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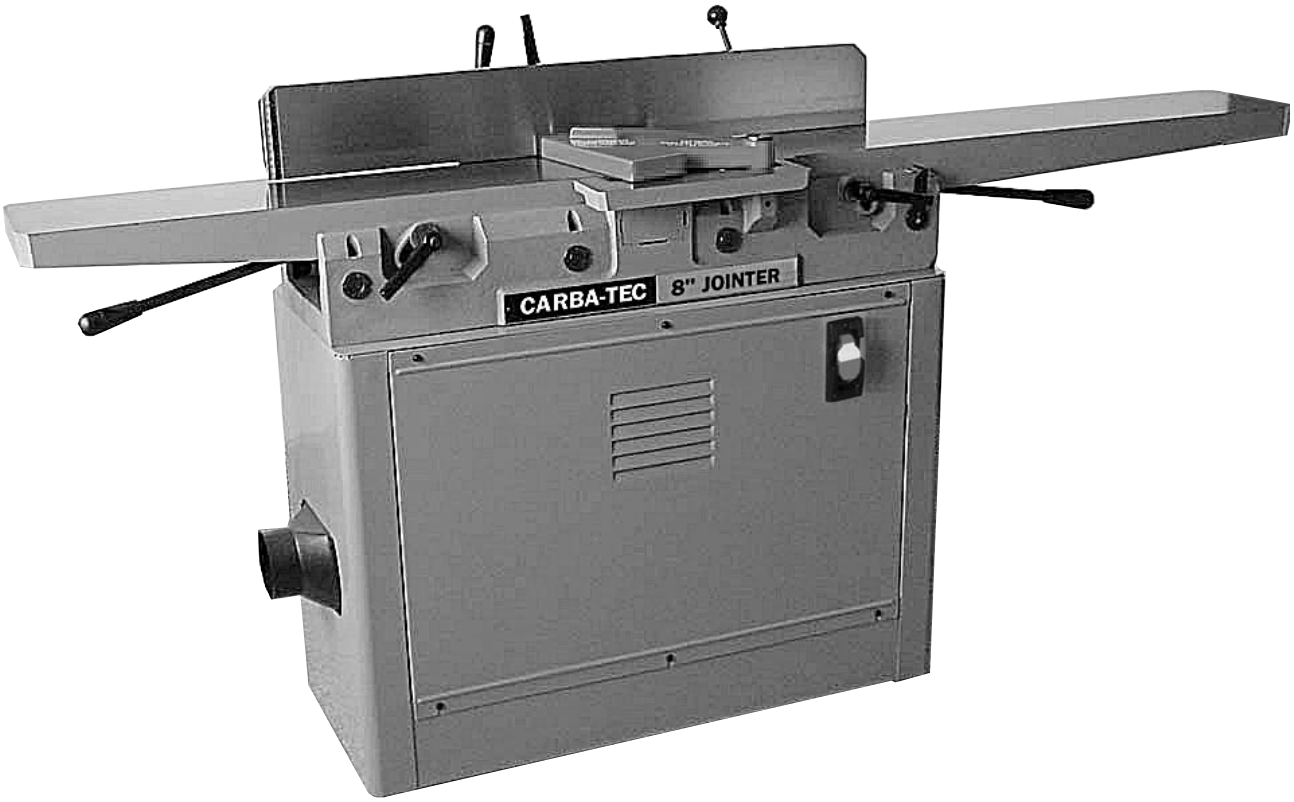
8” JOINTER

MODEL CTJ-350



INSTRUCTION MANUAL

CARBA-TEC®

TOOLS FOR WOOD

SAFETY WARNING:

This list of do's and do nots is not exhaustive and is not a substitute for common sense and best practices.

Woodworking machines are potentially dangerous, it is important to observe all safety instructions while operating this machine.

- Always wear eye and ear protection.
- Always unplug the machine from the power source before making any adjustments.
- Always use a licensed electrician for any installation or electrical repair work.
- Do not wear loose clothing, jewellery or other loose ornamentation.
- Long hair should be protected by netting or other means to prevent ingress into the machines working parts.
- Keep all safety guards in place and well maintained.
- Ensure all adjusting keys, spanners and tools are removed before machine is switched on.
- Keep children and unauthorised persons away from machine even when not in use.
- Do not use machine for any other purpose than that for which it was designed.
- Do not use excessive force, or exceed capacity of machine by attempting to take too large a cut.
- At no time should machine be unattended whilst in operation.
- When machining small sizes of timber, use a push block to avoid placing hands too close to turning cutterhead.
- Do not put hands inside machine whilst it is running.
- Wood dust is a health hazard, ensure correct dust extraction is fitted.
- Cutter blades should be kept sharp at all times. Blunt blades are a major cause of accidents and machine failure. Damage to the machine caused by blunt blades is not covered by warranty.
- This machine should be used in an area with good lighting and ventilation.
- Keep the floor and adjacent areas around the machine dry and clean.
- Do not lean or climb on the machine as it may tip.
- Always maintain a balanced stance when operating this machine.
- Do not operate this machine whilst on medication or under the influence of alcohol or drugs.

