WOODWORKING JOINTER / PLANER MODEL: CPT10 & CPT12



USER'S OPERATING MANUAL & SERVICE INSTRUCTIONS

CAUTION: Read the instruction manual before using the appliance

Foreword

These instructions have been created by the device manufacturer and are an integral part of the machine delivery. They contain basic information for qualified operating staff and describe the environment and manners of the machine use for which it has been designed, and also contain any information necessary for the correct and safe operation.

The machine is equipped with various safety devices protecting both the operator and the machine for its common technological use. Nevertheless these measures cannot cover all safety aspects and therefore it is necessary that the operator should read and understand these instructions before starting to use the machine. Errors made in the course of installation as well as during operation itself will thus be avoided.

Do not try therefore to put the machine into operation before you have read all instructions for use supplied together with the machine and before you have understood all its functions and working procedures.

Certain information or drawings may not be intended directly for the machine purchased by you as these instructions contain any information for various variants of this type made by our company. By comparing the respective part of the instructions with a particular machine you will find out whether or not they correspond to each other.

The manufacturer reserves the right to make partial alterations within continuous technical machine development.

Use of the machine

Purpose of the machine

The machine is designed as a combined planer and thicknesser machine for use in joiners shops (plants) at lengthwise (related to wood fibres) processing of wood and materials on its base.

The machine is designed for operation performed by one worker only.

The machine may not be handled by children and youngsters in any manner.

Workers' qualifications

Only an expert skilled in the field of wood-machining or a worker instructed and trained by such expert may operate the machine, regardless of the sex. While working on the machine the operator must get familiar with these instructions and comply with any safety rules, regulations and provisions in force in the respective country.

Working environment

The machine must be operated in a workshop environment the temperature of which does not exceed +40°Cand does not drop below +5°C. The relative humidity of ambient is from 30% to 95%, non-condensing. The height above the sea level is up to 1000 m.

Storage and transportation temperature: -25~55°C

Safety instructions

General

This machine is equipped with various safety devices protecting both the operator and the machine. Nevertheless, this cannot cover all safety aspects and therefore the operator, before putting the machine into operation, must read this chapter and understand it fully. Furthermore the operator must also take into account other aspects of danger relating to the surrounding conditions and material.

Basic safety requirements

- Before connecting the machine to the mains make sure that all safety items are in their active positions and check their functioning. If it is necessary to remove the doors or protective covers, turn off the switch and disconnect the plug from its socket.
- Kick-back catchers must be freely movable and their functioning must be checked regularly, maybe several times a day.
- Do not connect the machine to the mains while the door or protective cover is removed.
- In order to avoid improper operation get acquainted with the location of switches before switching the machine on.
- Remember the position (location) of the emergency stop switch so that you can use it promptly at any time.
- Be careful and do not touch any switches while the machine is being operated.
- Do not touch any rotating tool by hands or with any other object under any circumstances.
- In the case that you are not going to work on the machine, turn off the machine by the switch and disconnect the plug from the supply socket.
- Before cleaning the machine, switch off the machine and disconnect the plug of the machine.
- Before doing any maintenance work inside the machine, switch off the machine and disconnect the plug of the machine.
- Do not alter the machine in any manner which might cause any risk to its safe operation.
- If you have any doubts on correctness of your procedure, contact a responsible person.
- Do not neglect performance of regular inspections in accordance with the instructions for use.
- Check and make sure that no disturbances occur on the machine caused by the user.
- After the work is finished, adjust the machine so that it is ready for another series of operations.
- Should a failure in power supply occur, switch off the machine immediately.
- Do not paint, make dirty, cause any damage to, alter or remove safety plates. If they become
 illegible or lost, contact the manufacturing plant and renew the plates.
- Keep work area clear. Cluttered areas and benches cause injuries.
- Consider work area's environment. Do not expose tools to rain. Do not use tools in damp or wet location. Keep work area well lighted .Do not use tools in the presence of flammable liquids or gases.

Clothes and personal safety

Experience shows that injuries are caused by various personal articles, e.g. rings, watches, bracelets, necktie etc. Therefore take them off before starting the work, button the sleeves, take off a tie, which may be caught with various parts of the working machine. Wear hair protection and fasten hair properly to avoid catching by moving part. Wear suitable tight cloth, shoes

recommended or prescribed by labour-safety regulations of all countries.

- Wear safety outfit (goggles, apron, safety shoes, hearing protection etc.).
- In the case of any obstacles above your head in the working area wear a helmet.
- Always wear a protective mask while machining any material that produces dust while being machined.
- Never wear any loose working clothes.
- Do not work on the machine under influence of drugs or alcohol, and when you are tired.

Safety regulations for operators

Do not put the machine into operation before you get acquainted with the contents of the instructions for use.

- Make sure that electric cables are not damaged so that injuries caused by electric current leaking (electric shocks) are avoided.
- Check regularly that safety covers are mounted properly and that they are not damaged. Repair damaged covers immediately or replace with other ones by a qualified person.
- Do not put the machine into operation with the cover removed.
- Never use any tools that are distorted, broken or blunt.
- Always use the tool suitable for the work given, which corresponds to the machine specifications.
 The tools, cutter blocks, must be in accordance with EN 847-1.
- Replace blunt tools as soon as possible, as blunt tools may cause injuries or damage.
- Never use the tools at speeds higher than their recommended rated speeds by the respective manufacturer.
- Stop all functions of the machines before replacing tools and pull out the plug from the supply socket.
- Do not remove or interfere otherwise in safety devices such as covers, limit switches.
- While handling parts above your possibilities, ask for helps from a qualified person.
- It is not recommended to work on the machine during a storm.

Safety regulations for maintenance

Maintenance and repair must be performed by a qualified person. Do not do maintenance work before you get acquainted with the instructions for maintenance thoroughly.

- Before you start to perform any maintenance work, always turn off the switch and pull out the plug from supply socket. A possibility of accidental putting the machine into operation by another person is thus avoided.
- Any maintenance work on electric parts of the equipment may be done by a qualified person only.
- Even if the machine is stopped, the power supply is not disconnected. Always disconnect the plug from supply socket.
- Do not clean the machine or its peripheral devices even if the machine is completely out of operation, unless the plug has been disconnected from supply socket. Keep your fingers in a distance from belts and belt pulleys.
- While replacing electrical parts of the equipment, turn off the switch and disconnect the plug from supply socket. Faulty parts should be replaced only with products having the same specifications as the original ones.
- Do not remove or interfere otherwise in safety devices such as covers, limit switches, and do not block them mutually.

- Do not switch the machine on before all covers removed for the purposes of maintenance are put in their places again.
- Always keep the maintenance area including the working place clean.
- Any maintenance work must be done by a qualified staff in accordance with the instructions issued by the machine manufacturer.
- Read the instruction manual for maintenance men carefully and completely.
- For replacement of parts and necessary things, get in advance those being identical with the original type and complying with standards.
- Use only specified kinds or lubricating oils and grease or those equivalent to them.
- If any belt in the set of belts used gets longer than the limit prescribed, replace the whole set completely.
- Do not use compressed air to clean the machine or to remove chips.
- Always check the results while a responsible person is present.

Safety regulations for place of work

- Always ensure a sufficient working area and free access to the machine and peripheral devices.
- Put tools and any other obstacles in the place designed for this purpose, in a distance from the machine.
- Ensure sufficient lighting in the working area which will not create shadows or cause the stroboscopic effect. For safe and quality work the hygienic standards specify the minimum intensity 500 lux.
- Never put any tools or any other objects on working tables or covers.
- Always keep the working area clean and tidy.

Transport and storage

Transport and storage

While transporting or handling the machine, be most careful and let this activity be done by qualified personnel especially trained for this kind of activity.

While the machine is being loaded or unloaded, make sure that no person or subject gets pressed by the machine!

Do not enter the area under the machine lifted by a crane or a high-lift trolley!

During transporting or storing the machine, means must be taken to protect the machine against excessive vibrations and humidity.

It should be stored in a shelter at temperatures ranging from -25°C to 55°C.

As standard, the machine is wrapped up in a plastic tray and is transported this way. Upon request the machine may also be packed in a robust wooden box.

Specifications

CPT10	CPT12
ModelCPT10	ModelCPT12
Power220V, 1Ph	Power220V, 1Ph
Motor.Output. 1.75kw(Input 2.2kW)	Motor.Output. 2.2kw (Input 3.0kW)
Width27.5" (700mm)	Width29.5" (750mm)
Height39.4" (1000mm)	Height39.4" (1000mm)
Length44.3" (1125mm)	Length51.2" (1300mm)
Table Size (L x W)44.3" x 10" (1125 x 245mm)	Table Size (L x W)51.2" x 12" (1300 x 310mm)
Cutter HeadRPM 5300	Cutter HeadRPM 5500
Fence Size27.5" x4.84" (700 x 123mm)	Fence Size43.3" x 6" (1100 x 150mm)
Fence Tilt	Fence Tilt
Maximum Depth of Cut 1/8" (3.0mm)	Maximum Depth of Cut1/8" (3.0mm
Cutter Head Diameter2.75" (70mm)	Cutter Head Diameter2.75" (70mm)
Maximum Stock Width10" (254mm)	Maximum Stock Width12" (308mm)
Number of Knives3 pcs	Number of Knives3pcs
4Grooves Helical with 44pc inserts	- 5Grooves Helical with 60pc inserts
Maximum Stock Height 8.9" (225mm)	Maximum Stock Height 8.9" (225mm)
Minimum Stock Thickness 0.2" (5mm)	Minimum Stock Thickness 0.2" (5mm)
Feed Speed 17.5 FPM (5.5 mpm)	Feed Speed 17.5 FPM (5.5 mpm)
Table Elevation Manual	Table Elevation Manual
Planer Working Table .10" x 21.5" (254 x545mm)	Planer Working Table .12." x 21.5" (308 x545mm)
Planer Maximum Working Width10" (254mm)	Planer Maximum Working Width .12" (310mm)
Thicknesser Max. Working Height.8.9" (225mm)	Thicknesser Max. Working Height.8.9" (225mm)
Dust port diameter4.0" (100mm)	Dust port diameter4.0" (100mm)
Net Weight170kg	Net Weight210kg

Specifications concerning noise of the device

Level of noise A in the place of operation (LpAeq)	No-load	L _p A _{eq} =81.7 dB(A)
	Load	L _p A _{eq} =89.5 dB(A)
Level of acoustic power A (LWA)	No-load	Lwa = 94.5 dB(A)
	Load	Lwa = 103 dB(A)

Operating conditions for noise measurement comply with annex B of ISO 7960.

The values given are those of emissions and do not necessarily mean any safe working values. Although there is a correlation between the value of emissions and the levels of exposure, these values cannot be used for reliable determination whether or not additional measures are necessary. The factors influencing actual levels of workers' exposure include the properties of the working area, other sources of noise etc., e.g. the number of machines and the other neighbouring procedures. Also the highest permissible levels of exposure may vary in different countries. This information should help the machine user to evaluate the risk and the risk rate in a better manner.

Features and Terminology

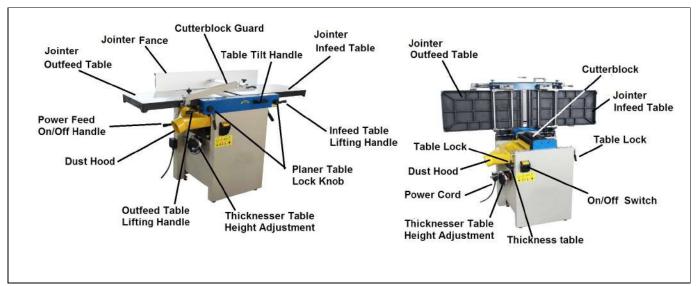


Figure 1

Receiving

Carefully unpack the machine and any loose items from the wood crate and inspect for damage. Any damage should be reported immediately to your distributor and shipping agent. Before proceeding further, read your manual thoroughly to familiarize yourself with proper assembly, maintenance and safety procedures.

