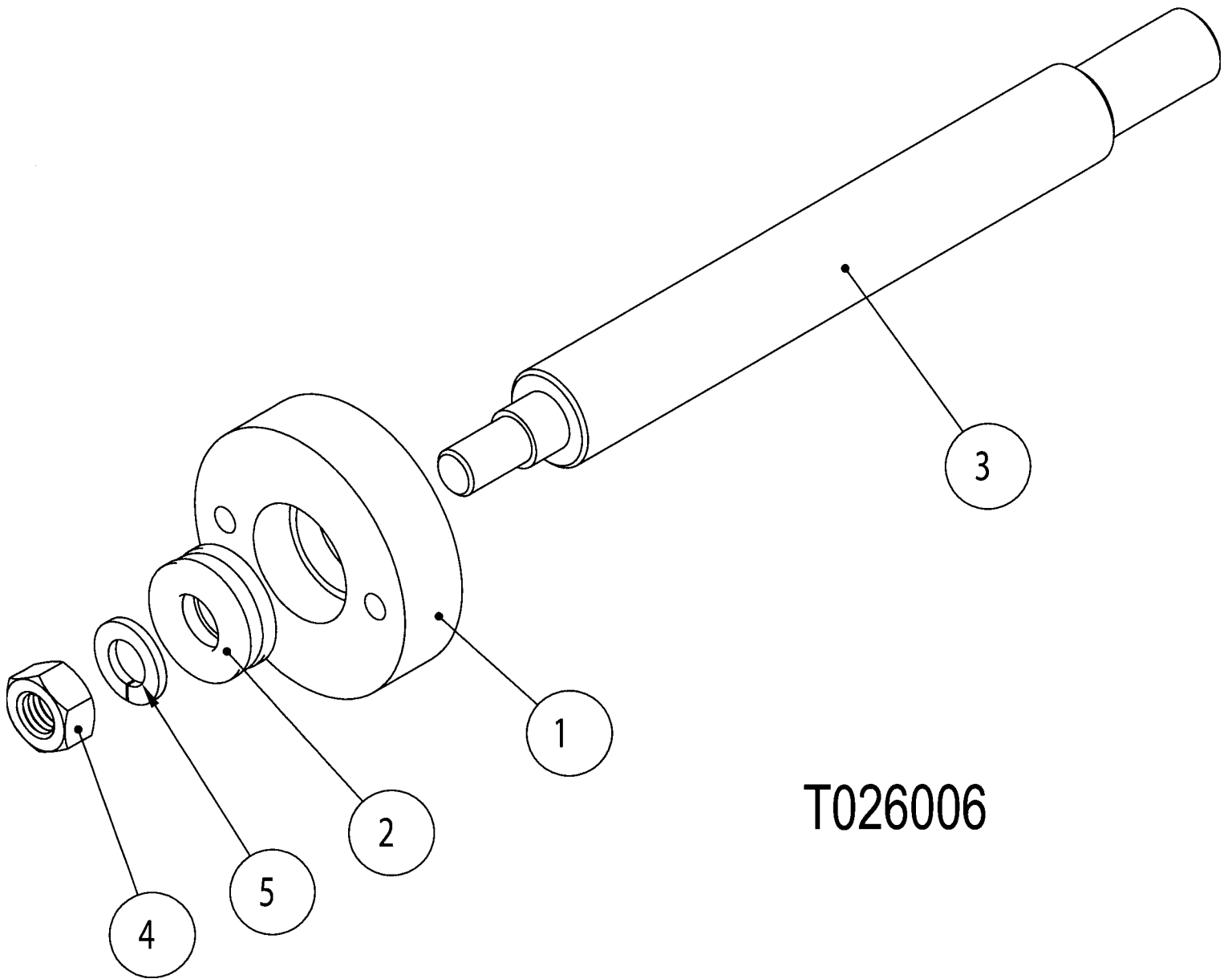
A008013



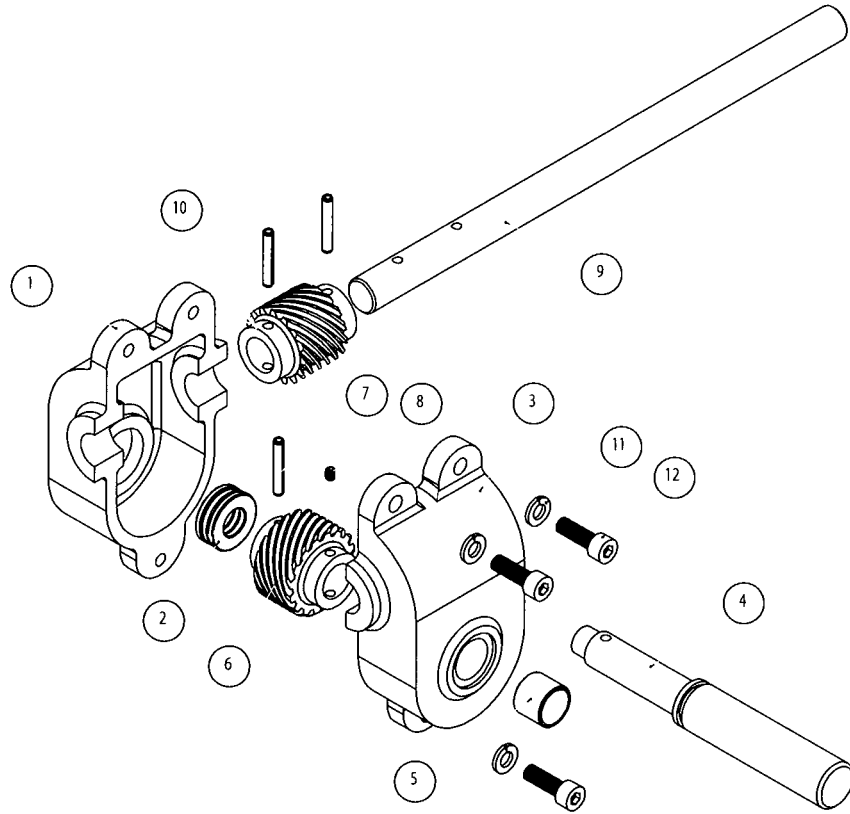