SAFETY RULES FOR JOINTERS

1. Keep cutterhead blades sharp and clean of resin buildup.
2. Check that guard swings free of cutterhead and is always in place when jointer is in use.
3. Check infeed and outfeed table are locked in place before using machine.
4. Always use the fence when planing, do not attempt to freehand workpiece without supporting it against the fence.
5. Use a push block to protect hands, especially when machining. Very thin boards where your hands are close to the cutterhead.
6. If your material is wider than 38mm Do not take a cut larger than 3mm. Maximum cut for wide material should be 1.5mm.
7. Make sure jointer is turned off and unplugged before performing any maintenance work, such as blade changing.

ASSEMBLY

Your jointer comes in two separate packing boxes, the assembled jointer in one, and the base in the other and accessories in the other. The motor will need to be mounted to the motor mounting bracket using the 4 nuts and bolts supplied.

ASSEMBLING JOINTER TO STAND

Take off side panel by removing the three screws at the top, and loosening the three screws at the bottom, the panel will lift off. Line up the outfeed end of the jointer with the chip chute. There are 8 threaded holes on the bottom of the jointer, line these up with the 8 holes in the base and fasten through using the 1" long socket head screws and lock washers supplied.

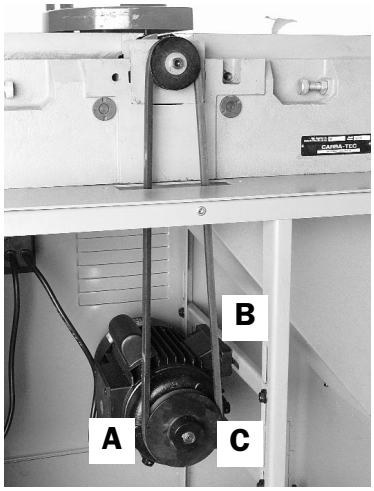


Fig. 1

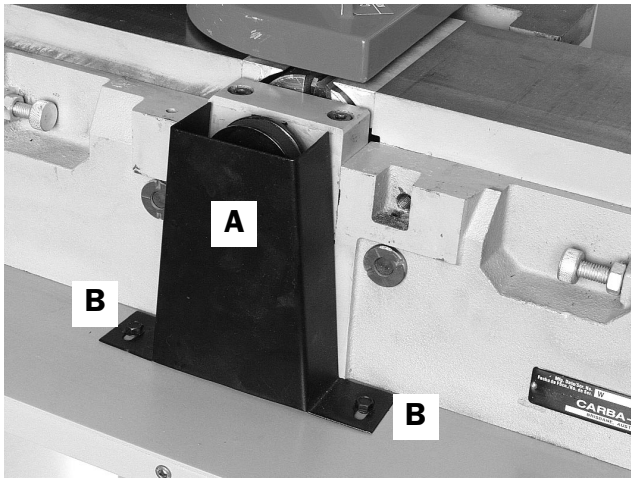


Fig. 2

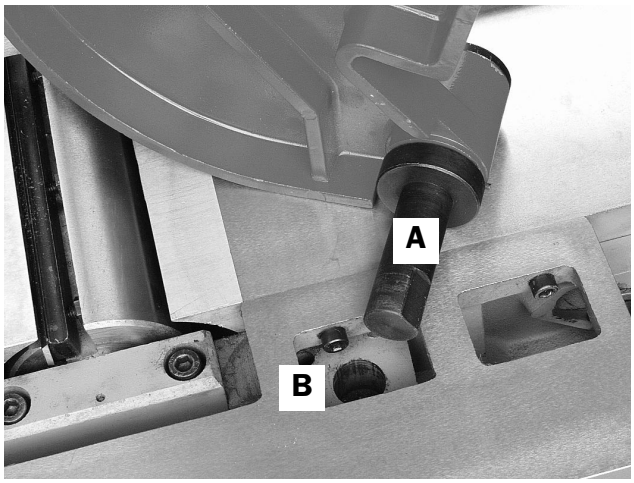


Fig. 3

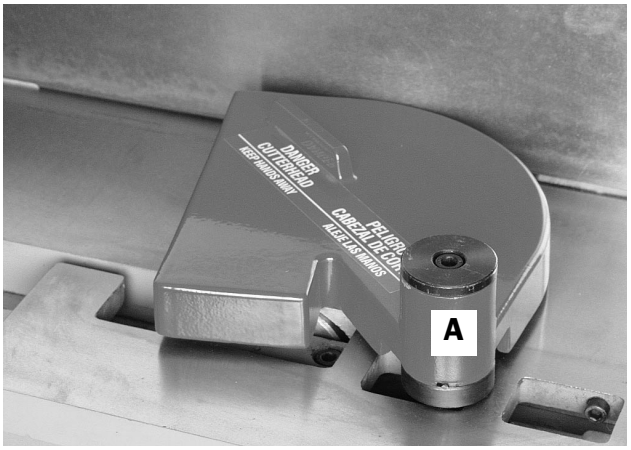


Fig. 4

MOTOR PULLEY ASSEMBLY

Fix the motor pulley Fig. 1 (A) onto the motor shaft making sure the hub of the pulley is facing out. Insert key into the keyway of the pulley and motor shaft. Make sure you tighten the set screw Fig. 1 (C) with the allen wrench supplied.