Remove the screws that hold the machine to the shipping skid. Remove the protective coating from the table, bed rolls, feed rolls, cutterhead

and loose items packed with the machine. This coating may be removed with a soft cloth moistened with kerosene. Do not use acetone, gasoline or lacquer thinner for this purpose. Do not use solvents on plastic parts.

Unpacking

- 1. Remove all contents from the shipping carton. Do not discard the carton or packing material until the machine is set up and running satisfactorily.
- 2. Inspect the contents for shipping damage. Report damage, if any, to your distributor. *Tools Required for Assembly*
- 2 Cross-point Screwdriver
- 1 5mm Hex Wrench
- 1 6mm Hex Wrench

Note: Use of sockets and ratchets will speed assembly time but are not required.

Electrical Connection

All electrical connections must be done by a qualified electrician. All adjustments or repairs must be done with the machine disconnected from the power source, plugged. Failure to comply may result in serious injury!

The circuit for the machine should also be protected by at least a 20 amp circuit breaker or fuse.

Make sure that the cutterhead moves in the correct direction. If it does not, simply reverse two of the phase wires on the supply input.

Operating Controls

Disconnect machine from power source before making any adjustments. Failure to comply may cause serious injury.

Cutterhead knives are dangerously sharp. Use extreme caution when working around them. Failure to comply may cause serious injury.

Jointer to Planer Setup

To change the machine configuration jointer to planer (refer to Figure 2):

- 1. Release both cabinet table locks (A) by rotating the handles toward the operator, then pulling away from the machine.
- 2. Raise the table (C) using the handle (B).

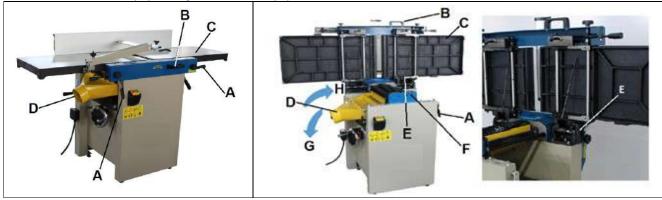


Figure 2 Figure 3

Table is heavy. Use care when raising. Failure to comply may cause serious injury.

When raised, the table should be in the vertical position as shown in C, Fig. 3. The latch (E, Fig. 3) should be engaged, preventing the table from an accidental forward fall.

3. Position the dust chute (D, H Fig. 3) to the right. Use extreme care to avoid contact with cutterhead knives.

Note: The planer table may need to be lowered to allow clearance needed to position the dust chute.

Use care and planning when attaching and routing flexible hose for dust collection. DO NOT create a trip hazard or an interference of the work station when routing the hose(s).

The 4.0" (100mm) dust port is part of and on the end of the dust hood/guard.

Planer to Jointer Setup

Referring to Figure 3: To change the machine configuration from planer to jointer:

1. Pull the release knob (F) and reposition the dust chute (D, G) to the left. It should be positioned as shown in D, Fig. 2.

Table is heavy. Use care when lowering. Failure to comply may cause serious injury.

- 2. Release the latch (E) and bring the table forward using the tilt handle (B). It should be positioned as shown in C, Fig. 2.
- 3. Lock the table (C) by pushing the lock handles (A) in toward the machine and rotating down (away from the operator).

Power

Once a properly rated plug is connected, plug power cord into outlet. Press the green on button (A,

Fig. 4) to start. Press the red off button (B, Fig. 4) to stop.



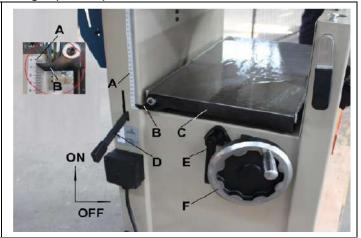


Figure 4

Figure.5

Planer Controls and Adjustments

Referring to Figure 5:

Power Feed

Placing the planer power feed handle (D) in the up position turns the planer power feed on (see arrow). Placing the handle in the down position turns the power feed off.

Table Lock

Turn the table lock (E) clockwise to lock the height adjustment handwheel (F) and secure the planer table (C) in its selected position. Turn the table lock (E) counterclockwise to release and permit table adjustment.

Table Height Adjustment

The planer table height is set as follows:

- 1. Unlock the table lock (E).
- 2. Rotate the height adjustment handwheel (F) clockwise to raise the planer table (C), counterclockwise to lower.
- 3. Lock the table lock (E). Each revolution of the handwheel (F) results in a 4mm up or down movement of the table (C). A scale on the handwheel column indicates the amount of handwheel rotation. A pointer (B) indicates the table position relative to the cutterhead on the scale (A) located on the side of the cabinet.

Jointer Controls and Adjustments

Referring to Figure 6:

Outfeed Table Height Adjustment

Lock knob (C) and lifting handle (B) control the height adjustment of the outfeed table (A). The outfeed table is initially adjusted at the factory and should not be repositioned except during certain adjustments.

Infeed Table Height Adjustment

Lock knob (D) and lifting handle (E) control the height adjustment of the infeed table (F). To adjust:

- 1. Loosen lock knob (D).
- 2. Raise the lifting handle (E) to raise the infeed table for a shallow depth of cut. Lower the handle for a deeper cut.
- 3. Tighten the lock knob (D).

Note: A depth of cut of 1.5mm or less is recommended.

Cutterhead Guard

Properly positioned, the cutterhead guard (H) should rest against the fence (A).

Fence Movement

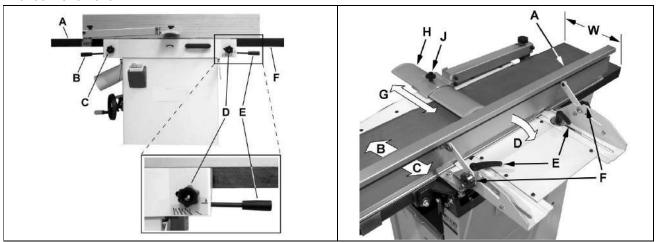


Figure 6 Figure 7

Referring to Figure 7:

The fence (A) can be moved forward (B) or backward (C) across the width (W) of the table. It also tilts up to 45 degrees backwards (D).

Loosen the lock knob (J), slide the guard into position, then tighten the lock knob.

To slide fence forward or backward: When edge jointing, the fence assembly should periodically be moved to different positions to distribute wear on the cutterhead knives. This is done as follows:

- 1. If necessary, loosen the cutterhead guard (H) to permit the fence assembly to move freely without being constrained by the guard.
- 2. Loosen two fence assembly locking handles (E).
- 3. Move the entire fence assembly to the desired position; then re-tighten the handles (E).
- 4. Readjust and secure the cutterhead guard. To tilt fence backward:

The fence (A) can be tilted backward (D) up to 45°(that is, for a total included angle of 135° from table surface) as follows:

- 1. Loosen locking handles (F).
- 2. Tilt the fence back (A, C) to the desired angle up to 135 degrees. Or you can place your beveled reference piece on the table and against the fence, adjusting the fence until the angle of the fence matches the bevel of your gauge piece.
- 3. Tighten the locking handles (F).
- 4. Readjust and secure the cutterhead guard.

Adjustments

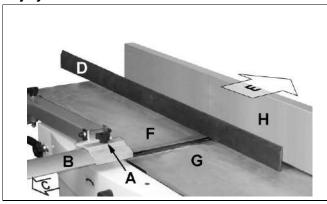
Table and Knife Adjustments

For accurate jointing, at least three things must be true:

- 1. Infeed and outfeed tables must be coplanar.
- 2. Knives or knife inserts must be set in the cutterhead so that the highest point of their arc is level with the outfeed table.
- 3. On the standard cutterhead, knives must be parallel with the outfeed table across the entire length of the knives.

These alignments are explained below.

Disconnect machine from power source before making any adjustments. Failure to comply may cause serious injury.



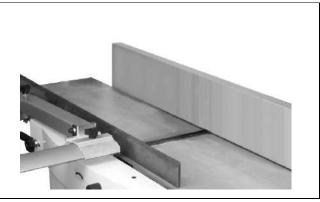


Figure 8 Figure 9

Coplanar Alignment

Definition of coplanar

When the infeed table is set to the same level as the outfeed table and together both tables form a "perfect" flat surface, the tables are said to be coplanar.

For optimum performance of the jointer, the infeed and outfeed tables must be coplanar. If they are not, the finished workpiece may have a slight taper or twist across jointed its width or length.

Determining if tables are coplanar

The tables have been set coplanar at the factory, but they should be double-checked by the operator. Also, as the machine undergoes use, the tables should be checked ccasionally and adjusted if necessary.

The procedure described below uses a steel straight edge to set the tables, which should be accurate enough for most purposes.

Important: The tables must be locked in position when performing the following test. Referring to Figures 8 and 9:

- 1. Disconnect jointer from power source.
- 2. Loosen the lock knob (A) and slide the cutterhead guard (B, C) to clear the table.
- 3. Slide the fence assembly back (H, E) as far as it will go, or remove it from the machine entirely.
- 4. Rotate the cutterhead to avoid knife interference.
- 5. Place a straight edge (D) across the front of the outfeed table (F) and extending over the infeed table (G). Note the position of the infeed table (G). Note the position of the straight edge in Figure 6 with respect to the fence (H).
- 6. Raise the infeed table (G) until it contacts the straight edge (D).

The straight edge should lie level across both tables. Move the straight edge to the back of the outfeed table as shown in Figure 9 and perform the same test.

If the straight edge does not lie level, the front or back of one of the tables must be adjusted to make the tables coplanar. Proceed as described in

Performing the Coplanar Alignment

If alignment is required as determined in the previous section, proceed as follows:

AWARNINGDisconnect machine from power source before making any adjustments. Failure to comply may cause serious injury.

- 1. Disconnect power from machine.
- 2. Unlock both cabinet lock handles (A2 Fig.10).
- 3. Raise the table (D) fully upright. Adjustment is performed by means of four setscrews (B2) that

adjusts the table pitch and tilt at the back (towards the fence) and two hex cap screws (A1) that adjusts the table toward the front.

Adjustment can consist of a front adjustment, rear adjustment or (more probable) a combination of both.

Rear adjustment

Tools required – 13mm wrench, 4mm hex wrench

- 1. With a 13mm wrench, loosen three hex cap screws (B1).
- 2. Using a 4mm hex wrench, make very slight adjustments of 1/8 to 1/4 turns to four setscrews (B2) as required. A clockwise turn will raise the table; a counterclockwise turn will lower the table. Adjusting the two right setscrews will have greatest adjustment impact to the table's right side; adjusting the two left setscrews will have greatest adjustment impact to the table's left side.
- 3. When adjustment is complete, tighten the hex cap screws (B1)

Front adjustment

Tools required – two 13mm wrenches

- 1. Hold the hex cap screws (A1) in place with one wrench while using the other to loosen the locking hex nuts.
- 2. Adjust the screws (A1) slightly from 1/8 to 1/4 turn. A counterclockwise turn will raise the table; a clockwise turn will lower the table. Adjusting the right screw will have greatest adjustment impact to the table's right side; adjusting the left screws will have greatest adjustment impact to the table's left side.
- 3. When adjustment is complete, secure by tightening the hex nut while maintaining the position of the screw with the second wrench. It may be necessary to repeat the exercise in this section more than once to achieve co-planar alignment.

Note: If the tables do not lock properly after the adjustment, see Jointer Table Lock Handle Adjustment on page next.