T025028



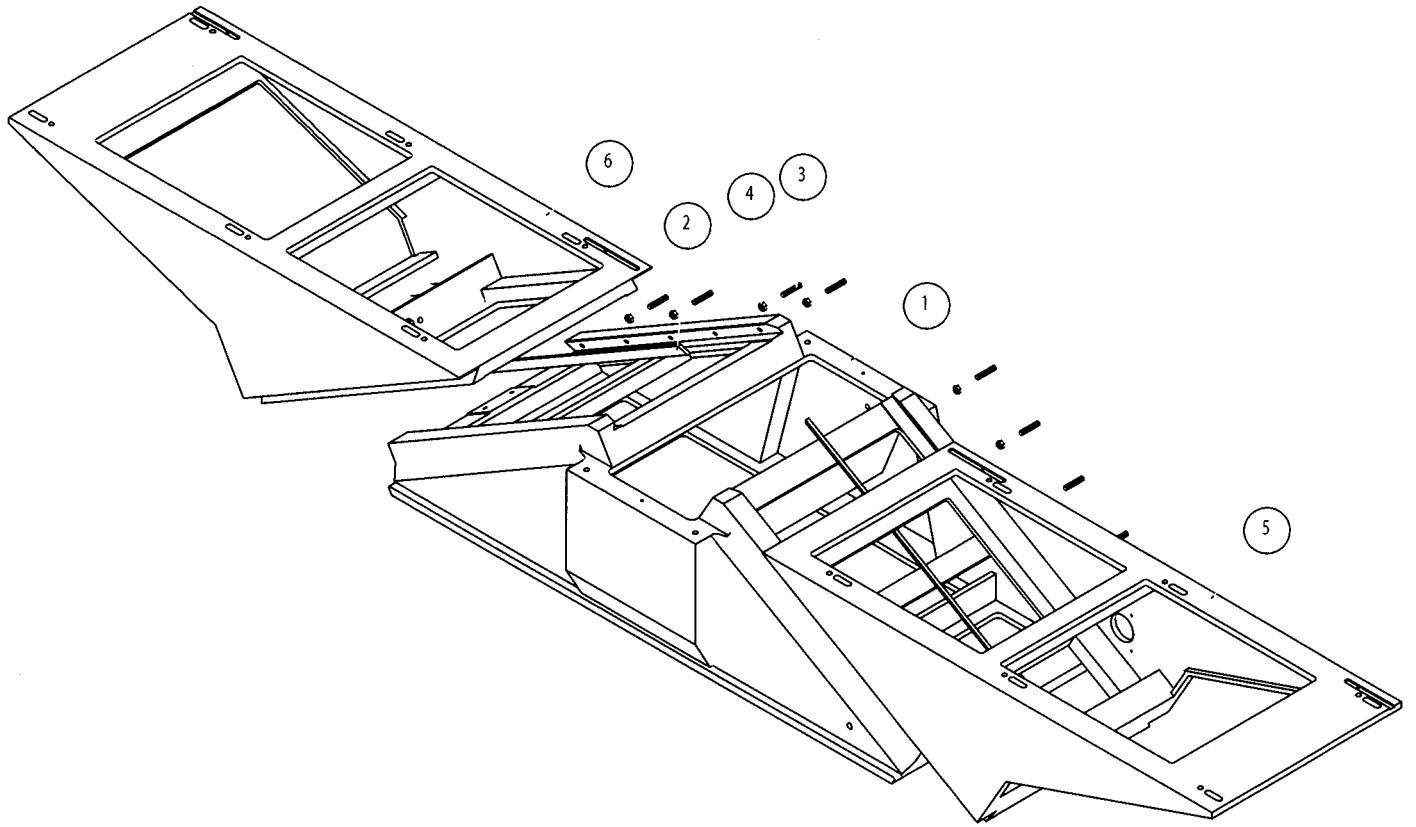