ALIGNING BELT PULLEYS

Place the belt around the pulleys on the motor and the cutterhead. Using a straight edge on the face of both pulleys make sure they are in line. If adjustment is needed, the motor pulley can be moved foreward or back on the motor shaft. An altenative is to loosen the screws on the motor mounting plate Fig. 1 (B) and shift the motor forward or back, be sure to tighten them again afterwards.

CHECKING BELT TENSION

If the belt tension is correct, there should be 1" deflection at the centre span of the belt. If adjustment is needed,the motor may be raised or lowered by loosening the motor mounting screws and pushing the motor up or down to adjust tension. Don't forget to retighten the screws after positioning is complete. Recheck pulley alignment to ensure it has not been disturbed. Once you are satisfied with the belt pulley arrangement, replace the side panel.

Replace pulley guard Fig. 2 (A) with two screws Fig. 2 (B) into jointer base.

CUTTERHEAD GUARD

The cutterhead guard is fitted by inserting the post Fig. 3 (A) into the hole Fig. 3 (B) and tightening the set screw.

There is a tension spring in the cutterhead guard assembly Fig. 4 (A) which allows the guard to return after a cut has been made.

Fig. 5

Fig. 6

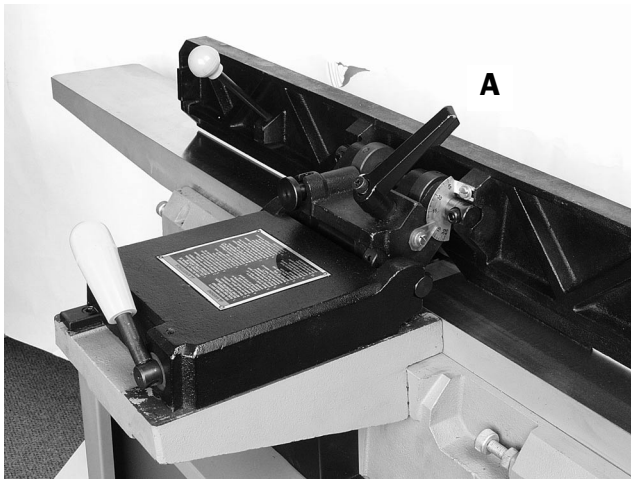


Fig. 7

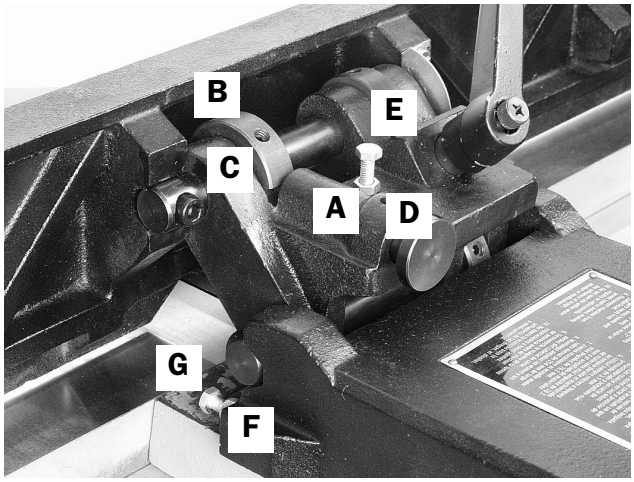


Fig. 8

FENCE

To move the fence, loosen the fence locking lever Fig. 5 (A) and slide across table to desired position. As the fence moves across, the cutterhead is guarded behind to avoid any exposed blades. Do not forget to tighten fence locking lever securely before operating machine.

To tilt fence, loosen lever, Fig. 7 (A) release the plunger Fig. 8 (A) and angle the fence foreward or back using the fence tilting lever.

ADJUSTING POSITIVE STOPS ON FENCE

The positive stops on your jointer allow you to set fence positions of 90 and 45 degrees and allows you set these positions without measuring each time.

Loosen lock handle Fig. 7 (A) and move fence to 90 degrees and position end of plunger Fig. 8 (A) in the notch of the index collar Fig. 8 (B). If the fence is not at exactly 90 degrees to the table, loosen the set screw Fig. 8 (C) in the index collar and with lock handle Fig. 7 (A) released, establish the exact position required with a combination square. Tighten set screw Fig. 8 (C) and lock handle.

To set the fence to 45 degrees facing out, loosen lock handle Fig. 7 (A), establish position at 45 degrees, loosen lock nut Fig. 8 (A), and turn adjustment screw Fig. 8 (B) so it touches the fence and creates a stop. Tighten lock nut Fig. 8 (A) and and lock handle, Fig. 7 (A).

To set fence at 45 degrees facing in, the process is the same as above, but when adjustment is needed, loosen lock nut Fig. 8 (F), and turn adjusting screw Fig. 8 (G) until fence is exactly 45 degrees and touches top of adjusting screw Fig. 8 (G). Tighten lock nut, Fig. (F) and lock handle Fig. 7 (A).

