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SAFETY WARNING:

This list of do's and dont's 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 attempt to machine timber less than 6mm thick as the material may shatter.
- 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.



CONSTRUCTING A WOODEN GAUGE BLOCK

To enable you to check the height of the feed rollers and parallel of the cutter block it is helpful to make a gauge block.



Fig. 1



Fig. 2





ASSEMBLY OF PLANER TO BASE

Your 15" planer comes in 2 packing boxes, one contains the assembled planer, the other, the assembled base, infeed and outfeed rollers plus dust chute.

The best way to lift the planer onto the base, is raising the cutterhead, by turning the handwheel clockwise, Fig. 1 (A) and placing $2 \times 100 \times 50$ mm boards on edge onto the table to the left and right of the machine. Then lower the cutterhead till it grips the boards preventing them from slipping sideways. The protruding ends become handles. You will require 1 fit, healthy person on each corner to lift the planer onto the base.

Align the 4 bolt holes at the corners, Fig. 1 (C) and with the front cover removed from the base, insert bolts from underneath with the heads facing down, through both the base and the planer, fit nuts and washers provided and tighten securely. Replace front cover of base

ASSEMBLING TOP COVER AND DUST CHUTE.

Fasten top cover at 4 corners with screws provided, Fig. 2 (A). The dust chute ramp must point to the back of the planer.Place dust chute over the ramp of the top cover and tighten the 3 hex head bolts on the top Fig. 2 (B) and 3 allen key bolts underneath. Fig. 2 (C)

DUST EXTRACTION CHUTE

This machine is designed to be used with a dust extractor, having a minimum of 600cfm. If using the machine without a dust extractor, the dust chust should be removed to prevent clogging of the 100mm outlet. When the dust chute is removed, the rotating cutterhead is easily accessible and precautions, such as a guard should be installed to prevent accidental hand contact.

ANTIKICKBACK FINGERS (Fig. 3)

These fingers are designed to to prevent timber from being thrown back at the operator. No setting up is required, however it is advisable to clean them occasionally to prevent a build up of resin. Remember to disconnect machine from power source before carrying out any maintenance work.

DEPTH OF CUT ADJUSTMENT

To adjust the depth of cut you need to raise or lower the head assembly which contains the cutterhead. Loosen the locking knobs, Fig. 1 (B) and turn the handwheel clockwise to raise the cutterhead and anticlockwise to lower it. When you have set the machine to the required depth of cut, tighten the locking knobs .The gauge Fig. 1 (D) will tell you what finished size that setting will give you.

The maximum depth of cut is 3/16" on stock narrower than 6". A limiter Fig. 4 (A) is positioned to allow no more than 1/8" to be taken off a board wider than 6".

NOTE: Do not attempt to machine timber less than 6mm thick as the material may shatter.

Fig. 4



Fig. 5



Fig. 6



Fig. 7



REPLACING PLANER KNIVES

- 1. Remove top cover and dust chute.
- 2. Loosen 2 screws Fig. 5 (A) and pivot motor assembly forward.
- 3. Loosen the screws that hold knife locking bar in place Fig. 6 (B).
- 4. Remove all 3 knives, locking bars and screws from the cutterhead.
- 5. Clean the knife slots and bars, removing all traces of sawdust and resin.
- 6. Replace the locking bars and put all three new knives in position, tightening the locking bar screws just enough to prevent the knives from falling out.
- 7. To adjust the height of the knives, you will need the knife setting gauge Fig. 7 (C). Place it on top of the cutterhead.
- 8. To adjust the height of the blades, turn the allen key screws located at each end of the knife locking bars Fig. 7 (E) anticlockwise to lower and clockwise to raise them. The tip of the blades should just brush the bottom of the setting gauge, this should be even along the length of the blade. If there is no movement of the blade when the adjustment screws are moved, the screws holding the knife locking bars in place may be too tight to allow the blades to move.
- 9. All three blades must be the same height, if not, this will result in end snipe. (A dip at the end of the board.)
- 10. Tighten the locking bar screws evenly. Double check that all of them on all three blades are tight.
- 11. Replace top cover and dust chute and return motor to correct position.

