

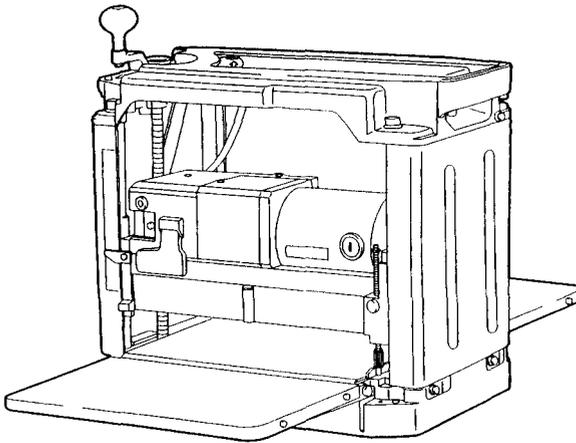
# Makita

アメリカ

## Planer

304 mm (12") MODEL 2012NB

### INSTRUCTION MANUAL



DOUBLE  
INSULATION

#### SPECIFICATIONS

Cutting width	Max. cutting depth			
304 mm (12")	3.0 mm (1/8") of stock width less than 150 mm (5-7/8") 1.5 mm (1/16") of stock width from 150 mm (5-7/8") to 240 mm (9-1/2") 1.0 mm (3/64") of stock width from 240 mm (9-1/2") to 304 mm (12")			
Feed rate/min.	Table size (W x L)	No load speed (RPM)	Overall dimensions (W x L x H)	Net weight
8.5 m (27.9 ft.)	304 mm x 771 mm (12" x 30-3/8")	8,500	483 mm x 771 mm x 401 mm (19-1/64" x 30-3/8" x 15-25/32")	27 kg (59.5 lbs)

- Manufacturer reserves the right to change specifications without notice.
- Note: Specifications may differ from country to country.

WARNING: For your personal safety, READ and UNDERSTAND before using.

SAVE THESE INSTRUCTIONS FOR FUTURE REFERENCE.

# For Your Own Safety Read Instruction Manual Before Operating Planer

## GENERAL SAFETY PRECAUTIONS (For All Tools)

1. **KNOW YOUR POWER TOOL.** Read the owner's manual carefully. Learn the tools applications and limitations, as well as the specific potential hazards peculiar to it.
2. **KEEP GUARDS IN PLACE** and in working order.
3. **REMOVE ADJUSTING KEYS AND WRENCHES.** Form habit of checking to see that keys and adjusting wrenches are removed from tool before turning it on.
4. **KEEP WORK AREA CLEAN.** Cluttered areas and benches invite accidents.
5. **DON'T USE IN DANGEROUS ENVIRONMENT.** Don't use power tools in damp or wet locations, or expose them to rain. Keep work area well lighted.
6. **KEEP CHILDREN AWAY.** All visitors should be kept safe distance from work area.
7. **MAKE WORKSHOP KID PROOF** with padlocks, master switches, or by removing starter keys.
8. **DON'T FORCE TOOL.** It will do the job better and safer at the rate for which it was designed.
9. **USE RIGHT TOOL.** Don't force tool or attachment to do a job for which it was not designed.
10. **WEAR PROPER APPAREL.** Wear no loose clothing, gloves, neckties, rings, bracelets, or other jewelry which may get caught in moving parts. Nonslip footwear is recommended. Wear protective hair covering to contain long hair.
11. **ALWAYS USE SAFETY GLASSES.** Also use face or dust mask if cutting operation is dusty. Everyday eyeglasses only have impact resistant lenses, they are NOT safety glasses.
12. **SECURE WORK.** Use clamps or a vise to hold work when practical. It's safer than using your hand and it frees both hands to operate tool.
13. **DON'T OVERREACH.** Keep proper footing and balance at all times.
14. **MAINTAIN TOOLS WITH CARE.** Keep tools sharp and clean for best and safest performance. Follow instructions for lubricating and changing accessories.
15. **DISCONNECT TOOLS** before servicing; when changing accessories such as blades, bits, cutters, and the like.
16. **REDUCE THE RISK OF UNINTENTIONAL STARTING.** Make sure switch is in off position before plugging in.