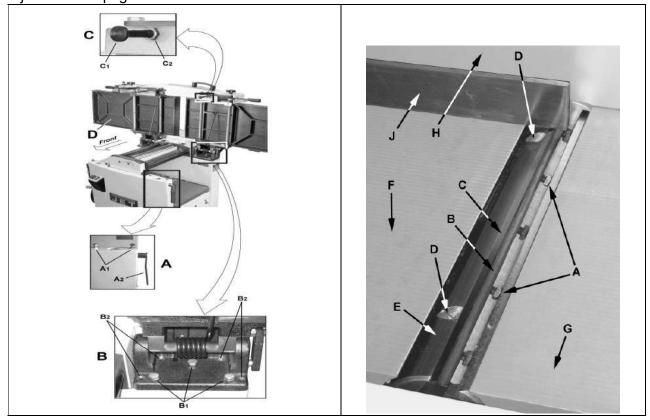


Figure 10	Figure 11
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Setting Cutterhead Knives (straight knives only)

Important: Before performing any adjustments in this section, the infeed and outfeed tables must be coplanar.

AWARNING Cutterhead knives are dangerously sharp! Use extreme caution when inspecting, removing,

sharpening or replacing knives into the cutterhead. Failure to comply may cause serious injury

- 1. Disconnect machine from the power source.
- 2. Remove the cutterhead guard (B, Fig. 8). Referring to Figures 11 and 12:
- 3. Carefully number each knife blade (C) with a magic marker to differentiate each.

Note: To rotate the cutterhead the cutterhead pulley must be turned. This requires removing the panel on the back of the cabinet for access.

- 4. Rotate the cutterhead (E) and determine the 12 o'clock position of knife number one. The 12 o'clock position is the highest point a blade will reach in the cutting arc (C, Fig. 12).
- 5. Set a straightedge (J) on the outfeed table (F) near the fence (H). One end of the straightedge should be positioned over the cutting knife (C) near the end of the blade as shown in Fig. 11.

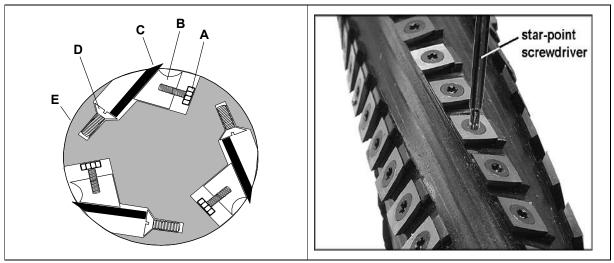


Figure 12 Figure 13

ACAUTION Use care when handling the straightedge near the blades to prevent damage.

- 6. Note the position of the knife blade with respect to the straightedge, then move the straightedge to the other side of the table and again note the position of the knife blade with respect to the straight-edge. Blade number one must be at the same height at each end and must also be at the same height as the outfeed table (bottom of straightedge). If this is not the case, adjustment is required as follows:
- 7. Slightly loosen five gib lock screws (A) by turning into the lock bar (B), clockwise as viewed from the infeed table (G).
- 8. Adjust the blade height by turning jack screws (D) upon which the blades rest. To lower the blade, turn the screw clockwise. To raise, turn the screw counter-clockwise.
- 9. When the blade is at the proper height, alternately tighten the five gib lock screws(A). Repeat steps 4 9 for blades two and three.

Replacing Cutter Knives (straight knives only)

AWARNING Disconnect machine from power source before making any adjustments. Failure to comply may cause serious injury.

- 1. Disconnect machine from the power source.
- 2. Remove the cutterhead guard (B, Fig. 8).

AWARNING Cutterhead knives are dangerously sharp. Use extreme caution when inspecting, removing,

sharpening, or replacing knives into the cutterhead. Failure to comply may cause serious injury.

Refer to Figures 11 and 12:

- 3. Turn all five screws (A) into the lock bar (B) by turning in a clockwise direction as viewed from the infeed table (G).
- 4. Carefully remove the cutter knife (C) and lock bar (B).
- 5. Repeat for remaining two knives.
- 6. Thoroughly clean all surfaces of the cutterhead, knife slots and lock bars of any dust or debris.
- 7. Insert replacement knife (C) into the knife slot, making sure it faces the proper direction.
- 8. Insert lock bar (B) and tighten just enough to hold in place.
- 9. Repeat for other two blades.

Replacing or rotating knife inserts (helical cutterhead only)

The knife inserts on machine are four or five-sided. When dull, simply remove each insert, rotate it 90° for a fresh edge, and re-install it.

Use the provided star point screwdriver to remove the knife insert screw. See Figure 13. It is advisable to rotate all inserts at the same time to maintain consistent cutting. However, if one or more knife inserts develops a nick, rotate only those inserts affected.

Each knife insert has an etched reference mark to keep track of the rotations.

An extra set of 5 knife inserts and knife insert screws are included with your machine.

IMPORTANT: When removing or rotating inserts, clean saw dust from the screw, the insert, and the cutterhead platform. Dust accumulation between these elements can prevent the insert from seating properly, and may affect the quality of the cut.

Before installing each screw, lightly coat the screw threads with machine oil and wipe off any excess.

Securely tighten each screw which holds the knife inserts before operating the planer. Knife inserts should be torqued to approximately 50 to 55 inch.

Jointer Table Lock Handle Adjustment

For best performance, the jointer table lock handles (A2) should be approximately in the fully down position when in the locked position. If adjustment is required:

- 1. Disconnect machine from power source.
- 2. Unlock the lock handle (A2) and raise the table to the upright position.
- 3. Loosen locking nut (C2) with an 18mm wrench.
- 4. Adjust the table locking shaft (C1) in increments of 1/4 turns or less. Turn clockwise to tighten the lock handle performance and counterclockwise to loosen.
- 5. Tighten the locking nut (C2).

6. Test the locking function and repeat if necessary.

Belt Replacement

Refer to Figure 14.



Disconnect machine from power source before making any adjustments.

Failure to comply may cause serious injury.

Preparation

To replace the cutterhead drive belt and/or the planer feed-roller belt, the jointer fence assembly and two back panels must first be removed as described below. A 4mm hex wrench and two 13mm wrenches are required.

- 1. Remove the jointer fence assembly (A Fig.14) by first loosening and removing two lock handle assemblies (B). A 4mm hex wrench is helpful, but not necessary.
- 2. Remove two button head socket screws (C) and upper back panel (D).
- 3. Remove four button head socket screws (O) and lower back panel (P).

Cutterhead Drive Belt Replacement

- 4. Loosen four motor mount screws (L). Lift the motor and rest it in the horizontal slot side of the motor mount opening. This will create a slack in the cutterhead drive belt (F).
- 5. Remove the cutterhead drive belt (F) from around the cutterhead pulley (E) and motor pulley (M).
- 6. If the feed-roller belt (K) is to be replaced, continue. Otherwise proceed to step 10.

AWARNING Make sure all knife insert screws are tightened securely. Loose inserts can be propelled at high speed from a rotating cutterhead, causing injury.

Feed-roller Belt Replacement

Note: If the feed-roller belt is to be replaced, steps 1–5 must be performed to remove the cutterhead drive belt before the feed-roller belt can be replaced.

- 7. Place the power feed handle (J) in the down (off/disengaged) position, which provides belt slack for the next step.
- 8. Remove the feed-roller belt (G) from around the feed-roller pulley (K) and motor pulley (M).
- 9. Loop the new belt around the smaller (inner) motor pulley (M) and feed-roller pulley (K).

Note: The lower stretch of the feed-roller pulley must be positioned between the beltbrake plates (N).

Concluding Steps

- 10. Replace the cutterhead drive belt (F) by looping it around the cutterhead pulley (E), then the larger (outside) motor pulley (M).
- 11. Slide the motor so the mounting screws (L) rest back in the vertical slot openings, then tighten the mounting screws.
- 12. Replace the lower back panel (P) and secure with four button head socket screws (O).
- 13. Replace the upper back panel (D) and secure with two button head socket screws (C).
- 14. Replace the jointer fence assembly (A) and secure with two lock handle assemblies (B).

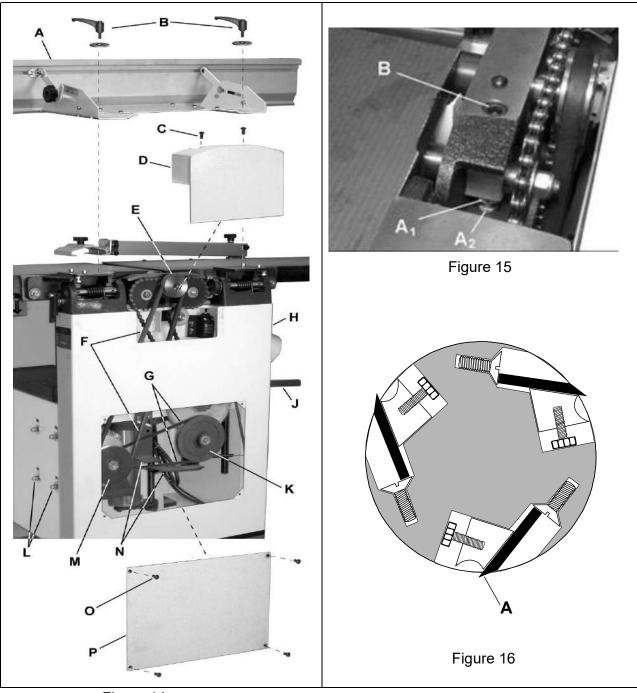


Figure 14

10.8 Feed roller height adjustment

Refer to Figure 15.

The height of the infeed and outfeed rollers has been set by the manufacturer for planing operations. If this setting should ever need adjustment, it is done using the screw and nut (A1, A2, Figure 15) at each end of the rollers.

- 1. Disconnect machine from power source.
- 2. Remove the covers from front and back of the machine.
- 3. At the back, remove the chain and sprockets from their shafts.
- 4. Loosen the hex nut (A1) and rotate the screw (A2) as needed to raise or lower that end of the

roller.

NOTE: Feed rollers must remain parallel to the table, and about 1/32" below the cutting arc of the knives or knife inserts.

- 5. Adjust any of the four screw/nut assemblies as needed.
- 6. Use a gauge on the planer table to verify the height of the rollers in relation to the cutterhead.
- 7. When settings are correct, tighten the hex nuts (A1) up against the casting.
- 8. Make test cuts to verify the setting.

Feed roller pressure adjustment

Refer to Figure 15.

The pressure of the feed rollers against the workpiece during planing operations is maintained by spring tension. To adjust this tension, turn the socket head screw (B, Figure 15), clockwise to increase pressure, counterclockwise to decrease pressure.

Planer table adjustment

MARNING Disconnect machine from power source before making any adjustments. Failure to comply may cause serious injury.

Checking Planer Table Parallel to Cutterhead

The planer table is set parallel to the cutterhead by the manufacturer and no further adjustment should be needed. If your machine is planing a taper, first check to see if the knives are properly adjusted in the cutterhead (see sect. 10.3, Setting cutterhead knives) and make adjustments if necessary.

After the knives are confirmed to be properly set, check to see if the work table is set parallel to the cutterhead as follows.

- 1. Disconnect machine from power source.
- 2. Rotate the cutterhead such that one of the knives (A, Fig. 16) is at the 6 o'clock position.

Refer to Figure 17:

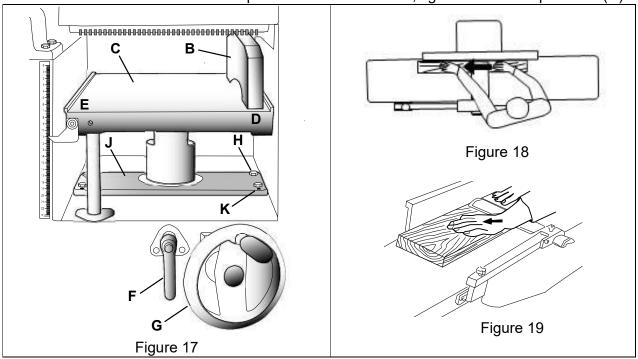
- 3. Place a gauge block (B) or another measuring device on the work table (C) at one edge (D) directly under the cutterhead.
- 4. Unlock the table lock handle (F).
- 5. With the handwheel (G), gently raise the table (C) until the gauge block (B) makes slight contact with the tip of the knife blade, then lock the table.
- 6. Move the gauge block (B) to opposite end of table (E).
 - If the distance from the table to tip of the knife blade is the same at both ends, the table is parallel to the cutterhead.