T001058



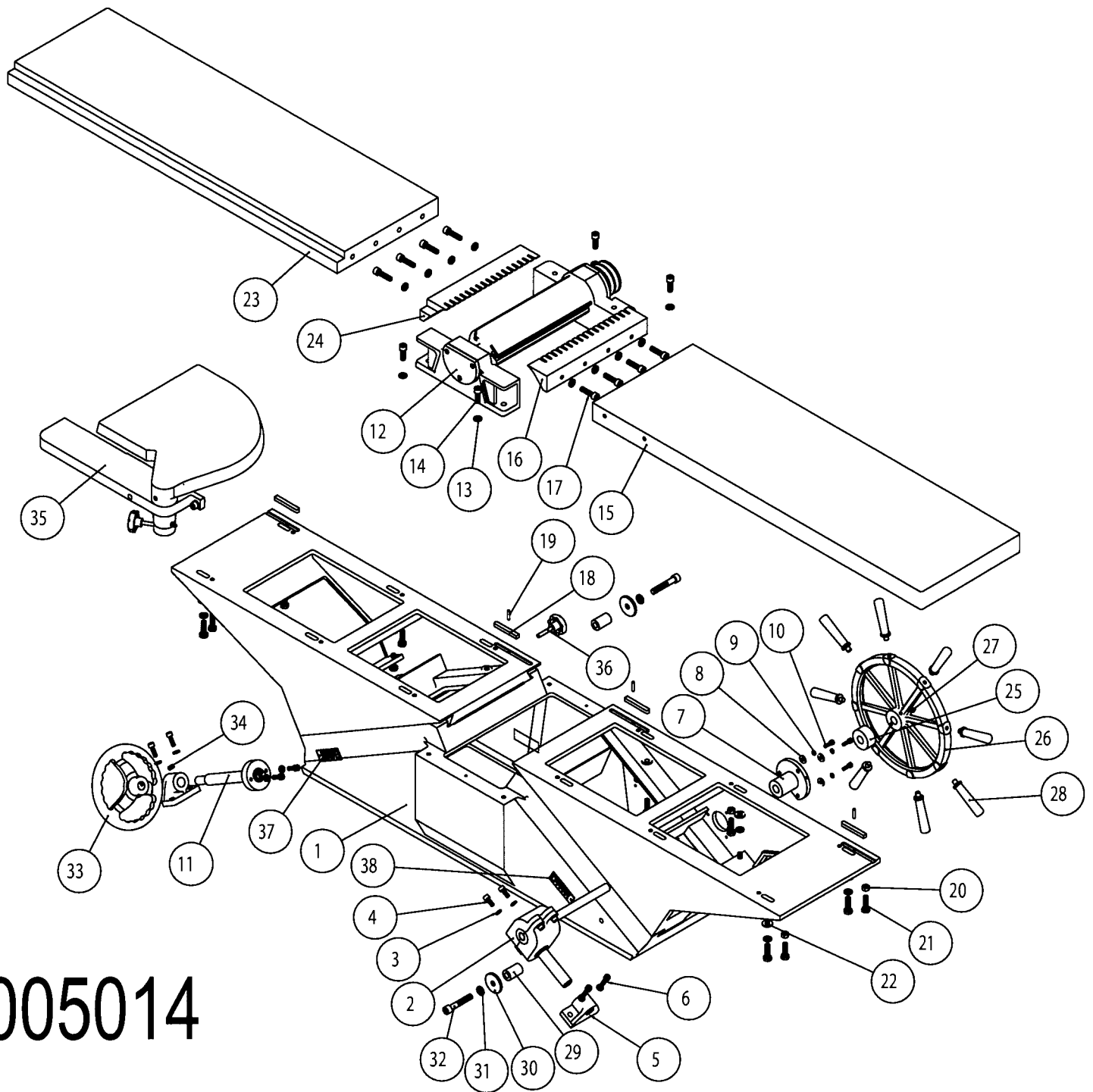
T026006