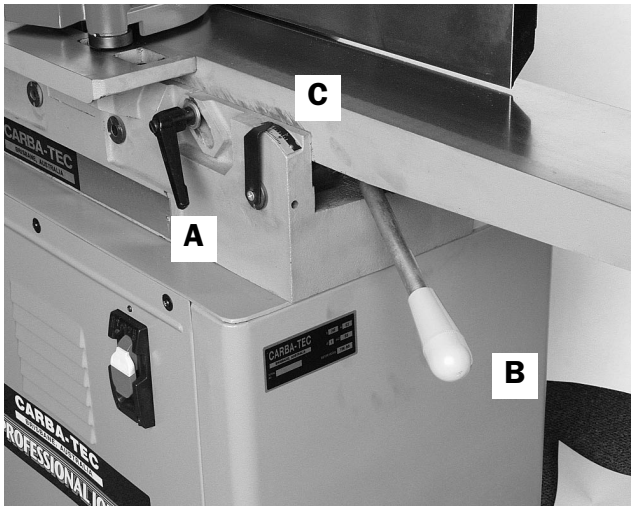


Fig. 9

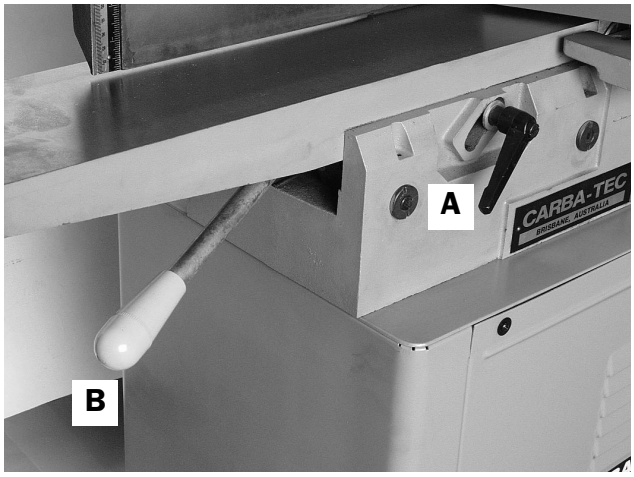


Fig. 10

Fig. 11

TABLE ADJUSTMENTS.

INFEED TABLE

The infeed table adjustment determines the depth of cut, by raising or lowering the table in relation to the cutterhead.

The lower the infeed table the larger the cut. Loosen the table lock handle Fig. 9 (A) at the back of the machine and raise the table by pushing the handle up or down Fig. 9 (B), the gauge in the front Fig. 9 (C) will tell you exactly what your depth of cut is.

OUTFEED TABLE

The outfeed table should be level with the jointer knives at the highest point of their revolution. Once set to this height it should not be adjusted,the depth of cut adjustment comes from the infeed table only. If it is necessary to adjust the outfeed table, loosen the lock handle lever Fig. 10 (A) and raise or lower the handle Fig. 10 (B) underneath the outfeed table. Don't forget to tighten the locking handle Fig. 10 (A).

POSITIVE TABLE STOPS

It is possible to preset the positive stops to maximum and minimum depth of cut so it is not necessary to consult the gauge each time you wish to change to these settings Fig 11.