ADJUSTING HEIGHT OF CHIP DEFLECTOR

- 1. Access the inside of planer (see previous instructions).
- 2. Loosen off the three slotted screws Fig. 7 (D) that hold the nylon chip breaker in place.
- Slide the chipbreaker down until it is about 0.5mm from the full arc of the blades in the cutter block.CHECK THAT THE CHIP BREAKER DOES NOT MAKE CONTACT WITH THE BLADES.
- 4. Tighten the screws and replace the top cover and dust chute.

FEED ROLLER SPEED CONTROL

Your planer has 2 feed roller speeds 16 fpm and 30 fpm. For general purpose planing on softer woods, the faster speed is suitable, but for hard timbers, the slower feed rate is more effective. A slower speed puts less strain on the motor. A slower feed rate will also give a better finish as there will be more cuts per inch.

When changing the setting of the feed roller speed Fig. 8 (A) it is essential to have the machine running. Pull the speed control lever all the way out for the slow speed, 16fpm. The middle position is neutral, and pushing the lever all the way will give a feed roller speed of 30fpm.

Fig. 8



Fig. 9



Fig. 10







ADJUSTING HEIGHT OF INFEED AND OUTFEED ROLLERS

The infeed Fig. 9 (A) and outfeed Fig. 10 (B) rollers should be 1mm below the cutting circle of the cutter block. To check this use your wooden gauge block and a 1mm spacer, such as a steel rule. The process is the same for both the in and out feed rollers.

- 1. Position the wooden gauge block with the 1mm spacer on top, Fig. 11 (A) & (B) under the cutter head so the knives just brush the top of the spacer when at their lowest point in the cutting circle.Transfer the gauge block to underneath the feed rollers minus the spacer Fig. 12 & 13. The rollers should just touch the top of the gauge block.
- 2. If the rollers need to be adjusted, loosen the nuts Fig. 9 & 10 (C), and turn adjusting screws Fig. 9 & 10 (D) until the rollers make contact with the gauge block. Repeat process for the other end of the rollers.

NOTE: Do not forget to do both the infeed and outfeed rollers. Fig. 12 & 13.



Fig. 13



Fig. 14

ADJUSTING SPRING TENSION OF INFEED AND OUTFEED ROLLERS.

Infeed and outfeed rollers are factory set and should not need adjustment. If they do however, the spring tension of the in and outfeed rollers must be sufficient to evenly feed the stock through the planer. It needs to be even along the length of the roller and not be so tight that it causes damage to the timber and jamming. If adjustment is needed, do this by turning the screws shown Fig. 14 (E) infeed rollers Fig. 14 (F) outfeed rollers at either end of each roller.



Fig. 15



The table rollers Fig. 15 (A) & Fig. 16 (A) are located on the bed of the planer, and are designed to reduce friction as material passes over the table. They are presently set for general purpose planing and are parallel to the table.If you need to adjust them, higher is better for rough sawn stock, and lower, for finished stock, lay a straight edge Fig. 15 (B) across both rollers with a spacer Fig. 15 (C) the height you want the rollers set. The adjustment screws Fig. 16 (D) are eccentric so take care the rollers remain parallel to the table and each other. One side of the planer, the screws turn clockwise to raise or lower the rollers and on the other side they turn anticlockwise to do the same.





Fig. 17



Fig. 18



Fig. 19

ADJUSTING CUTTERHEAD PARALLEL TO TABLE

The cutterhead casting and blades have been set parallel in the factory. If your planer is not cutting parallel, this may be caused by the blades not being properly set.

If you can find no other reason for the out of parallel, check cutterhead casting is parallel by the following procedure using your wooden gauge block.

- After machine is disconnected from power source, put gauge block on the table under the casting. Lower head so it just touches the gauge block Fig. 17.
- Move block to the opposite end to check if it is the same distance from the casting to the block. Fig. 18.
- 3. Repeat process at rear of machine.
- 4. If the head casting is not parallel to the table, tilt machine on its' side and loosen the bolt Fig. 19 (A) and loosen bolt Fig. 19 (B). You will need to adjust the idler sprocket assembly Fig. 19 (C) to release the tension on the chain.
- 5. Remove chain from sprocket on corner of headcasting that needs adjustment.
- 6. Turn sprocket gently by hand to bring that corner into line with the others. One or two teeth should be enough. Clockwise will decrease the table distance from the headcasting anticlockwise will increase it.
- 7. Replace chain without disturbing the new setting. Put idler sprocket assembly back into place and tighten bolts.



Fig. 20



Fig. 21



Fig. 22



LUBRICATION

The oil should be changed once a year in the gear box using extreme pressure oil.