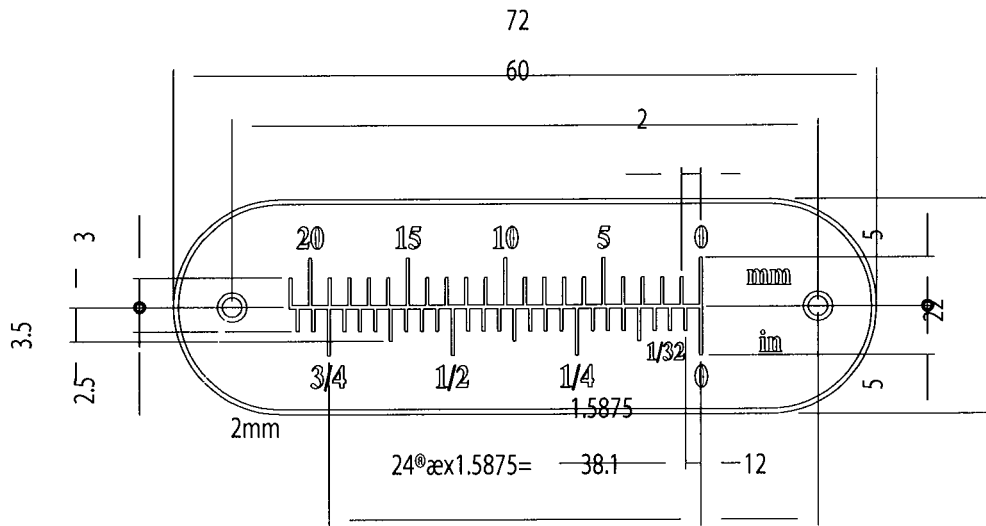
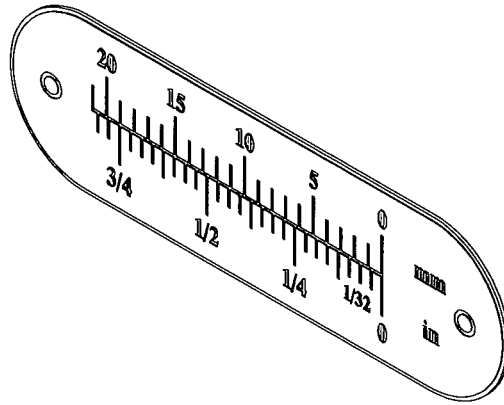
T016016