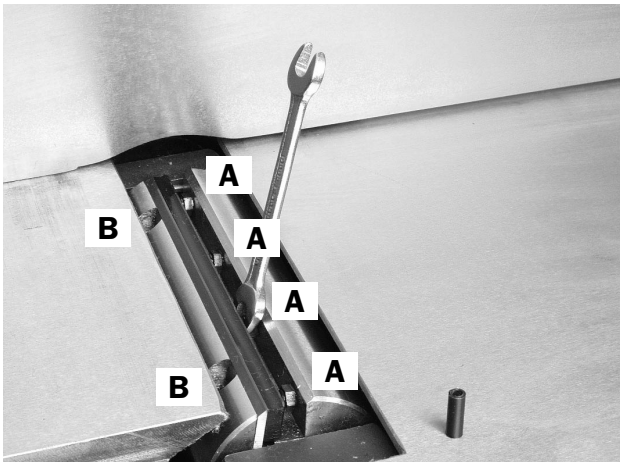


Fig. 12

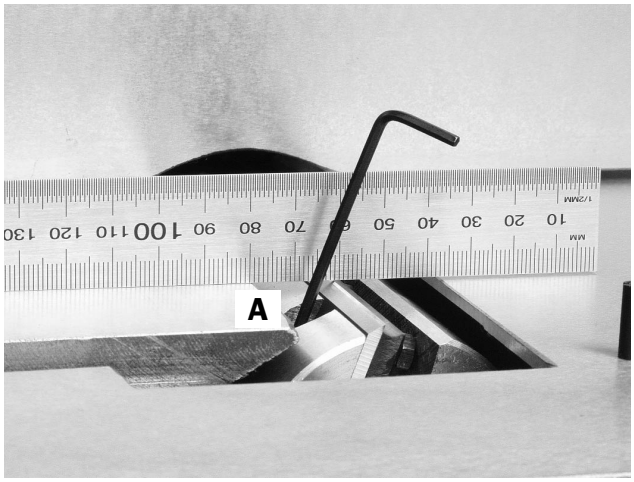


Fig. 13


Fig. 14

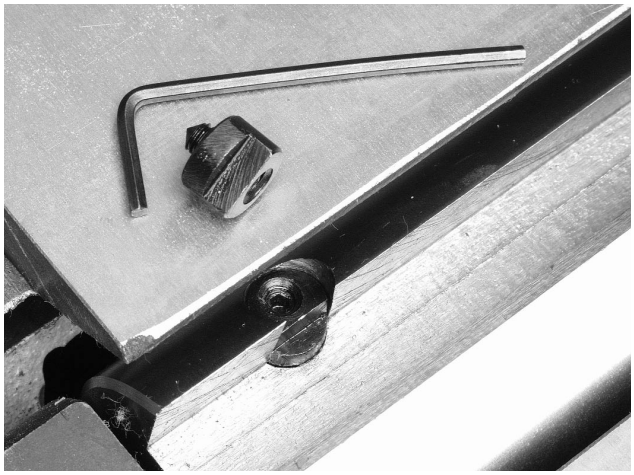


Fig. 15

KNIFE SETTING

The 3 blades in your jointer are factory set, and therefore should be set to the right height and parrallel to the cutterhead. If for some reason you need to adjust the blades

These are the steps to follow.

1. Disconnect machine from power source.
2. Lower infeed table.
3. Remove cutterhead guard.
4. Lay a steel straight edge along the outfeed table so it extends across the cutterhead Fig. 13. When the cutterhead is turned by hand, the blades should just touch the bottom of the straight edge.
5. If the knives are high or low at the ends, loosen the four (4) screws that hold the knife locking bars in place Fig. 12 (A), and turn the knife raising screws Fig. 13 (A), clockwise to raise the knives, and anti clockwise to lower them. When lowering the knives you may need to push them down gently onto the raising screws with a piece of wood after screws are turned.
6. Tighten locking bar screws. Fig. 12 (A)
7. Repeat for all three knives. It is important that they are the same height.
8. Replace cutterhead guard.

REPLACING KNIVES

When it is time to fit new knives to your jointer,follow these steps.

1. Disconnect machine from power source and unplug.
2. Slide the fence to the back so it is clear of the knives.
3. Beware of exposed knives.
4. Remove cutterhead guard.
5. Loosen the 4 knife locking bar screws Fig. 12 (A), remove knife and locking bars. Fig. 14.
6. Repeat for other knives.
7. Remove any resin that may have built up, either on locking bars or in slots.
8. Lower the knife adjustment screws, by turning them anti-clockwise. Fig. 15.
9. Replace knife locking bars and knives. Make certain the knives are sitting down as far as possible on the adjustment blocks.Tighten the knife locking bar screws enough to stop them from moving freely, but not so tight as to stop them from being adjusted by the movement of the knife adjustment blocks.
10. You now need to set each knife according to the procedures described in numbers 4 to 8 in the knife setting section.

WARNING! MAKE SURE ALL LOCKING SCREW ARE TIGHTENED SECURELY BEFORE TURNING MACHINE ON!!

Fig. 16

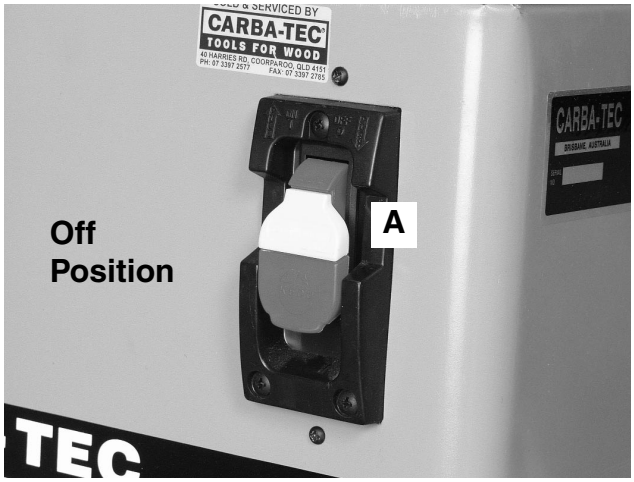


Fig. 17

Fig. 18

TURNING THE MACHINE ON & OFF

This machine is fitted with a switch that needs to be pulled out to switch the machine on, and pushed in to switch the machine off. You can also lock the switch in the off position Fig. 18, by removing the yellow key Fig. 17 (A).

Fig. 19

PLANING OR SURFACING FACE

Surface the widest face first to establish one, totally straight face. This then becomes the reference which goes against the fence allowing squaring of the edge of the board.

Always use a push block when planing or surfacing.

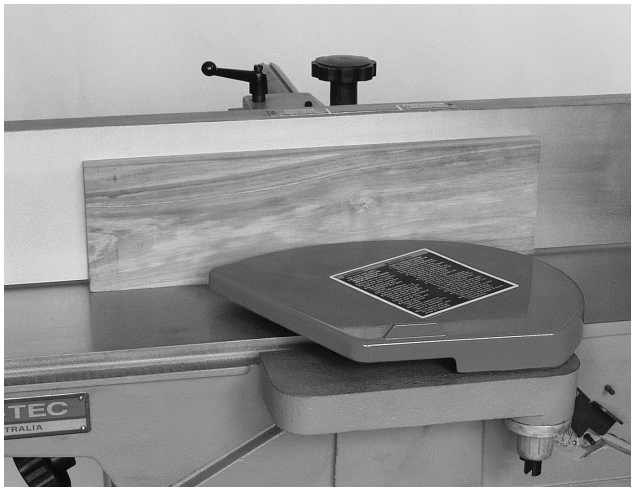


Fig. 20

JOINTING EDGES

The most common operation on a jointer. Makes edge square to planed face and creates a straight surface for edge joining of boards.