The gear box drain plug is shown at left Fig. 20 (A). The oil fill and level plug is at the top of the gear box.

Note four raising screws Fig. 21 (B) in the outside columns of the machine should be lubricated using a grease.

Periodically remove screw and side cover, clean chains and sprockets lubricate using a light machine oil.

ADJUSTING BELT TENSION

DISCONNECT POWER SOURCE FIRST !!!

Remove the pulley guard Fig. 22 (C) by taking out the 4 fixing screws Fig. 22 (D). Loosen the slotted screws Fig. 23 (E) and lever up the motor by placing a piece of wood under the motor plate.Retighten the slotted screws and replace the pulley cover.

CARBA-TEC 15" Planer



9

REPLACEMENT PARTS

COLUMN 1		dime.	
6.00 ····	DESCRIPTION	MEP .	DESCRIPTION
NU.J.	1-10-10-11 1-10-14	NO.	
1	MI × HIM/HEX FLANCE SCR	-02	NISHEDOMUT
1.0.	WAPPING LABEL	-05	NS < 12MM HEX SOC SET SOR
10	WATNESS LABEL	154	M4x ISBN SPEINCHMY
-	CLABP [*]	10	NIEK REAMINES NEEDER
	SRAL	198	PLATE
-	UPPER CONSIR.	67	NO < 20489 SPHERG PRV
1	MIX 18MM HEX SOC SET SCH	58	OUTPEEDHOLLER
-	M6 HEA NUT	100	Ren a second and an an
£	GREF DEEDAALDR	78	FOLLCH BUSHING
2	NET CONTRACTOR ADDRESS OF ADDRESS	20	OPTION CONTRA
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5.4	1 PHENDALINE CONTENTS		DOLLET DUDHNO
16	OFAOLD	100	OF YERKS
164	# INSOLVED CHURT	90	ME+ KNALLEX SOC SET SOR
100	EXT TOOTH MARKETS	96A	MR + 1256/ HEX SOC SET SOR
NOC1	E MARY NO REPAY FOR TO SCIE	101	MEX INVESTIGATING SCP.
848	SWITCH-COVER ASSIV	197	LIMITOR PLATE
17	# OKREX 1/4" FOUND HD SCR	1901	M5 × RMM FLAT HD SOF
18	MEN 18MM PWNIED SCOL	1941	INFEED ROLLER
112	M8.3 EXT TOOTH WASHER	06	82-7
20	DLOHING .	26	FOLLER BUSHING
21	POWER CORD	907	SPRING
22	SMETCH PLATE	66	HEAD-CASTING
25A	# 1074 x 3.9" PSN HD SCR	96A	NAMEPLATE
258	3/19/10/T TOOTH WASHER	000	PONTER
220	# 10.04 HEX MUT	194C)	EWT
21A	CAPACITOR(Isol UF)	100	CHAIN
238	CAPACITOR(30 UF, MCDEL 25 680, SHP, 1940	100	FEED SPROOFET
24	MEH 20MM CHEEDE HD COR	101	MG.4 FLAT WASHER
245	ME.471,AT WAD RT1	100	M6 × 15MM HEX HD-5071
26	MULTER NUT	103	CUOHINO .
28	MOX 12MM HEX PLANCE SOP	104	PVANDLE
	DEFLECTOR FLATE	100	OF WATT
00	MOTOR BRADKET (CMO)	1.00	HANGER
20	MOTOR DPACKET (EMO)	111	IV6 K 10MW HEX SOG HO SCR.
21	MERFLAT BISCHER		CODE NOTE AD
200	MERI 45MM HEX HE SCH	10	SEAUNC
	BUCFIERA .	1 54	NUCLEY POLLET AGOT
-	APR.20	110	PTNUT CONTRACTOR
100	PLALEY GUARD (CMO)	112	COLLAR
200 C	PULLEY GUARD (EMD)	110	POINTED (SET OF THREE)
21	BRUTLER PLELEY	1.104	KAPE LOOKING BAR
42	MELLAS TRASPERT	100	BALL INCOMENCE
43	HERE STANDARD FROM THE STATE	100	DALL BEAGINES
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545	LOOK BOXT	129	PLATE
304	HOTOF ARRY MODEL 2048E (34P 1950)	130	MENTON HEX FLANDER OF
36	SWORT SHORY)	131	BUSHNO
96A	MAX 10MM CHEESE HD SCR (NEW CRUV)	132	LOOKIGIT
57	MEX 16MM HEX HOLSOR (3PH ONLY)	133	KEY
58	MS LLOCK WASHERESPHICKLYT	134	Mile MMM HEX SCO SET SCR
504	MOTOR STARTER SPH, 200-220V)	125	MB v 10MM HEX SOC HEXCH
508	MOTOR STARTER (3PH, 440V)	136	ADJ. SCR
* *	COMMETTORIOTY 2)	137	M6 × 12MM HEX FLANGE SCR
5.8	MUTOR CORD	138	SPRING
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DAG = SARLY MODELS GNLY
SMC = SUPPRINT MODELS ONLY