Adjusting Work Table Parallel to Cutterhead

If the work table is not parallel to the cutterhead, perform the adjustment procedure as follows:

- 7. With a 13mm wrench, loosen four hex cap screws (H) located at each corner of the column support (J).
- 8. Bring the table parallel to the cutterhead by adjusting four setscrews (K) located at each corner of the column support (J) next to the hex cap screws (H).
- 9. Repeat steps 3 6, and if further adjustment is necessary, repeat steps 8, 9.

When the table is determined to be parallel to the cutterhead, tighten the hex cap screws (H).



Basic Operations

Dust Collection

Before initial operation, the machine must be connected to a dust collector.

Initial Startup

After the assembly and adjustments are complete the planer is ready to be tested. Turn on the power supply at the main panel. Press the Start button. Keep your finger on the Stop button in case of a problem. The planer should run smoothly with little or no vibration or rubbing noises. Investigate and correct the source of any problems before further operation.

DO NOT attempt to investigate or adjust the planer while it is running.

Wait until the planer is turned off, unplugged and all working parts have come to a complete standstill.

Changing Mode of Operation

When changing the operating mode (planer to jointer and back) the machine must be turned off and at a complete standstill. To change the mode of operation, see sections Jointer to Planer Setup and Planer to Jointer Setup.

Jointer Operations

Correct operating position

The operator must be positioned offset to the infeed table (Figure 18).

Referring to Figure 18:

At the start of the cut, the left hand holds the workpiece firmly against the infeed table and fence

while the right hand pushes the workpiece in a smooth, even motion toward the cutterhead. After the cut is under way, the new surface rests firmly on the outfeed table. The left hand is transferred to the outfeed side (Figure 18) and presses down on this part of the workpiece, at the same time maintaining flat contact with the fence. The right hand presses the workpiece forward and before the right hand reaches the cutterhead it should be moved to the work on the outfeed table.

The purpose of planing on a jointer is to produce one flat surface (Figure 19). The other side can then be milled to precise, final dimensions on a thickness planer resulting in a board that is smooth and flat on both sides and each side parallel to the other.

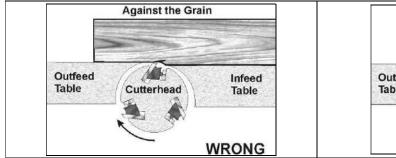
- ☐ If the wood to be jointed is cupped or bowed, place the concave side down, and take light cuts until the surface is flat.
- □ Never surface pieces shorter than 16 inches or thinner than 3/8 inch without the use of a special work holding fixture.
- □ Never surface pieces thinner than 3 inches without the use of a push block.
- □ Cuts of approximately 1/16" at a time are recommended, which provides for better control over the material being surfaced. More passes can then be made to reach the desired depth.

Direction of Grain

Surfacing

Avoid feeding work into the jointer against the grain (Figure 20).

This may result in chipped and splintered edges. Feed with the grain to obtain a smooth surface, as shown in Figure 20.



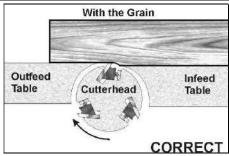


Figure 20 Figure 21

Jointing

Jointing (or edging) is the process of creating a finished, flat edge surface that is suitable for joinery or finishing (Figure 21). It is also a necessary step prior to ripping stock to width on a table saw.

- □ Never edge a board that is less than 3 inches wide, less than 1/4 inch thick, or 12 inches long, without using a push block.
- □ When edging wood wider than 3 inches lap the fingers over the top of the wood, extending them back over the fence such that they will act as a stop for the hands in the event of a kickback.
- □ Position the fence (move forward) to expose only the amount of cutterhead required.

When workpiece is twice the length of the jointer infeed or outfeed table use an infeed or outfeed support.

To edge:

- 1. Make sure the fence is set to 90°. Double check it with a square.
- 2. Inspect stock for soundness and grain direction (refer to Direction of Grain on previous page).
- 3. If the board is bowed (curved), place the concave edge down on the infeed table.
- 4. Set the infeed table for a cut of approximately 1.5mm.
- 5. Hold the stock firmly against the fence and table, feed the stock slowly and evenly over the cutterhead.

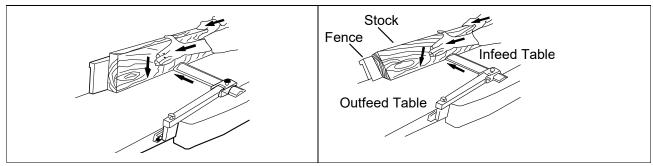


Figure 22 - Surfacing

Figure 23 - Beveling

Beveling

Beveling an edge is the same operation as edge jointing, except that the fence is tilted to a specified angle.

☐ Make certain material being beveled is over 12 inches long, more than 1/4 inch thick and 1 inch wide.

To bevel:

- 1. Use a bevel gauge to determine the desired angle. Then set the fence to the same angle.
- 2. Inspect stock for soundness and grain direction (refer to Direction of Grain on previous page).
- 3. Set the infeed table for a cut of approximately1.5mm.
- 4. If the board is bowed (curved), place the concave edge down on the infeed table.
- 5. Feed the stock through the cutterhead, making sure the face of the stock is completely flat against the fence and the edge is making solid contact on the infeed and outfeed tables (Figure 23).

For wood wider than 3 inches – hold with fingers close together near the top of the stock, lapping over the board and extending over the fence. For wood less than 3 inches wide – use beveled push blocks and apply pressure toward the fence. Keep fingers near top of push block. Several passes may be required to achieve the full bevel will probably take several passes.

Planer Operations

Depth of Cut

Thickness planing refers to the sizing of lumber to a desired thickness while creating a level surface parallel to the opposite side of the board. Board thickness that the planer will produce is indicated by W

the scale and the depthof- cut gauge . Preset the planer to the desired thickness of the finished
workpiece using the gauge. The depth-of-cut is adjusted by raising or lowering the planer table (C,
Fig. 5) using the handwheel (F, Fig. 5).
☐ The quality of thickness planning depends on the operator's judgment about the depth of cut.
☐ The depth of cut depends on the width, hardness, dampness, grain direction and grain structure
of the wood.
$\hfill\Box$ The maximum thickness of wood that can be removed in one pass is 1/8" for planning operations
on workpieces up to 5-1/2" wide.
The workpiece must be positioned away from the center tab on the rollercase to cut 1/8".
☐ The maximum thickness of wood that can be removed in one pass is 1/16" for planning
operations on workpieces from 5-1/2" up to 12" wide.
□ For optimum planning performance, the depth of cut should be less than 1/16"

- For optimum planning performance, the depth of cut should be less than 1/16".
- ☐ The board should be planed with shallow cuts until the work has a level side. Once a level surface

has been created, flip the lumber and create parallel sides.
□ Plane alternate sides until the desired thickness is obtained. When half of the total cut has been
taken from each side, the board will have a uniform, moisture content and additional drying will not
cause it to warp.
☐ The depth of cut should be shallower when the workpiece is wider.
□ When planning hardwood, take light cuts or plane the wood in thin widths.
□ Make a test cut with a test piece and verify the thickness produced.
□ Check the accuracy of the test cut before working on the finished product.
Precautions
☐ A thickness planer is a precision woodworking machine and should be used on quality lumber only.
□ Do not plane dirty boards; dirt and small stones are abrasive and will wear out the
blade.
☐ Remove nails and staples. Use the planer to cut wood only.
□ Avoid knots. Heavily cross-grained wood makes knots hard. Knots can come lose and jam the
blade. Any article that encounters planer blades may be forcibly ejected from the planer creating a
risk of injury.
Preparing the Work
☐ A thickness planer works best when the lumber has at least one flat surface. Use a jointer to
create a flat surface.
☐ Twisted or severely warped boards can jam the planer. Rip the lumber in half to reduce the
magnitude of the warp.
☐ The work should be fed into the planer in the same direction as the grain of the wood. Sometimes
the wood will change directions in the middle of the board. In such cases, if possible, cut the board
in the middle so the grain direction is correct.
Do not plane a board that is less than 6" long. It is recommended that when planning short boards you butt
them end to end to avoid kickback and reduce snipe.
Feeding the Work
The planer is supplied with planer blades mounted in the cutterhead and infeed and
outfeed rollers adjusted to the correct height. The planer feed is automatic; it will vary slightly
depending on the type of wood.
Preparation:
☐ Feed rate refers to the rate at which the lumber travels through the planer.
☐ The operator is responsible for aligning the work so it will feed properly.
□ Raise or lower the rollercase to get the depth of cut desired.
☐ The surface that the planer produces will be smoother if a shallower depth of cut is used.
□ Stand on the side that the handle is attached.
□ Boards longer than 24" should have additional support from free standing material stands.
Planing:
1. Position the workpiece with the face to be planed on top.
O T 11 1

- 2. Turn the planer on.
- 3. Turn the power feed on.
- 4. Rest the board end on the infeed roller plate and direct the board into the planer.
- 5. Slide the workpiece into the infeed side of the planer until the infeed roller begins to advance the workpiece.
- 6. Let go of the workpiece and allow the automatic feed to advance the workpiece.

7. Do not push or pull on the workpiece. Move to the rear and receive the planed lumber by grasping it in the same manner that it was fed.

To avoid the risk of injury due to kickbacks, do not stand directly in line with the front or rear of the planer.

- 8. Do not grasp any portion of the board that has not gone past the outfeed roller.
- 9. Repeat this operation on all of the boards that need to be the same thickness.

Avoiding Snipe

Snipe refers to a depression at either end of the board caused by an uneven force on the cutterhead when the work is entering or leaving the planer.

Snipe will occur when the boards are not supported properly or when only one feed roller is in contact with the work at the beginning or end of the cut.

Precautions for avoiding snipe:

□ Push the board up while feeding the work until the outfeed roller starts advancing it.
☐ Move to the rear and receive the planed board by pushing it up when the infeed roller looses
contact with the board.
\square When planning more than one board of the same thickness, butt the boards together to avoid
snipe.
□ Make shallow cuts. Snipe is more apparent when deeper cuts are taken.
\Box Feed the work in the direction of the grain. Work fed against the grain will have
chipped, splintered edges.

Maintenance

Blade Care

Blades are extremely sharp! Use caution when cleaning or changing. Failure to comply may cause serious injury!

☐ The condition of the blades will affect the precision of the cut. Observe the quality of the cut that the planer produces to check the condition of the blades.

□ Dull blades will tear, rather than cut the wood fibers and produce a fuzzy appearance.

□ Raised grain will occur when dull blades pound on wood that has varying density. A raised edge will also be produced where the blades have been nicked. When gum and pitch collect on the blades, carefully remove with a strong solvent. Failure to remove gum and pitch build up may result in excessive friction, blade wear and overheating. When blades become dull, touch up blades. See Sharpening the Knives.

Sharpening the Knives

Blades are extremely sharp! Use caution when handling. Failure to comply may cause serious injury!

- 1. Disconnect the machine from the power source.
- 2. Remove the blade guard and belt cover.
- 3. To protect the infeed table from scratches, partially cover the sharpening stone with paper (Figure 24).

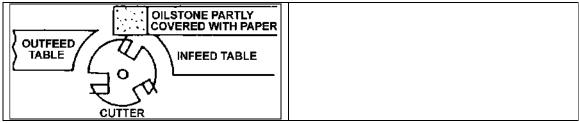


Figure 24

4. Lay the stone on the infeed table.

- 5. Lower the infeed table and turn the cutterhead by turning the cutterhead pulley.
- The infeed table height is set properly when the stone's surface is flush with the knife bevel.
- 6. Keep the cutterhead from rotating by grasping the cutterhead pulley while sliding the stone back and forth across the table.
- 7. Take the same amount of passes for all three blades.