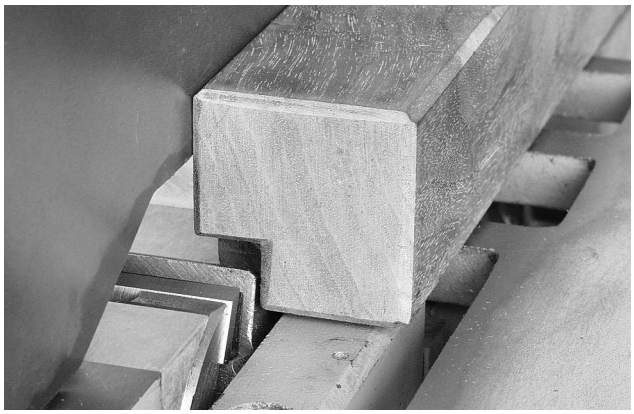


Fig. 21

RABBETING FACILITY

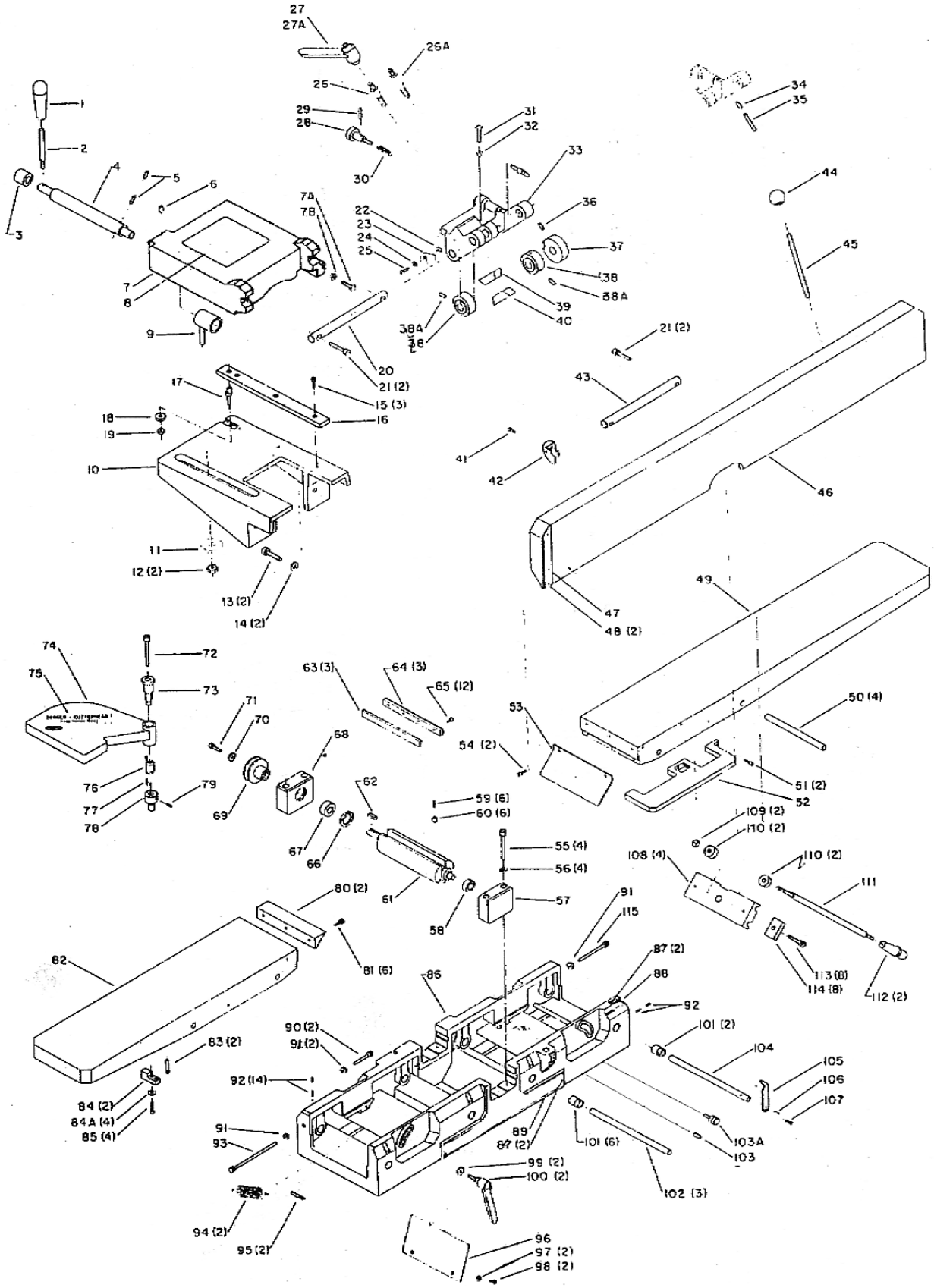
This jointer is able to perform a rabbetting operation, to do this the cutterhead guard must be removed. Remember to replace the cutterhead guard before performing any other operation.