T034001



A005014



P108106

4270 Parts List

<u>A001043</u>			
NO.	PARTS NO.	DESCRIPTION	Q'TY
1	C002038	Stand	1
2	S282111	Flat Washer	10
3	S284008	Lock Washer	4
4	S137005	Screw, M10x30L	4
5	T004064	Motor Pulley Assy.	1
6	S273043	Nut	3
7	C022133	Plate	1
8	C022134	Plate	1
9	S284006	Lock Washer	11
10	S201002	Screw, M6x12L	2
11	P074706	Contact	1
12	P092303	Cord Clamp, M25	3
13	S132003	Junction Box	1
14	S284025	Spring Washer	2
15	S239003	Screw, 3/16"x1"L.	2
16	S313001	Terminal Strip	1
17	S239007	Screw, M5x25L	2
18	C019192	Screw Arm	1
19	S135003	Screw, M6x16L	2
20	T020063	Switch	1
21	S225002	Screw, M5x10L	4
22	C077060	Dust Chute	1
23	S135001	Screw, M6x12L	7
24	C073095	Right Side Door	1
25	P027001	Latch	1
26	S226002	Screw, M6x10L	4
27	C076063	Guard	1
28	C034087	Screw, M10x105L	3
29	S282111	Flat Washer	6
30	S273042	Nut	6
31	S277005	Nut	3
32	P110214C4	Switch Cord	1
33	P100304C4	Control Cord	1

T004064			
NO.	PARTS NO.	DESCRIPTION	Q'TY
1	P041207R	Motor	1
2	C064143	Motor Pulley	1
3	S214013	Screw, M10x10L	2
4	C063057	Motor Bracket	1
5	S282011	Flat Washer	3
6	S284008	Lock Washer	6
7	S137019	Screw, M10x45L	3
8	S273042	Nut	3
9	C015033	Support	1
10	C048005	Rod	1
11	S282012	Flat Washer	2
12	S273043	Nut	6
13	P100302C4	Motor Cord	1
14	S300035	V-Belt, A54	2

A005014			
NO.	PARTS NO.	DESCRIPTION	Q'TY
1	T034001	Table Base Assy	1
2	T016016	Level Gear Assy.	1
3	S284007	Lock Washer	4
4	S202005	Screw, M8x20L	2
5	C015186	Support	2
6	S202006	Screw, M8x25L	6
7	C015017	Support	1
8	S282106	Flat Washer	3
9	S284006	Spring Washer	9
10	S201006	Screw, M6x20L.	3
11	T026006	Bearing Housing Assy.	1
12	T001058	Cutterhead Assy.	1
13	S284008	Spring Washer	24
14	S203006	Screw, M10x30L	4
15	C006114	Infeed Table	1
16	C087016	Infeed Table Lip	1
17	S203008	Screw, M10x40L	8
18	S003213	Key	4
19	S267508W	Pin	4
20	S273042	Nut	12
21	S137006	Screw, M10x35L	12
22	S282110	Spring Washer	12
23	C006115	Outfeed Table	1
24	C087017	Outfeed Table Lip	1
25	C051080	Collar	1
26	C057056	Wheel	1
27	S212001	Screw, M6x10L	1
28	C057057	Knob Handle	8
29	C039005	Collar	2
30	C053021	Washer	2
31	S284009	Lock Washer	2
32	S204009	Screw, M12x70L	2
33	P025002	Handle	1
34	S213001	Screw, M8x12L.	1
35	T025028	Guary Assy	1
36	P031005	Knob	1
37	P108106	Depth Label, Left	1
38	P108107	Depth Label, Right	1
39	C022135	Limit	2
40	S201009	Screw, M6x35L	4
41	C051101	Collar	2
42	S201008	Screw, M6x30L	2
43	S273039	Nut	4
44	S211005	Screw, M5x16L	4
45	P063401	Pointer	2

<u>T034001</u>			
NO.	PARTS NO.	DESCRIPTION	Q'TY
1	C004060	Table Base	1
2	C007049	Plate	2
3	S213009	Screw, M8x40L	9
4	S273041	Nut	9
5	C044045	Sliding Table, Right	1
6	C044044	Silding Table, Left	1