If the blades have been sharpened and still are not cutting efficiently, trying to touch up the blades further will only cause the formation of a second beveled edge. When this starts to happen, it is time to replace blades with another set. It is recommended to keep a second set of blades on hand so that they may be installed while the first set is being professionally sharpened.

Lubrication

☐ Use a good grade of light grease on the steel adjusting screws located in the raising and lowering mechanisms of the work tables.

The cutterhead ball bearings are lifetime lubricated and need no further care.

Troubleshooting

Performance Troubleshooting – Jointer

Trouble	Probable Cause	Remedy
Finished stock is concave on back end.	Knife is higher than outfeed table.	Align cutterhead knives with outfeed table. See sect. 10.3, Setting cutterhead knives.
Finished stock is concave on front end.	Outfeed table is higher than knife.	Align cutterhead knives with outfeed table. See sect. 10.3, Setting cutterhead knives.
Chip out.	Cutting against the grain.	Cut with the grain whenever possible.
	Dull knives.	Sharpen or replace knives/Rotate knife inserts or replace inserts.
	Feeding workpiece too fast.	Use slower rate of feed.
	Cutting too deeply.	Make shallower cuts.
	Knots, imperfections in wood.	Inspect wood closely for imperfections; use different stock if necessary.
Fuzzy grain.	Wood has high moisture content.	Allow wood to dry or use different stock.
	Dull knives.	Sharpen or replace knives/inserts.
Cutterhead slows while operating.	Feeding workpiece too quickly, or applying too much pressure to workpiece.	Feed more slowly, or apply less pressure to workpiece.

"Chatter" marks on workpiece.	Knives incorrectly set.	Set knives properly as described in sect. 10.3, Setting cutterhead knives. Check that knife slots are clean and free of dust or debris.
	Feeding workpiece too fast.	Feed workpiece slowly and consistently.
Uneven knife marks on workpiece.	Knives are nicked, or out of alignment.	Align knives per <i>sect. 10.3, Setting cutterhead knives.</i> Replace nicked knives/Rotate knife inserts.

Performance Troubleshooting – Planer

Trouble	Probable Cause	Remedy
Snipe	Table rollers not set properly.	Adjust rollers to proper height
	Inadequate support of long boards.	Support long boards with extension rollers.
Note: Snipe cannot be eliminated, but can be so minimized as to	Uneven feed roller pressure front to back.	Adjust feed roller tension.
become negligible.	Dull knives.	Sharpen knives/Rotate knife inserts.
	Lumber not butted properly.	Butt end to end each piece of stock as they pass through.
Fuzzy Grain	Planing wood with high moisture content.	Remove high moisture content from wood by drying.
	Dull knives.	Sharpen or replace/Rotate knife inserts.
Torn Grain	Too heavy a cut.	Adjust proper depth of cut.
	Knives cutting against grain.	Cut along the grain.
	Dull knives.	Sharpen knives/Rotate knife inserts.
Rough/Raised Grain	Dull knives.	Sharpen knives/Rotate knife inserts.
	Too heavy a cut.	Adjust proper depth.
	Moisture content too high.	Remove high moisture content from wood by drying.
Rounded, glossy surface	Dull knives.	Sharpen or replace knives/Rotate knife inserts or replace.
	Feed speed too slow.	Increase speed.
	Cutting depth too shallow.	Increase depth.
Poor feeding of lumber.	Inadequate feed roller pressure.	Adjust feed roller tension. If proper tension cannot be achieve, replace feed rollers
	Planer bed rough or dirty.	Clean pitch and residue, and wax planer table.

	Transmission v-belt slipping.	Tighten transmission v-belt.
	Surface of feed rollers clogged.	Clear pitch and residue out of teeth.
Uneven depth of cut side to side.	Knife projection.	Adjust knife projection.
side to side.	Cutterhead not level with bed.	Level bed.
Board thickness does	Depth of cut scale incorrect.	Adjust depth of cut scale.
not match depth of	·	
cut scale.		

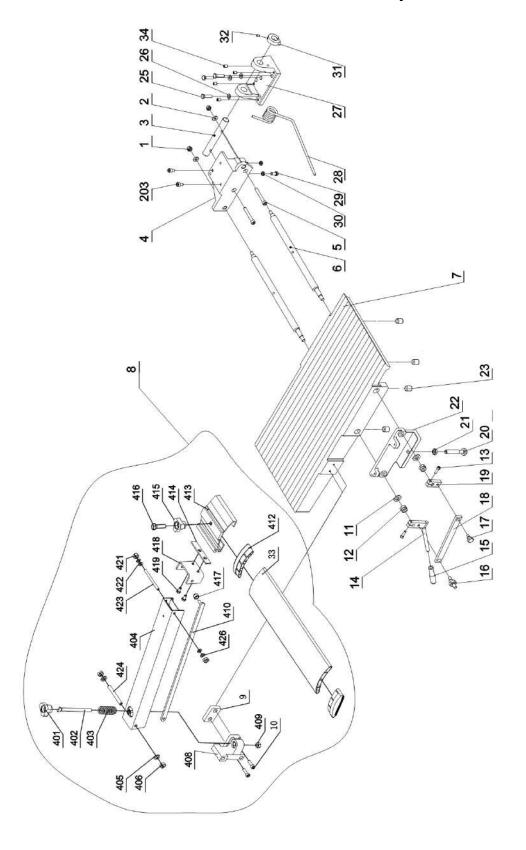
Mechanical Troubleshooting – Planer/Jointer

Trouble	Probable Cause	Remedy
Chain jumping.	Inadequate tension.	Adjust chain tension.
	Sprockets misaligned.	Align sprockets.
2.	Sprockets worn.	Replace sprockets.
Machine will not start/ restart or repeatedly trips circuit breaker or blows fuses.	No incoming power.	Verify unit is connected to power, on-button is pushed in completely, and stop-button is disengaged.
	Overload automatic reset has not reset	When planer overloads on the circuit breaker built into the motor starter, it takes time for the machine to cool down before restart. Allow unit to adequately cool before attempting restart.
	Planer frequently trips.	One cause of overloading trips, which are not electrical in nature, is too heavy a cut. The solution is to take a lighter cut. If too deep a cut is not the problem, then check the amp setting on the overload relay. Match the full load amps on the motor as noted on the motor plate. If the amp setting is correct then there is probably a loose electrical lead. Check amp setting on motor starter.
	Building circuit breaker trips or fuse blows.	Verify that planer is on a circuit of correct size. If circuit size is correct, there is probably a loose electrical lead. Check amp setting on motor starter.
	Loose electrical connections.	Go through all the electrical on the planer including motor connections, verifying the tightness of each. Look for any signs of electrical arcing which is a sure indicator of

	loose connections or circuit overload.
Motor starter fai	Examine motor starter for burned or failed components. If damage is found, replace motor starter. If motor starter looks okay but is still suspect, you have two options: have a qualified electrician test the motor starter for function, or purchase a new starter and establish if that was the problem on changeout
Switch or Motor distinguish.	failure – how to If you have access to a voltmeter, you can separate a starter failure from a motor failure by first, verifying incoming voltage at 220+/-20 and second, checking the voltage between starter and motor at 220+/-20. If incoming voltage is incorrect, you have a power supply problem. If voltage between starter and motor is incorrect, you have a starter problem. If voltage between starter and motor is correct, you have a motor problem.
Motor failure.	If electric motor is suspect, you have two options: Have a qualified electrician test the motor for function or remove the motor and take it to a quality electric motor repair shop and have it tested.
Miswiring of the	unit. Double check to confirm all electrical connections are correct and properly tight. The electrical connections other than the motor are pre-assembled and tested at the factory. Therefore, the motor connections should be double checked as the highest probability for error. If problems persist, double-check the factory wiring.

Parts List for CPT10&CPT12 Jointer / Planer

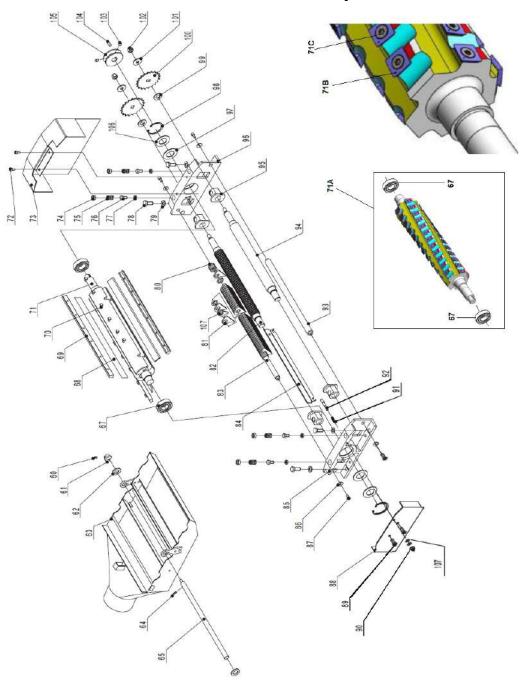
Cutter Block Guard and Outfeed Assembly



Cutter Block Guard and Outfeed Assembly

Index	Part			
No.	No.	Description	Size	Qty
1	. CPT12-001	Lock Nut	M8	4
2	CPT12-002	Washer		4
		Outfeed Table Bracket Shaft		
		Outfeed Table Bracket Right		
		Hex. Socket Cap Screw		
		Eccentric Shaft		
		Outfeed/Infeed Table		
		Outfeed/Infeed Table		
		Cutterblock Guard Assembly (#401~#4		
9	. CPT12-009	Cutterblock Guard Bracket		1
		Hex. Socket Cap Screw		
		Washer		
12	. CPT12-012	Lock Nut	M12	4
13	. CPT12-013	Hex. Socket Cap Screw	M6X20	4
14	. CPT12-014	Adjusting Handle		2
		Knob		
		Special Screw		
		Special Screw		
		Eccentric Shaft Bracket		
		Eccentric Shaft Clamp		
		Table Locking Shaft		
		Hex. Nut		
		Outfeed Table Bracket Left		
		Hex. Socket Set Screw		
25	. CPT12-025	Hex. Bolt	M8X30	6
26	. CPT12-026	Washer	H8	6
27	. CPT12-027	Outfeed Table Support		2
		. Spring		
		Hex. Bolt		
		Hex. Nut		
		Big Cam Wheel for Safty Switch		
		Hex. Socket Set Screw		
		Cutterblock Guard Profile W/Cap		
		Hex. Socket Set Screw		
-		Lock Knob		
		Lead Screw		
		Spring		
404	. CPT12-404	Bracket for Guard		1
405	. CPT12-405	Washer	5	2
406	. CPT12-406	Lock Nut	M5	2
408	. CPT12-408	Locking Support		1
409	CPT12-409	Hex. Nut	M8	1
		Long Shaft		
		Fixed Press Paw		
		Guard Plate Cover		
		Lock Plate		
		Knob		
		Nylon Bolt		
		Lock Nut		
		Bracket		
		Hex. Nut		
421	. CPT12-421	Lock Nut	M6	2
422	. CPT12-422	Nylon Washer	6	2
		Shaft (M6)		
		Shaft (M8)		
		Washer		