17. **USE RECOMMENDED ACCESSORIES.** Consult the owner’s manual for recommended accessories. The use of improper accessories may cause risk of injury to persons.
18. **NEVER STAND ON TOOL.** Serious injury could occur if the tool is tipped or if the cutting tool is accidentally contacted.
19. **CHECK DAMAGED PARTS.** Before further use of the tool, a guard or other part that is damaged should be carefully checked to determine that it will operate properly and perform its intended function — check for alignment of moving parts, binding of moving parts, breakage of parts, mounting, and any other conditions that may affect its operation. A guard or other part that is damaged should be properly repaired or replaced.
20. **DIRECTION OF FEED.** Feed work into a blade or cutter against the direction of rotation of the blade or cutter only.
21. **NEVER LEAVE TOOL RUNNING UNATTENDED. TURN POWER OFF.** Don’t leave tool until it comes to a complete stop.
22. When servicing use only identical replacement parts.
23. **POLARIZED PLUGS.** To reduce the risk of electric shock, this equipment has a polarized plug (one blade is wider than the other). This plug will fit in a polarized outlet only one way. If the plug does not fit fully in the outlet, reverse the plug. If it still does not fit, contact a qualified electrician to install the proper outlet. Do not change the plug in any way.

**VOLTAGE WARNING:** Before connecting the tool to a power source (receptacle, outlet, etc.) be sure the voltage supplied is the same as that specified on the nameplate of the tool. A power source with voltage greater than that specified for the tool can result in **SERIOUS INJURY** to the user — as well as damage to the tool. If in doubt, **DO NOT PLUG IN THE TOOL.** Using a power source with voltage less than the nameplate rating is harmful to the motor.

**EXTENSION CORDS.** Make sure your extension cord is in good condition. When using an extension cord, be sure to use one heavy enough to carry the current your product will draw. An undersized cord will cause a drop in line voltage resulting in loss of power and overheating. Table 1 shows the correct size to use depending on cord length and nameplate ampere rating. If in doubt, use the next heavier gage. The smaller the gage number, the heavier the cord.

Table 1. Minimum gage for cord

Ampere Rating		Volts	Total length of cord in feet			
		120 V	25 ft.	50 ft.	100 ft.	150 ft.
More Than	Not More Than	AWG				
0	6		18	16	16	14
6	10		18	16	14	12
10	12		16	16	14	12
12	16		14	12	Not Recommended	

## **ADDITIONAL SAFETY RULES**

1. Wear eye protection.
2. Don't use the tool in the presence of flammable liquids or gases.
3. Make sure that all covers are installed in place before operation.
4. Handle the blades very carefully.
5. Check the blades carefully for cracks or damage before operation.  
Replace cracked or damaged blades immediately.
6. Tighten the planer blade installation bolts securely.
7. Remove nails and clean the workpiece before cutting. Nail, sand or foreign matter can cause blade damage.
8. Do not wear gloves during operation.
9. Do not remove chips from the chip chute when the motor is running.  
Clean out chips after the blades come to a complete stop. Always use a stick, etc. when cleaning them out.
10. Do not leave the tool running.
11. Don't abuse cord. Never yank cord to disconnect it from receptacle. Keep cord away from heat, oil, water and sharp edges.

**SAVE THESE INSTRUCTIONS.**

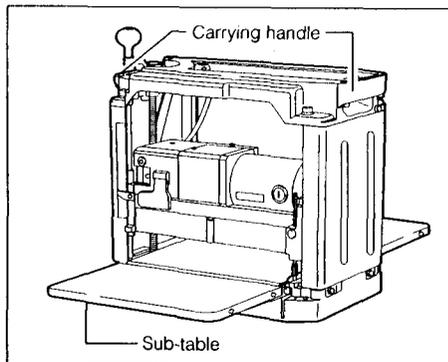
## Movement and transport of planer

### CAUTION:

Watch your step when moving the tool.

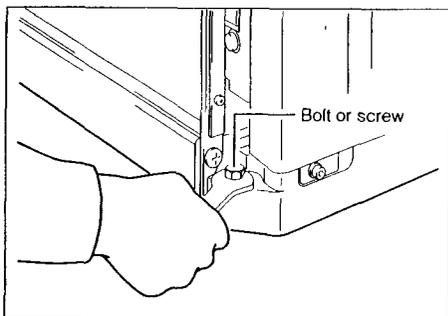
Fold the sub-tables. Grasp the carrying handles when moving the tool.

When transporting it by vehicle, secure with a rope or other substantial means to prevent tipping or movement.



## Positioning the planer

Locate the tool in a well lit and level place where you can maintain good footing and balance. Bolt/screw it to the workbench or planer stand (optional accessory) using the bolt holes provided in the base.