1. Adjust fence to width of rabbet.

2. Lower the infeed table to the depth of rabbet. If rabbet is quite deep it may be necessary to make 2 or more passes at increasing depths to attain full depth of cut.

NOTE: BE SURE TO USE PUSH BLOCKS WHEN RABBETTING.

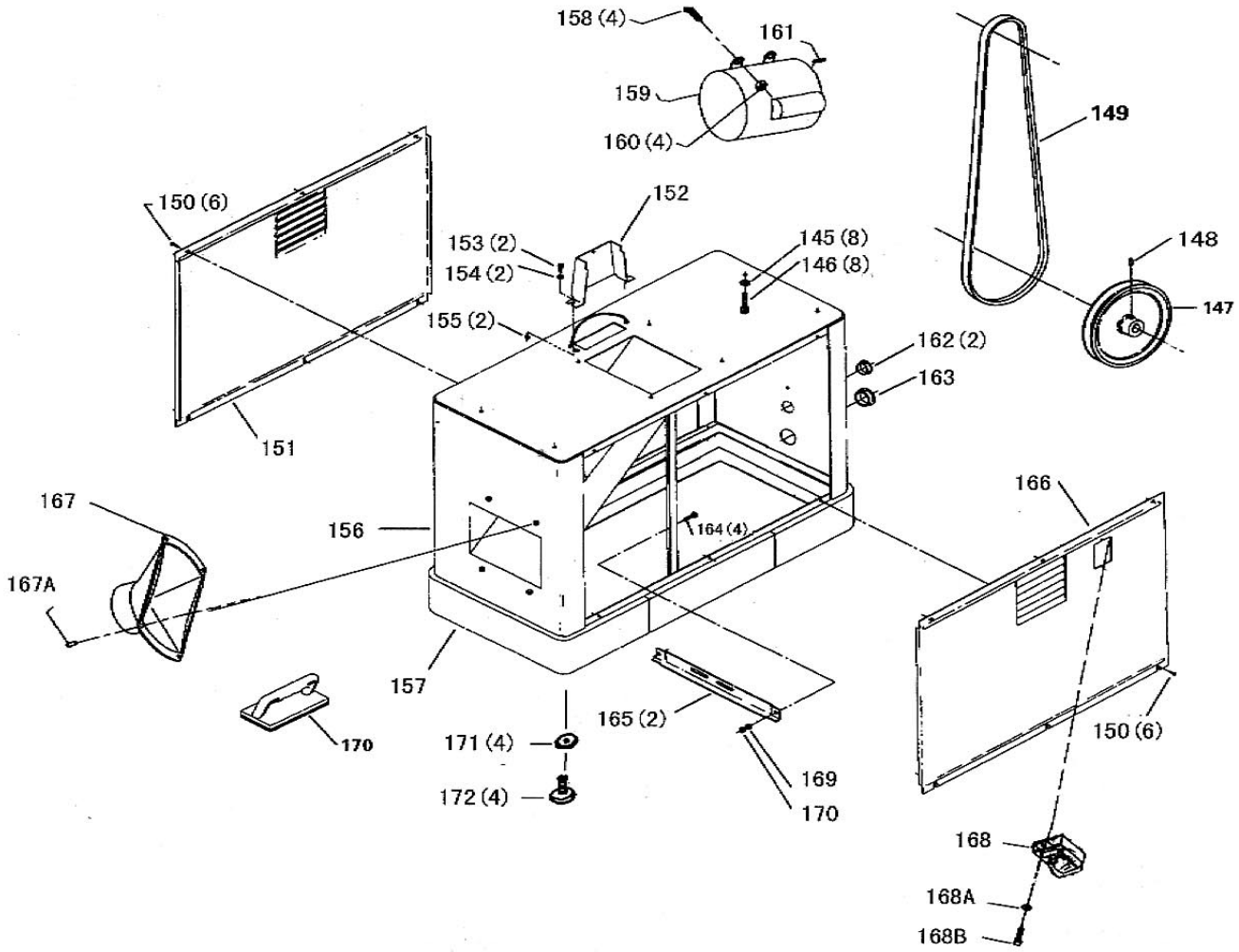
CARBA-TEC®
8" Long-Bed Jointer



REPLACEMENT PARTS

REF. NO.	DESCRIPTION
1	Knob
2	Stud
3	Bushing
4	shaft
5	(DIN 914) M6 x 16mm Hex Soc Set Screw
6	(DIN 913) M8 x 10mm Hex Soc Set Screw
7	Fence Carriage
7A	(DIN 933) M6 x 20mm Hex Soc Set Screw
7B	(DIN 934) M6 Hex Nut
8	Warning Label
9	Collar
10	Support
11	Bushing
12	(DIN 934) M12 Hex Nut
13	(DIN 912) M10 x 30mm Soc Hd Screw
14	Washer
15	(DIN 912) M5 x 16mm Soc Hd Screw
16	Gib
17	Eccentric
18	Washer
19	(DIN 912) M8 Hex Nut
20	Shaft
21	(DIN 912) M8 x 30mm Soc Hd screw
22	Washer
23	Pointer
24	(DIN 125) ∅6mm Flat Washer
25	(DIN 84) M6 x 16mm Cheese Hd Screw
26	Lock Stud
26A	Lock stud
27	Lock Lever
27A	Lock Lever
28	Index Pin Assembly, Incl:
29	(DIN 1481) ∅3 x 20mm Roll Pin
30	Spring
31	(DIN 933) M6 x 25mm Hex Hd Screw
32	(DIN 934) M6 Hex Nut
33	Swivel (See Service Note A)
34	(DIN 913) M8 x 10mm Hex Soc Set Screw (Early Modes Only)
35	(DIN 916) M8 x 35mm Hex Soc Set Screw (Early Modes Only)
36	(DIN 916) M8 x 12mm Hex Soc Set Screw
37	Collar
38	Lock
38A	(DIN 913) M8 x 10mm Hex Soc Set Screw
39	Clamp
40	Threaded Calmp
41	(DIN 84) M6 x 10mm Cheese Hd Screw
42	Tilt Scale
43	Shaft
44	Ball Handle
45	Stud
46	Fence, Incl;
47	Scale
48	Rivet
49	Table – Right
50	Table Shaft
51	(DIN 916) M6 x 20mm Soc Hd Screw
52	Rabbeting Table Extension
53	Chip Deflector
54	(DIN 933) M6 x 12mm Soc Hd Screw
55	(DIN 912) M8 x 80mm Soc Hd Screw
56	(DIN 7980) ∅8mm Lockwasher
*	Cutterhead Assembly, Const of;
57	Bearing Block – Left
58	Bearing

REF. NO.	DESCRIPTION
59	(DIN 916) M5 x 16mm Hex Soc Set Screw
60	Knife Lifter
61	Cutterhead
62	Key
63	Set of Three Knives
64	Lock Bar
65	Special Screw