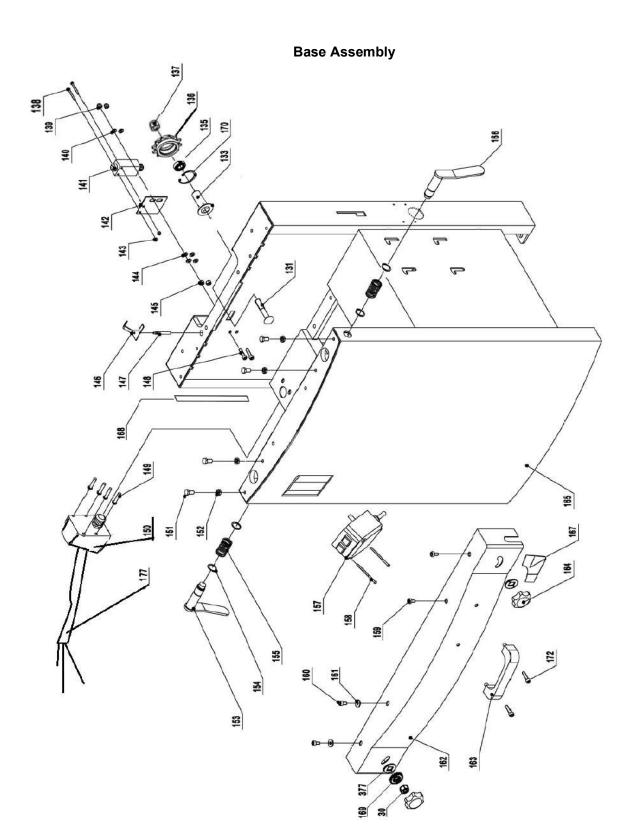
Cutter Block assembly



Cutter Block assembly

maex				
No.	No.	Description	Size	Qty
		Hex.Socket Set Screw		
		Small Cam Wheel for Safty Switch		
		Washer		
		Dust Collector Assembly		
		Pin Roll		
		Shaft		
		Straight Cutterhead Complete Cutt		
65	CP112-065	Shaft		1
		Straight Cutterhead Complete Cu		
		Bearing		
		Knife		
		Knife Locking Bar		
		Special Screw for Locking Bar		
		Cutter Block		1
		Complete Cutterhead Assembly	W= 4 A T1	
71A	CPT10HH-071A	Cutterhead, Helical with Inserts (67#,#	#71AThru #71D)	1
		Knife Insert (set of 5)		
		Knife Insert Screw		
		Start Point Screwdriver (not shown)		
		Pan Head Screw		
		Belt Cover		
		Screw		
75	CPT12-075	Spring		4
76	CPT12-076	Hex. Bolt	M8X16	4
77	CPT12-077	Hex. Nut	M8	4
78	CPT12-078	Hex. Bolt	M10X25	4
79	CPT12-079	Washer	H10	4
80	CPT12-080	Adjusting Washer		27
		Anti-Kickback Finger		
		Infeed Roller		
		Infeed Roller		
		Anti-Kickback Shaft		
		Anti-Kickback Shaft		
		Cutterblock Cover		
		Cutterblock Cover		
		Cutterblock Bracket-Right		
		Washer		
		Hex. Socket Cap Screw		
		Cutterblock Bracket Cover		
		Pan Head Screw		
		Cap Nut		
		Spring		
		Pin Stop for Dust Collector		
		Support Rod		
		Support Rod		
		Outfeed Roller (Rubber)		
		Outfeed Roller (Rubber)		
		Tube (Powder Metal Bushing)		
		Cutterblock Bracket-Left		
		Wave Washer		
		Retaining Ring		
		Washer		
		Drive Chain Sprocket		
		Washer		
		Lock Nut		
103	CPT12-103	Hex. Socket Set Screw	M8X6	2

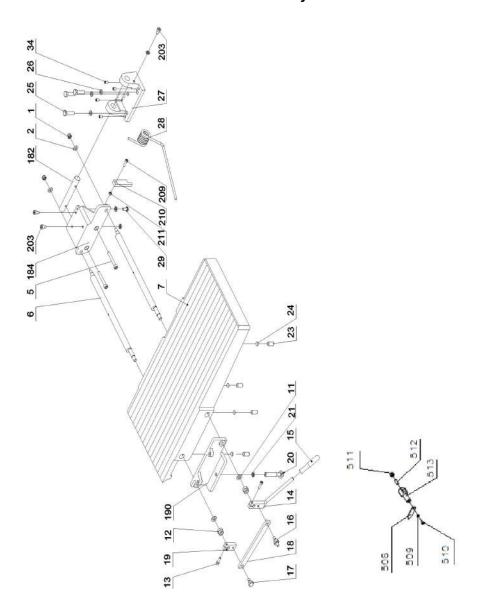
104	CPT12-104	. Key	PLN6X161
		. Spindle Pulley	
		. Washer	
107	CPT12-107	. Hex. Nut	M62



Base Assembly

Index	Part			
No.	No.	Description	Size	Qty
		Carriage Bolt		
		Tube		
135	CPT12-135	Bearing	6001-2Z	1
136	CPT12-136S	Chain Tension Wheel (Sproket)		1
		Chain Tension Wheel Assembly (#13 ⁻		
		Lock Nut		
		Pan Head Screw		
		Lock Nut		
		Washer		
		Safety Switch		
		Safety Switch Bracket		
		Lock Nut		
		Washer		
		Hex. Nut		
		Safety Switch Rocker		
		Safety Switch Rocker Shaft		
		Hex. Socket Cap Screw		
		Pan Head Screw		
		Electrical connection box		
		Special Bolt		
		Hex. Nut		
		Lock Handle For Outfeed Table		
		Retaining Ring		
		Spring		
		Direction Label (Not Shown)		
		Switch 220/1		
		Switch 220//3		
		Self-Tapping Screw		
		Pan Head Screw		
		Pan Head Screw		
		Washer		
		Front Cover		
		Front Cover		
		Handle		
		Lock Knob		
		Cabinet		
		Cabinet Cover (Not Shown)		
		Lock Handle For Infeed Table		
		Infeed Scale		
		Thickness Scale		
		Washer		
170	CPT12-170	Retaining Ring		1
		Hex Socket Head Screw		
177	CPT12-177	Cord		1

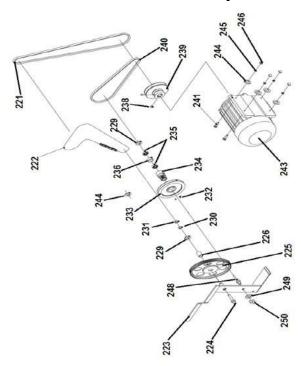
Infeed Table Assembly



Infeed Table Assembly

Index Part			
No. No.	Description	Size	Qty
400 CDT40 400	Outton d Table Branket Chaff		4
	. Outfeed Table Bracket Shaft		
184 CPT12-184	. Infeed Table Bracket Right	M8X60	2
190 CPT12-190	. Infeed Table Bracket Left		1
203 CPT12-203	. Hex. Socket Cap Screw	M8X10	1
209 CPT12-209	. Hex. Socket Cap Screw	M8X35	1
210 CPT12-210	. Table Stopper		1
211 CPT12-211	. Hex. Nut	M8	3
	. Pointer		
509 CPT310-509	. Spring washer	4	1
510 CPT310-510	. Screw	M4X8	1
511 CPT310-511	. Hex. Nut	M6	1
512 CPT310-512	. Set Screw	M6X16	1
513 CPT310-513	. Support pole		1

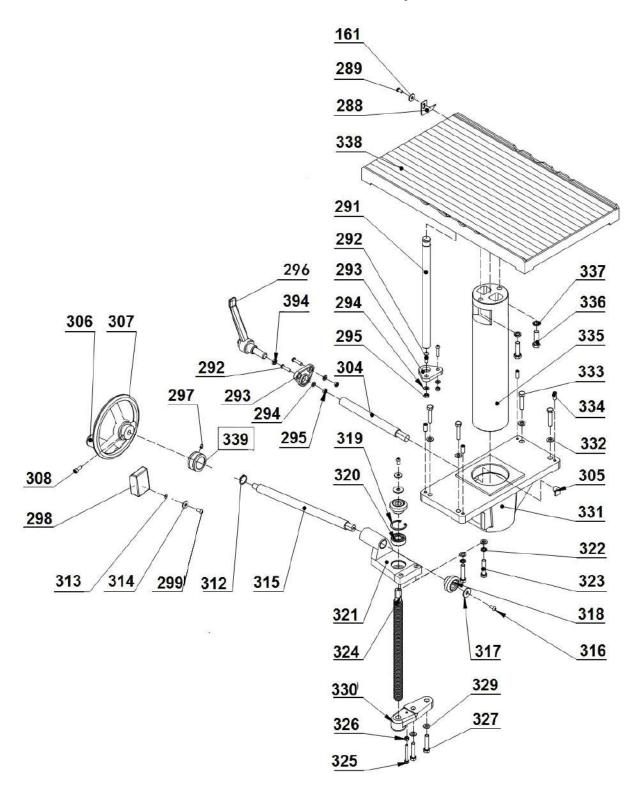
Drive and Motor Assembly



Drive and Motor Assembly

Index Part			
No. No.	Description	Size	Qty
221 CPT12-221	V-Belt for Cutterblock	A1194	1
222 CPT12-222	Drive Chain		1
223 CPT12-223	Cam Wheel Bracket		1
224 CPT12-224	Cam Wheel Shaft		1
	Plastic Gear Wheel Assembly		
226 CPT12-226	Bearing	61902	2
	Washer		
230 CPT12-230	Retaining Ring	CLP15	1
	Retaining Ring		
	Hex. Socket Set Screw		
	V-Belt Pulley for Feed Roller		
	Cam Wheel		
	Bearing		
236 CPT12-236	Spacer Bearing		1
	Hex. Socket Set Screw		
239 CPT12-239	Motor Pulley 220V 1PH		1
	V-Belt for Feed Roller		
_	. Hex. Bolt		
_	. Washer	-	
	. Motor 220/1		
	. Motor 220/3		
	Motor 220/1		
	. Motor 220/3		
	. Washer		
245 CPT12-245	Spring Washer	H8	4
246 CPT12-246	. Cap Hex. Nut	M8	4
	Capacitor (Not Shown)		
	Shaft		
	Spring Washer		
250 CPT12-250	Hex Nut	M10	1