## Switch action

### CAUTION:

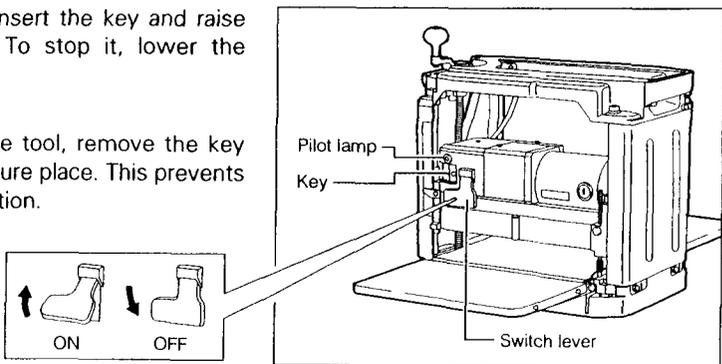
Before plugging in the tool, always be sure that the tool is switched off.

The pilot lamp lights up when the tool is plugged into the power source.

To start the tool, insert the key and raise the switch lever. To stop it, lower the switch lever.

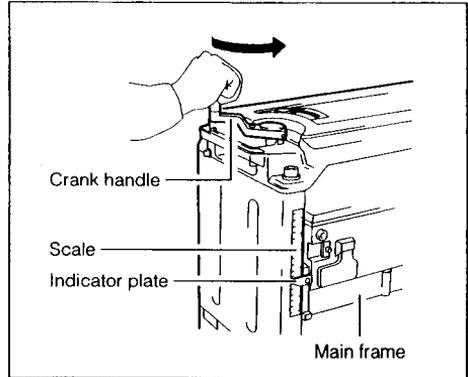
### CAUTION:

When not using the tool, remove the key and store it in a secure place. This prevents unauthorized operation.



### Dimensional adjustment

Lower the main frame by turning the crank handle counterclockwise until the indicator plate points to the scale graduation indicating the desired finished dimension. One full turn of the crank handle moves the main frame 2 mm ( $3/32$ " ) up or down. The scale has inch graduations on its right side and metric graduations on its left side.



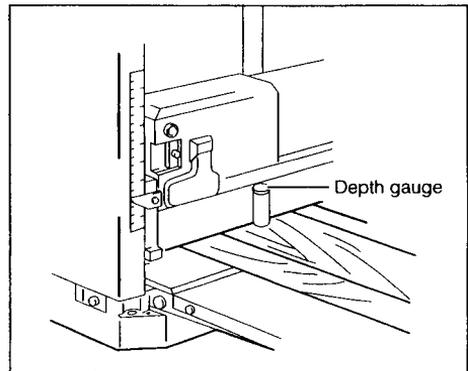
### Adjusting depth of cut

The maximum depth of cut differs depending upon the width of workpiece being cut. Refer to the table below. When you need to remove more than the amount specified in the table, set the depth of cut shallower than the amount and make two or more passes.

Width of workpiece being cut	Maximum depth of cut
Less than 150 mm (5-7/8")	3.0 mm (1/8")
150 mm (5-7/8") – 240 mm (9-1/2")	1.5 mm (1/16")
240 mm (9-1/2") – 304 mm (12")	1.0 mm (3/64")

To adjust the depth of cut, proceed as follows.

Insert the workpiece flat on the table top. Lower the main frame by turning the crank handle counterclockwise. The depth gauge will rise and the amount of gauge rise indicates the depth of cut.



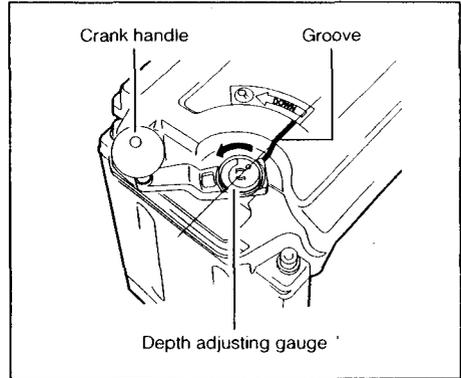
### CAUTION:

- Always lower the main frame when aligning the indicator plate with the graduation indicating the desired finished dimension. If you raise the main frame into the desired finished dimension, additional play in the screw may result. This may cause an undesired finished dimension.
- Always place the workpiece flat on the table top when predetermining the depth of cut. Otherwise, the predetermined depth of cut will differ from actual depth of cut.

### Depth adjusting gauge

Use the depth adjusting gauge when you need to predetermine the depth of cut more accurately. To do so, proceed as follows.

- First, plane the workpiece at the predetermined depth of cut. Measure the thickness of the planed piece to know how much more stock you need to remove.
- Turn the depth adjusting gauge on the crank handle until the 0 graduation is aligned with the groove on the tool.
- Now turn the crank handle counterclockwise until the graduation for the desired depth of cut is aligned with the groove on the tool.
- When you need to remove more than the amount specified in the table mentioned in the "Adjusting depth of cut" section, set the depth of cut shallower than the amount and make two or more passes.