<u>T016016</u>			
NO.	PARTS NO.	DESCRIPTION	Q'TY
1	C015187	Level Gear Support, Left	1
2	S043003	Bearing	1
3	C015188	Level Gear Support, Right	1
4	C035018	Level	1
5	P051001	Bushing	1
6	C029012	Gear	1
7	S267510W	Pin	3
8	S211013	Screw, M5x6L	1
9	C047093	Shaft	1
10	C029013	Gear	1
11	S284007	Spring Washer	3
12	S202006	Screw, M8x25L	3

<u>T026006</u>			
NO.	PARTS NO.	DESCRIPTION	Q'TY
1	C009083	Collar	1
2	S043003	Bearing	1
3	C035017	Level	1
4	S273043	Nut	1
5	S267505W	Pin	1

T001058			
NO.	PARTS NO.	DESCRIPTION	Q'TY
1	C009082	Bearing Housing, Left	1
2	S026129	Ball Bearing	2
3	C011029	Cutterhead	1
4	S282109	Flat Washer	1
5	S284007	Spring Washer	1
6	S136103	Screw, M8x20L.	1
7	C010007	Left Bearing Cover	1
8	S201006	Screw, M6x20L	6
9	C009081	Bearing Housing, Right	1
10	S026135	Bearing	2
11	C010008	Right Bearing Cover	1
12	S003178	Key	1
13	C064020	Cutterhead Pulley	1
14	S282049	Washer	1
15	S284008	Spring Washer	1
16	S137103	Screw, M10x20L	1
17	C060014	Spring, Cutterhead	8
18	P054007	Knife	4
19	P056008	Knife Gib	4
20	S161004	Gib Screw	32

T025028			
NO.	PARTS NO.	DESCRIPTION	Q'TY
1	C015189	Rabbeting Table	1
2	C060018	Spring	1
3	C051033	Collar	1
4	C075118	Guard Assy	1
5	C046025	Shaft	1
6	S214004	Screw, M10x20L	1
7	S212006	Screw, M6x20L	2
8	S273040	Nut	2
9	P031005	Knob	1
10	S284008	Spring Washer	2
11	S203005	Screw, M10x25L	2

A008013			
NO.	PARTS NO.	DESCRIPTION	Q'TY
1	C015039	Fence Support	1
2	C015034	Bracket	1
3	C032015	Gear Column	1
4	C051028	Guard, Cuttemead	1
5	S199005	Screw, M4x14L	1
6	C074171	Safety Guard	1
7	S233003	Screw, M6x12L	2
8	S282011	Flat Washer	4
9	S284008	Spring Washer	4
10	S203005	Screw, M10x25L	6
11	S203006	Screw, M10x35L	2
12	C039006	Pinion Gear	1
13	C052127	Hand Wheel	1
14	C057013	Handle	1
15	C057011	Collar	1
16	S137010	Screw ,M10x70L	1
17	S284022	Spring Washer	2
18	S187005	Screw	2
19	C015035	Fence Bracket	1
20	C015040	Fence Hinge	1
21	C039009	Fence Hinge Shaft	6
22	S212001	Screw, M6x10L	2
23	S273041	Nut	4
24	S136005	Screw, M8x30L	2
25	C015036	Left Tilt Bracket	1
26	C015037	Right Tilt Bracket	1
27	C046019	Support Shaft	1
28	S282114	Flat Washer	2
29	C057012	Locking Handle	1
30	S277006	Cap Nut	1
31	S267163	Pin	1
32	C015038	Fence Hinge Base	2
33	S273043	Nut	1
34	C020096	Fence	1
35	C046020	Handle Rod	1
36	P031012	Handle	1
37	C020005	Stop Plate,90 Degree	1
38	C052128	Collar	1
39	S282109	Flat Washer	1
40	S284007	Lock Washer	1
41	S136002	Screw, M8x18L	1
42	S136007	Screw, M8x40L	1
43	S136018	Screw, M8x55L	1
44	S212002	Screw, M6x12L	1
45	S273042	Nut	1
46	P097050	Plastic Bag	1