66	(DIN 472) 471 Internal Retaining Ring
67	Bearing
68	Bearing Block – Right
69	Cutterhead Pulley
70	Washer
71	(DIN 912) M8 x 25mm Soc Hd Screw
*	Guard Assembly, Const of;
72	(DIN 912) M6 x 80mm Soc Hd Screw
73	Guard Clamp
74	Guard
75	Warning Label
76	Spring
77	(DIN 1481) ∅3 x 16mm Roll Pin
78	support
79	(DIN 914) M6 x 12mm Hex Soc Set Screw (Early Models Only)
80	table Lip
81	(DIN 912) M6 x 20mm Soc Hd Screw
82	Table – Left
83	Spring Pin
84	Bumper
84A	(DIN 7980) 06. 1 Lockwasher
85	(DIN 912) M6 x 25mm Soc Hd Screw
86	Base, Incl;
87	Rivet
88	Scale
89	Nameplate
90	Adjusting Screw
91	(DIN 934) M10 Hex Nut
92	(DIN 913) M6 x 10mm Hex Soc Set Screw
93	Adjusting Screw
94	Spring
95	Spring Pin
96	Chipbreaker
97	(DIN 125) ∅6mm Falt Washer
98	(DIN 933) M6 x 12mm Hex Hd Screw
99	Washer
100	Knob
101	Ecentric Bushing
102	Table Shaft
103	(DIN 913) M8 x 16mm Hex Soc Set Screw
103A	Knob (Early Models Only)
104	Table Shaft
105	Pointer
106	(DIN 1481) ∅3 x 8mm Roll Pin
107	(DIN 963) M4 x 10mm Flat Hd Screw
108	Pivot Bracket
109	(DIN 934) M12 Hex Nut
110	Adjusting Washer
111	Lever
112	Knob
113	(DIN 912) M8 x 40mm Soc Hd Screw
114	Clamp Plate
115	Adjusting Screw
* *	Motor Pulley
* *	10 x 13mm Wrench
* *	2. 5mm Hex Wrench
* *	4mm Hex Wrench



REPLACEMENT PARTS

REF. NO.	DESCRIPTION
145	M8 x 20 SOC HD SCREW
146	∅8 FLAT WASHER
147	MOTOR PVLLEY
148	M8 x 10 HEX SOC SET SCREW
149	V – BELT
150	M5 x 10 BUTTOV HD SCR
151	PANEL – BACK SIDE
152	GVARD
153	M6 x 12 HEX HD SCREW
154	∅6 FLAT WASHER
155	M6 HEX NUT
156	CABINET ASSEFLY
158	5/16 – 18 x 1 3/16 CARRIAGE HD SCR
159	MOTORASSY
160	5/16 – 18 HEX NUT
161	KEY
162	PLUG
163	INSVLA TOR
164	5/16 – 18 x 1/2" CARRIAGE BOLT
165	MOTOR BRACKET
166	PANEL – FRONT SIDE
167	DVSTCHV TE
167A	M5 x 10 BUTTOU HD SCR
168	SWITCH
168A	FLAT WASHER
168B	M4 x 12 BUTTOU HD SCR
169	FLAT WASHER
170	5/16 – 18 HEX NUT
171	3/18 – 16 HEX NUT
172	PIASTIC COVERED PAD

ALL ELECTRICAL WORK SHOULD BE UNDERTAKEN BY A LICENSED ELECTRICAL CONTRACTOR.