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REPLACEMENT PARTS

REF.	Distance in the second s
NO.	DESCRIPTION .
201	RANCEE
202	M10 HEX NUT
208	M10 R.AT WASHER
254	DIFFECTIONAL PLATE
206	HANCHINE .
200	PUD-ING
207	NUT
208	NEY .
209	BLEVATING SCH
290	COLUMN
29.5	SCALE
242	M3 ~ 6MM CHEESE HD SCR
213	COLUMN BPACER
214	M8× 30MM HEX HD/SOP
215	MB.4FLAT WASHER
295	COLUMN GAP
217	NUT
218	BUDVATING SCR
219	COLUMN
200	COLLARV SPACER
221	M6+: 19MM HEX SCC DET SCN
232	TABLE
2.00	M10 x 13MM HEX SOC SET SOR
234	ECCENTRIC STUD
225	BALL BEARING
356	INT RET RING
887	BPROCKET
258	MID FLAT WADHER
2018	MIDINEX NUT
290	CHAIN
281	SALL BEARING
282	SED POLLER
283	SUPPORTASSY, INCL:
236A	IOLE71
2500	DOT NOT RENG
254	MS FLAT WASHER
256	M8× 20MN HEX HO/SCR
290	BALL BEARING
240	INT RET RING
24.1	SPROOKET
242	MID FLAT WARHER
243	MID HEX NUT
264	SASE
245	M8.4FLAT WASHER
246	MEHECHUT
	KNIFE GAGE AREY CORST OF :
270	LUI .
271	EXTRET RING
272	INVESTIGACIE BLOCK
253	WHENCH HARRIN TRAM
2*4	WHENCH HOMM > 12MM
275	INM HEX WRENCH
2.46	SVIM HEX WRENCH
34.4	3MM HEX WRENCH
278	2.0MM HOX WRENGH

* NOT SHOWN ASSEMBLED



REF.		REF.	DE COMPENSION OF
540	DESCRIPTION	5475	DESCRIPTION
Table 1	Use - Social a carry down cars forms	1000	WEY .
3621	NUMBER OF AN ADDRESS OF A DECK OF A DECK OF A DECK	300	Well's
3402	ODVGP	204	SPHOLC1
303	Mix 18MM (EXHIBICITE COR	00%A	EAL.
304	M8.4FLAT AD-3HER	3,20	DRAFT .
3000	SPROCHET	3673	GENR
305	CHAN	324	BALL REARING
307	KNO8	326	HANELE FOO ASSY
308	BALL BEARING	100	ORING
309	PRION	328	OARET
310	KEY'	325A	(DN 94) M6 × IMM CHEESE HD 9CP
311	CIEAR	0.000	M6.4FUAT WADHER
312	DALL BEARING	329	OBAN BOX HOUSING
313	DALL DEARING	12114	PU00
314	PINON	3256	PLUG
315	GEAR	2010	OIL LEVEL PULIS
316	BALL REARING	330	08.55A.
017	OK. SEAL	301	OIL SEAL COVER
318	BALL BEARING	332	MS-< 12MM FAM HD COP
210	EXT RET PLVD	N N	LUBRICANT (APPRCIX 20 CZ)

REPLACEMENT PARTS



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



REF. NO.	DESCRIPTION
401	CABINET ASSY INCL:
222	TABLE
403	EXTENDED WORKING BRACKET
404	BED ROLLER
405	BALL BEARING
406	SPECIAL SCR
407	HEX NOT
408	FLAT WASHER
409	LOCK WASHER
410	M6 x 20 HEX SOC HD SCR
411	3/8 - 18 HEX NOT
412	PIASTIC COVERED PAD