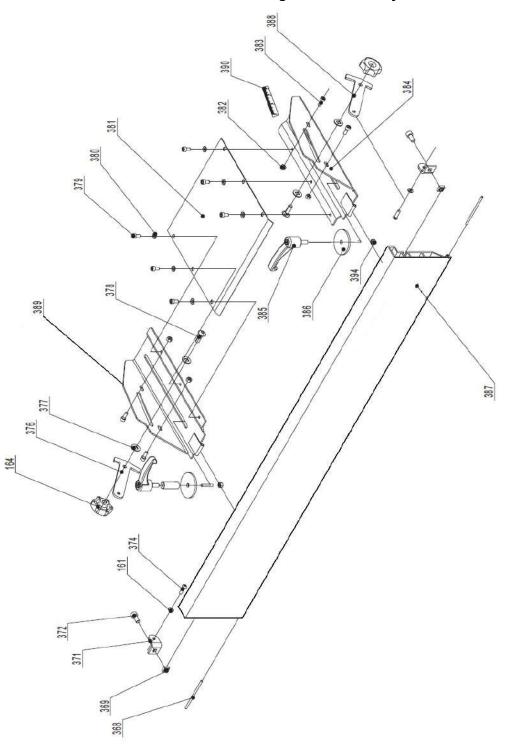
Thickness Table Assembly



Thickness Table Assembly

No. Description Size Qty 288 CPT12-288 Indicator 1 289 CPT12-289 Screw M6x12 1 291 CPT12-291 Thickness Table Guide Bar 1 292 CPT12-293 Guide Bar Bracket 2 294 CPT12-294 Washer H6 2 295 CPT12-295 Hex. Nut M6 2 297 CPT12-297 Set Screw M6x12 1 298 CPT12-299 Indicator Seat 1 1 299 CPT12-299 Screw M6x20 2 304 CPT12-304 Locking Bar 1 305 CPT12-305 Locking Bar 1 306 CPT12-306 Crank Handwheel 1 307 CPT12-308 Hex. Socket Cap Screw M8x16 1 312 CPT12-312 Retaining Ring Clp20 1 313 CPT12-312 Retaining Ring Clp35 1	Index				
289	No.	No.	Description	Size	Qty
289	288	. CPT12-288	Indicator		1
292 CPT12-292 Hex. Socket Cap Screw					
292 CPT12-292 Hex. Socket Cap Screw	291	. CPT12-291	. Thickness Table Guide Bar		1
293 CPT12-293 Guide Bar Bracket 2 294 CPT12-294 Washer H6 2 295 CPT12-295 Hex. Nut M6 2 297 CPT12-297 Set Screw M8x12 1 298 CPT12-298 Indicator Seat 1 299 CPT12-304 Locking Bar 1 304 CPT12-305 Locking Shoe 1 306 CPT12-306 Crank Handle 1 307 CPT12-307 Crank Handwheel 1 307 CPT12-308 Hex. Socket Cap Screw M8x16 1 312 CPT12-312 Retaining Ring Clp20 1 313 CPT12-313 Retaining Ring Clp20 1 314 CPT12-314 Washer 1 315 CPT12-315 Crank Bar 1 316 CPT12-316 Pan Head Screw M6x12 2 317 CPT12-316 Pan Head Screw M6x12 2 <t< td=""><td></td><td></td><td></td><td></td><td></td></t<>					
295 CPT12-295 Hex. Nut. M6 2 297 CPT12-297 Set Screw M8x12 1 298 CPT12-298 Indicator Seat 1 299 CPT12-299 Screw. M6x20 2 304 CPT12-304 Locking Bar. 1 305 CPT12-305 Locking Shoe. 1 306 CPT12-306 Crank Handle 1 307 CPT12-307 Crank Handle 1 308 CPT12-308 Hex. Socket Cap Screw M8x16 1 312 CPT12-312 Retaining Ring Clp20 1 313 CPT12-313 Retaining Ring Clp20 1 314 CPT12-314 Washer 1 1 316 CPT12-315 Crank Bar 1 1 316 CPT12-317 Washer M6 2 317 CPT12-318 Bevel Gear 2 319 CPT12-319 Retaining Ring Clp35					
297 CPT12-297 Set Screw M8x12 1 298 CPT12-298 Indicator Seat 1 299 CPT12-304 Locking Bar. 1 305 CPT12-305 Locking Shoe 1 306 CPT12-306 Crank Handle 1 307 CPT12-307 Crank Handwheel 1 308 CPT12-308 Hex. Socket Cap Screw M8x16 1 312 CPT12-312 Retaining Ring Clp20 1 313 CPT12-313 Retaining Ring Clp20 1 314 CPT12-314 Washer 1 1 315 CPT12-315 Crank Bar 1 1 316 CPT12-316 Pan Head Screw M6x12 2 317 CPT12-317 Washer M6 2 318 CPT12-318 Bevel Gear 2 319 CPT12-319 Retaining Ring Clp35 1 320 CPT12-320 Bearing 6202-2Z					
297 CPT12-297 Set Screw M8x12 1 298 CPT12-298 Indicator Seat 1 299 CPT12-304 Locking Bar. 1 305 CPT12-305 Locking Shoe 1 306 CPT12-306 Crank Handle 1 307 CPT12-307 Crank Handwheel 1 308 CPT12-308 Hex. Socket Cap Screw M8x16 1 312 CPT12-312 Retaining Ring Clp20 1 313 CPT12-313 Retaining Ring Clp20 1 314 CPT12-314 Washer 1 1 315 CPT12-315 Crank Bar 1 1 316 CPT12-316 Pan Head Screw M6x12 2 317 CPT12-317 Washer M6 2 318 CPT12-318 Bevel Gear 2 319 CPT12-319 Retaining Ring Clp35 1 320 CPT12-320 Bearing 6202-2Z	295	. CPT12-295	. Hex. Nut	M6	2
299 CPT12-299 Screw	297	. CPT12-297	. Set Screw	M8x12	1
304 CPT12-304 Locking Bar. 1 305 CPT12-305 Locking Shoe 1 306 CPT12-306 Crank Handle 1 307 CPT12-307 Crank Handwheel 1 308 CPT12-308 Hex. Socket Cap Screw M8x16 1 312 CPT12-312 Retaining Ring Clp20 1 313 CPT12-313 Retaining Ring Clp35 1 314 CPT12-314 Washer 1 1 315 CPT12-314 Washer 1 1 316 CPT12-316 Pan Head Screw M6x12 2 317 CPT12-316 Pan Head Screw M6x12 2 317 CPT12-318 Bevel Gear 2 318 CPT12-318 Bevel Gear 2 320 CPT12-319 Retaining Ring Clp35 1 320 CPT12-320 Bearing 6202-2Z 1 321 CPT12-331 Hex. Bolt M8x35<	298	. CPT12-298	. Indicator Seat		1
304 CPT12-304 Locking Bar. 1 305 CPT12-305 Locking Shoe 1 306 CPT12-306 Crank Handle 1 307 CPT12-307 Crank Handwheel 1 308 CPT12-308 Hex. Socket Cap Screw M8x16 1 312 CPT12-312 Retaining Ring Clp20 1 313 CPT12-313 Retaining Ring Clp35 1 314 CPT12-314 Washer 1 1 315 CPT12-314 Washer 1 1 316 CPT12-316 Pan Head Screw M6x12 2 317 CPT12-316 Pan Head Screw M6x12 2 317 CPT12-318 Bevel Gear 2 318 CPT12-318 Bevel Gear 2 320 CPT12-319 Retaining Ring Clp35 1 320 CPT12-320 Bearing 6202-2Z 1 321 CPT12-331 Hex. Bolt M8x35<	299	. CPT12-299	. Screw	M6x20	2
306 CPT12-306 Crank Handle 1 307 CPT12-307 Crank Handwheel 1 308 CPT12-308 Hex. Socket Cap Screw M8x16 1 312 CPT12-312 Retaining Ring Clp20 1 313 CPT12-313 Retaining Ring Clp35 1 314 CPT12-314 Washer 1 1 315 CPT12-315 Crank Bar 1 1 316 CPT12-316 Pan Head Screw M6x12 2 317 CPT12-317 Washer M6 2 318 CPT12-318 Bevel Gear 2 319 CPT12-319 Retaining Ring Clp35 1 320 CPT12-321 Bevel Gear 2 321 CPT12-320 Bearing 6202-2Z 1 321 CPT12-321 Bevel Gear Bracket 1 322 CPT12-322 Washer H8 8 323 CPT12-323 Hex. Bolt					
306 CPT12-306 Crank Handle 1 307 CPT12-307 Crank Handwheel 1 308 CPT12-308 Hex. Socket Cap Screw M8x16 1 312 CPT12-312 Retaining Ring Clp20 1 313 CPT12-313 Retaining Ring Clp35 1 314 CPT12-314 Washer 1 1 315 CPT12-315 Crank Bar 1 1 316 CPT12-316 Pan Head Screw M6x12 2 317 CPT12-317 Washer M6 2 318 CPT12-318 Bevel Gear 2 319 CPT12-319 Retaining Ring Clp35 1 320 CPT12-321 Bevel Gear 2 321 CPT12-320 Bearing 6202-2Z 1 321 CPT12-321 Bevel Gear Bracket 1 322 CPT12-322 Washer H8 8 323 CPT12-323 Hex. Bolt	305	. CPT12-305	. Locking Shoe		1
307 CPT12-307 Crank Handwheel 1 308 CPT12-308 Hex. Socket Cap Screw M8x16 1 312 CPT12-312 Retaining Ring Clp20 1 313 CPT12-313 Retaining Ring Clp35 1 314 CPT12-314 Washer 1 1 315 CPT12-315 Crank Bar 1 1 316 CPT12-316 Pan Head Screw M6x12 2 317 CPT12-317 Washer M6 2 318 CPT12-317 Washer M6 2 318 CPT12-318 Bevel Gear 2 319 CPT12-319 Retaining Ring Clp35 1 320 CPT12-320 Bearing 6202-2Z 1 321 CPT12-320 Bearing 6202-2Z 1 322 CPT12-322 Washer H8 8 323 CPT12-322 Washer H8 8 324 CPT1					
308 CPT12-308 Hex. Socket Cap Screw M8x16 1 312 CPT12-312 Retaining Ring Clp20 1 313 CPT12-313 Retaining Ring Clp35 1 314 CPT12-314 Washer 1 315 CPT12-315 Crank Bar 1 316 CPT12-316 Pan Head Screw M6x12 2 317 CPT12-317 Washer M6 2 318 CPT12-318 Bevel Gear 2 319 CPT12-319 Retaining Ring Clp35 1 320 CPT12-319 Retaining Ring Clp35 1 321 CPT12-321 Bevel Gear Bracket 1 321 CPT12-321 Bevel Gear Bracket 1 322 CPT12-322 Washer H8 8 323 CPT12-322 Washer H8 8 324 CPT12-324 Thread Rod 1 1 325 CPT12-325 Hex. Bolt					
312 CPT12-312 Retaining Ring Clp20 1 313 CPT12-313 Retaining Ring Clp35 1 314 CPT12-314 Washer 1 315 CPT12-315 Crank Bar 1 316 CPT12-316 Pan Head Screw M6x12 2 317 CPT12-317 Washer M6 2 318 CPT12-318 Bevel Gear 2 319 CPT12-318 Bevel Gear 2 319 CPT12-319 Retaining Ring Clp35 1 320 CPT12-319 Retaining Ring Clp35 1 320 CPT12-320 Bearing 6202-2Z 1 321 CPT12-320 Bearing 6202-2Z 1 322 CPT12-321 Bevel Gear Bracket 1 322 CPT12-322 Washer H8 8 323 CPT12-323 Hex. Bolt M8x35 8 324 CPT12-325 Hex. Bolt M6x45 1 326 CPT12-326 Hex. Nut M6 <					
313 CPT12-313 Retaining Ring Clp35 1 314 CPT12-314 Washer 1 315 CPT12-315 Crank Bar 1 316 CPT12-316 Pan Head Screw M6x12 2 317 CPT12-317 Washer M6 2 318 CPT12-318 Bevel Gear 2 319 CPT12-319 Retaining Ring Clp35 1 320 CPT12-319 Retaining Ring Clp35 1 320 CPT12-320 Bearing 6202-2Z 1 321 CPT12-320 Bearing 6202-2Z 1 321 CPT12-321 Bevel Gear Bracket 1 322 CPT12-322 Washer H8 8 323 CPT12-323 Hex. Bolt M8x35 8 324 CPT12-324 Thread Rod 1 1 325 CPT12-325 Hex. Bolt M6x45 1 326 CPT12-326 Hex. Bolt					
314 CPT12-314 Washer 1 315 CPT12-315 Crank Bar 1 316 CPT12-316 Pan Head Screw M6x12 2 317 CPT12-317 Washer M6 2 318 CPT12-318 Bevel Gear 2 319 CPT12-319 Retaining Ring Clp35 1 320 CPT12-320 Bearing 6202-2Z 1 321 CPT12-321 Bevel Gear Bracket 1 322 CPT12-321 Bevel Gear Bracket 1 322 CPT12-322 Washer H8 8 323 CPT12-322 Washer H8 8 323 CPT12-323 Hex. Bolt M8x35 8 324 CPT12-324 Thread Rod 1 325 CPT12-325 Hex. Bolt M6x45 1 326 CPT12-326 Hex. Nut M6 1 327 CPT12-330 Thread Rob Bracket 1 331 CPT12-331 Column Support 1 333 CPT					
316 CPT12-316 Pan Head Screw M6x12 2 317 CPT12-317 Washer M6 2 318 CPT12-318 Bevel Gear 2 319 CPT12-319 Retaining Ring Clp35 1 320 CPT12-320 Bearing 6202-2Z 1 321 CPT12-321 Bevel Gear Bracket 1 322 CPT12-322 Washer H8 8 323 CPT12-323 Hex. Bolt M8x35 8 324 CPT12-324 Thread Rod 1 1 325 CPT12-325 Hex. Bolt M6x45 1 326 CPT12-326 Hex. Nut M6 1 327 CPT12-327 Hex. Bolt M8x35 2 329 CPT12-339 Washer H8 2 330 CPT12-330 Thread Rob Bracket 1 331 CPT12-331 Column Support 1 333 CPT12-333 Hex. Socket Set Screw M8x20 5 335 CPT12-336 Hex. Bolt M10x35 2 337 CPT12-337 Spring Washer H10 2 338 CPT10-338					
317	315	. CPT12-315	. Crank Bar		1
318 CPT12-318 Bevel Gear. 2 319 CPT12-319 Retaining Ring Clp35 1 320 CPT12-320 Bearing 6202-2Z 1 321 CPT12-321 Bevel Gear Bracket 1 322 CPT12-322 Washer H8 8 323 CPT12-323 Hex Bolt M8x35 8 324 CPT12-324 Thread Rod 1 325 CPT12-325 Hex Bolt M6x45 1 326 CPT12-326 Hex Nut M6 1 327 CPT12-327 Hex Bolt M8x35 2 329 CPT12-329 Washer H8 2 330 CPT12-330 Thread Rob Bracket 1 331 CPT12-331 Column Support 1 333 CPT12-333 Hex Socket Set Screw M8x20 5 335 CPT12-336 Hex Bolt M10x35 2 337 CPT12-337 Spring Washer H10 2 338 CPT10-338 Thickness Table 1 <td>316</td> <td>. CPT12-316</td> <td>. Pan Head Screw</td> <td>M6x12</td> <td>2</td>	316	. CPT12-316	. Pan Head Screw	M6x12	2
319 CPT12-319 Retaining Ring Clp35 1 320 CPT12-320 Bearing 6202-2Z 1 321 CPT12-321 Bevel Gear Bracket 1 322 CPT12-322 Washer H8 8 323 CPT12-323 Hex. Bolt M8x35 8 324 CPT12-324 Thread Rod 1 325 CPT12-325 Hex. Bolt M6x45 1 326 CPT12-326 Hex. Nut. M6 1 327 CPT12-327 Hex. Bolt M8x35 2 329 CPT12-329 Washer H8 2 330 CPT12-330 Thread Rob Bracket 1 331 CPT12-331 Column Support 1 333 CPT12-333 Hex. Socket Set Screw M8x20 5 335 CPT12-335 Column 1 336 CPT12-336 Hex. Bolt M10x35 2 337 CPT12-337 Spring Washer H10 2 338 CPT10-338 Thickness Table 1 </td <td></td> <td></td> <td></td> <td></td> <td></td>					
320 CPT12-320 Bearing 6202-2Z 1 321 CPT12-321 Bevel Gear Bracket 1 322 CPT12-322 Washer H8 8 323 CPT12-323 Hex. Bolt M8x35 8 324 CPT12-324 Thread Rod 1 325 CPT12-325 Hex. Bolt M6x45 1 326 CPT12-326 Hex. Nut M6 1 327 CPT12-327 Hex. Bolt M8x35 2 329 CPT12-329 Washer H8 2 330 CPT12-330 Thread Rob Bracket 1 331 CPT12-331 Column Support 1 333 CPT12-333 Hex. Socket Set Screw M8x20 5 335 CPT12-335 Column 1 336 CPT12-336 Hex. Bolt M10x35 2 337 CPT12-337 Spring Washer H10 2 338 CPT10-338 Thickness Table 1	318	. CPT12-318	. Bevel Gear		2
320 CPT12-320 Bearing 6202-2Z 1 321 CPT12-321 Bevel Gear Bracket 1 322 CPT12-322 Washer H8 8 323 CPT12-323 Hex. Bolt M8x35 8 324 CPT12-324 Thread Rod 1 325 CPT12-325 Hex. Bolt M6x45 1 326 CPT12-326 Hex. Nut M6 1 327 CPT12-327 Hex. Bolt M8x35 2 329 CPT12-329 Washer H8 2 330 CPT12-330 Thread Rob Bracket 1 331 CPT12-331 Column Support 1 333 CPT12-333 Hex. Socket Set Screw M8x20 5 335 CPT12-335 Column 1 336 CPT12-336 Hex. Bolt M10x35 2 337 CPT12-337 Spring Washer H10 2 338 CPT10-338 Thickness Table 1	319	. CPT12-319	. Retaining Ring	Clp35	1
322 CPT12-322 Washer H8 8 323 CPT12-323 Hex. Bolt M8x35 8 324 CPT12-324 Thread Rod 1 325 CPT12-325 Hex. Bolt M6x45 1 326 CPT12-326 Hex. Nut M6 1 327 CPT12-327 Hex. Bolt M8x35 2 329 CPT12-329 Washer H8 2 330 CPT12-330 Thread Rob Bracket 1 331 CPT12-331 Column Support 1 333 CPT12-333 Hex. Socket Set Screw M8x20 5 335 CPT12-335 Column 1 336 CPT12-336 Hex. Bolt M10x35 2 337 CPT12-337 Spring Washer H10 2 338 CPT10-338 Thickness Table 1					
322 CPT12-322 Washer H8 8 323 CPT12-323 Hex. Bolt M8x35 8 324 CPT12-324 Thread Rod 1 325 CPT12-325 Hex. Bolt M6x45 1 326 CPT12-326 Hex. Nut M6 1 327 CPT12-327 Hex. Bolt M8x35 2 329 CPT12-329 Washer H8 2 330 CPT12-330 Thread Rob Bracket 1 331 CPT12-331 Column Support 1 333 CPT12-333 Hex. Socket Set Screw M8x20 5 335 CPT12-335 Column 1 336 CPT12-336 Hex. Bolt M10x35 2 337 CPT12-337 Spring Washer H10 2 338 CPT10-338 Thickness Table 1					
324 CPT12-324 Thread Rod. 1 325 CPT12-325 Hex. Bolt. M6x45 1 326 CPT12-326 Hex. Nut. M6 1 327 CPT12-327 Hex. Bolt. M8x35 2 329 CPT12-329 Washer H8 2 330 CPT12-330 Thread Rob Bracket 1 331 CPT12-331 Column Support 1 333 CPT12-333 Hex. Socket Set Screw. M8x20 5 335 CPT12-335 Column 1 336 CPT12-336 Hex. Bolt. M10x35 2 337 CPT12-337 Spring Washer. H10 2 338 CPT10-338 Thickness Table 1					
324 CPT12-324 Thread Rod. 1 325 CPT12-325 Hex. Bolt. M6x45 1 326 CPT12-326 Hex. Nut. M6 1 327 CPT12-327 Hex. Bolt. M8x35 2 329 CPT12-329 Washer H8 2 330 CPT12-330 Thread Rob Bracket 1 331 CPT12-331 Column Support 1 333 CPT12-333 Hex. Socket Set Screw. M8x20 5 335 CPT12-335 Column 1 336 CPT12-336 Hex. Bolt. M10x35 2 337 CPT12-337 Spring Washer. H10 2 338 CPT10-338 Thickness Table 1	323	. CPT12-323	. Hex. Bolt	M8x35	8
325 CPT12-325 Hex. Bolt M6x45 1 326 CPT12-326 Hex. Nut M6 1 327 CPT12-327 Hex. Bolt M8x35 2 329 CPT12-329 Washer H8 2 330 CPT12-330 Thread Rob Bracket 1 331 CPT12-331 Column Support 1 333 CPT12-333 Hex. Socket Set Screw M8x20 5 335 CPT12-335 Column 1 336 CPT12-336 Hex. Bolt M10x35 2 337 CPT12-337 Spring Washer H10 2 338 CPT10-338 Thickness Table 1					
326 CPT12-326 Hex. Nut M6 1 327 CPT12-327 Hex. Bolt M8x35 2 329 CPT12-329 Washer H8 2 330 CPT12-330 Thread Rob Bracket 1 331 CPT12-331 Column Support 1 333 CPT12-333 Hex. Socket Set Screw M8x20 5 335 CPT12-335 Column 1 336 CPT12-336 Hex. Bolt M10x35 2 337 CPT12-337 Spring Washer H10 2 338 CPT10-338 Thickness Table 1					
329 CPT12-329 Washer H8 2 330 CPT12-330 Thread Rob Bracket 1 331 CPT12-331 Column Support 1 333 CPT12-333 Hex. Socket Set Screw M8x20 5 335 CPT12-335 Column 1 336 CPT12-336 Hex. Bolt M10x35 2 337 CPT12-337 Spring Washer H10 2 338 CPT10-338 Thickness Table 1	326	. CPT12-326	. Hex. Nut	M6	1
330 CPT12-330 Thread Rob Bracket 1 331 CPT12-331 Column Support 1 333 CPT12-333 Hex. Socket Set Screw M8x20 5 335 CPT12-335 Column 1 336 CPT12-336 Hex. Bolt M10x35 2 337 CPT12-337 Spring Washer H10 2 338 CPT10-338 Thickness Table 1	327	. CPT12-327	. Hex. Bolt	M8x35	2
331 CPT12-331 Column Support 1 333 CPT12-333 Hex. Socket Set Screw M8x20 5 335 CPT12-335 Column 1 336 CPT12-336 Hex. Bolt M10x35 2 337 CPT12-337 Spring Washer H10 2 338 CPT10-338 Thickness Table 1	329	. CPT12-329	. Washer	H8	2
331 CPT12-331 Column Support 1 333 CPT12-333 Hex. Socket Set Screw M8x20 5 335 CPT12-335 Column 1 336 CPT12-336 Hex. Bolt M10x35 2 337 CPT12-337 Spring Washer H10 2 338 CPT10-338 Thickness Table 1	330	. CPT12-330	. Thread Rob Bracket		1
333 CPT12-333 Hex. Socket Set Screw M8x20 5 335 CPT12-335 Column 1 336 CPT12-336 Hex. Bolt M10x35 2 337 CPT12-337 Spring Washer H10 2 338 CPT10-338 Thickness Table 1					
335 CPT12-335	333	. CPT12-333	. Hex. Socket Set Screw	M8x20	5
336 CPT12-336					
337 CPT12-337					
338 CPT10-338 Thickness Table					
339 CPT12-339 Loop Counter					