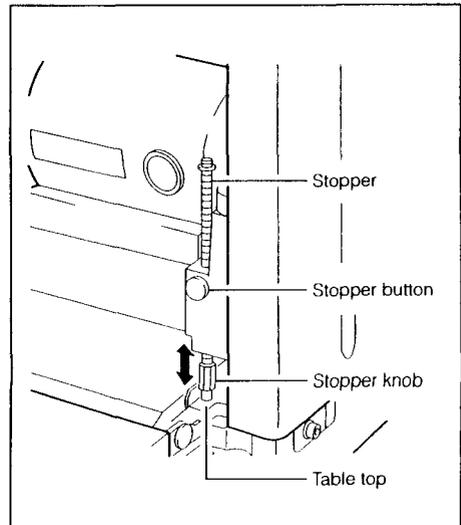
### Stopper

Use the stopper when you need to plane many workpieces to the same thickness. To do so, proceed as follows.

- Turn the crank handle until the indicator plate points to the scale graduation indicating the desired finished dimension.
- Depress the stopper button and lower the stopper until it just contacts the table top.
- If you need fine adjustment of the stopper, turn the stopper knob.

#### CAUTION:

When the stopper is not in use, always raise it to the topmost position. Never force the crank handle when the stopper is in contact with the table top. This may cause tool damage.



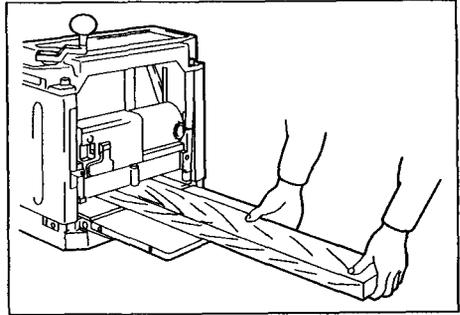
**Operation**

**CAUTION:**

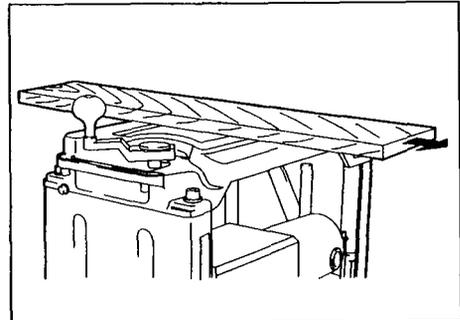
Two or more pieces of narrow but similar thickness stock can be passed through the planer side by side. However, allow some spacing between the stock to permit the feed rollers to grip the thinnest piece. Otherwise, a slightly thinner piece could be kicked back by the cutterhead.

Place the workpiece flat on the table top. Determine the depth of cut as described before. Switch on the tool and wait until the blades attain full speed. The workpiece should not be in contact with the feed roller when you turn the tool on. Then insert the workpiece flush with the table top.

When cutting a long or heavy workpiece, lift up its end slightly at the start and the end of the cut to avoid gouging or sniping at the extreme ends of the workpiece.



The use of the tool top enables quick, effortless return of the workpiece to the infeed table side. This is especially convenient with two operators.



**CAUTION:**

- Workpieces with the following dimensions cannot be fed into the tool because the interval between the two feed rollers is 129 mm (5-1/16"). Do not try to cut them.

1		Less than 130 mm (5-1/8") long.
2		Having a groove more than 130 mm (5-1/8") wide.
3		Having a grooves at intervals of 130 mm (5-1/8") wide.

- Stop the tool when the workpiece has stalled. Allowing the tool to run with a stalled workpiece causes rapid wearing of the feed rollers.