Working Fence Assembly

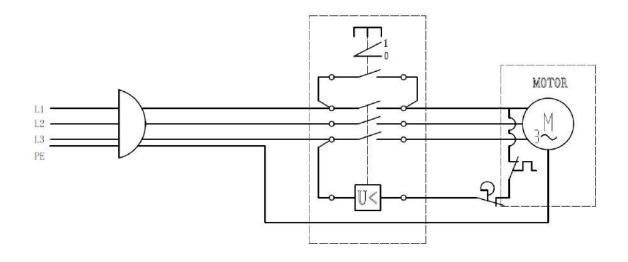


Working Fence Assembly

Index	Part			
No.	No.	Description	Size	Qty
368	CDT12_368	Pin for Hinge		1
360	CPT12-360	Square Nut	MR	ı
		Lock Nut		
		Fence Mounting Bracket		
372	CPT12-371	Hex. Bolt	M8X16	2
		Hex. Socket Cap Screw		
		Fence Support-Right		
		Nylon Washer		
378	CPT12-378	Carriage Bolt	M8X25	10
		Pan Head Sscrew		
		Washer		
		Cutterblock Cover		
		Cutterblock Cover		
		Lock Nut		
		Hex. Socket Cap Screw		
384	CPT10-384	Fence Bracket-Left		1
384	CPT12-384	Fence Bracket-Left		1
385	CPT12-385	Lock Handle		3
		Special Washer		
		Fence		
388	CPT12-388	Fence Support-Left		1
		Fence Bracket-Right		
389	CPT12-389	Fence Bracket-Right		1
		Fence Scale		
		Complete Fence Assembly (#368 Thru #		
		Fence Scale		
	CPT12-395	Complete Fence Assembly (#368 Thru #	394)	1

Electrical Diagram for CPT10&CPT12 Jointer / Planer

1. 220v 50hz 3ph



2. 220v 50hz 1ph