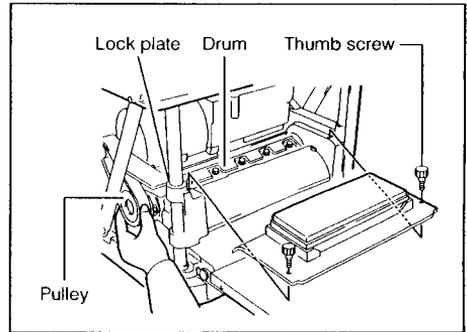
## Replacing planer blades

### CAUTION:

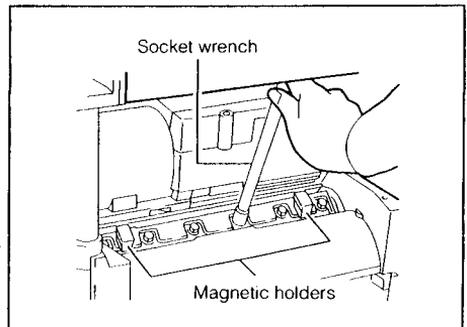
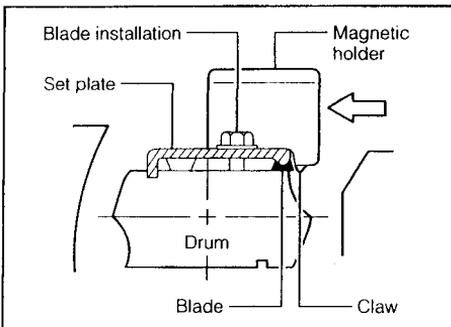
- Always be sure that the tool is switched off and unplugged before removing or installing the blades.
- Handle the blades very carefully when removing or installing the blades to prevent cuts or injury from the blades and to prevent damage to the blades. They are razor-sharp.
- Clean out all chips, dust, pitch or foreign matter adhering to the drum or blades before installing the blades.
- Use blades of the same dimensions and weight, or drum oscillation/vibration will result, causing poor cutting action and, eventually, tool breakdown.
- Replace both blades at the same time.
- The disposable-type blade has a cutting edge on both sides. When one cutting edge becomes dull, you can use the other cutting edge. Always remove resin and dirt sticking to the reverse side of the blade before using the other cutting edge. This blade must not be re-sharpened. When both cutting edges become dull, the blade should be carefully thrown away.

### 1. Removing blades

Loosen the thumb screw which secures the chip cover and remove the chip cover. Remove the screws which secure the right side cover. Then remove the right side cover. Turn the pulley until the drum can be locked in the position whereby the blade installation bolts face upward.



Place the two magnetic holders on the set plate and push them in the direction of the arrow until the claw contact the blade. Remove the six blade installation bolts using the socket wrench. Grip the magnetic holders and raise them straight up to remove the set plate and the blade from the drum. Press the lock plate and turn the pulley 180° to lock the drum. Remove the other blade as described above.

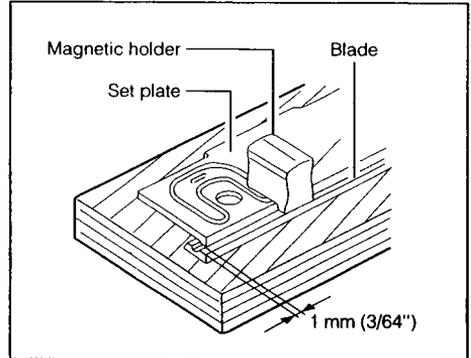


## 2. Installing blades

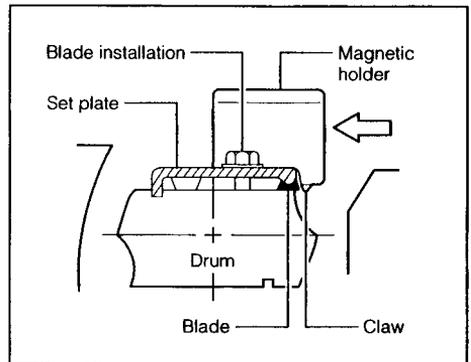
### CAUTION:

Use only Makita socket wrench provided to tighten the blade installation bolts. The use of any other socket wrench may cause overtightening or insufficient tightening of the bolts, resulting in severe injury.

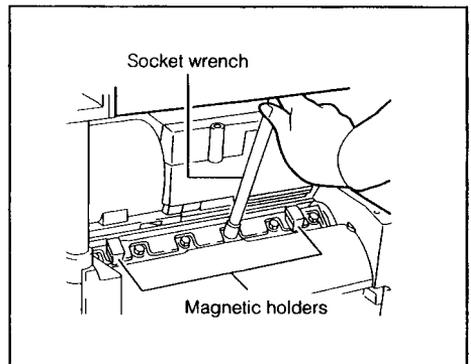
Provide a flat wood block approx. 300 mm (11-13/16") long and 100 mm (3-15/16") wide. Place the blade and the set plate on the wood block so that the blade locating lug of the set plate rests in the groove of the blade. Adjust the set plate so that both ends of the blade protrude approx. 1 mm (3/64") beyond the end of the set plate. Place the two magnetic holders on the set plate and push them until the claw contacts the blade.



Grip the magnetic holder and slip the heel of the set plate into the groove in the drum. Install the blade installation bolts.



After tightening all the blade installation bolts lightly and evenly from the center to the outside, tighten them completely following the same sequence. Remove the magnetic holders from the set plate.



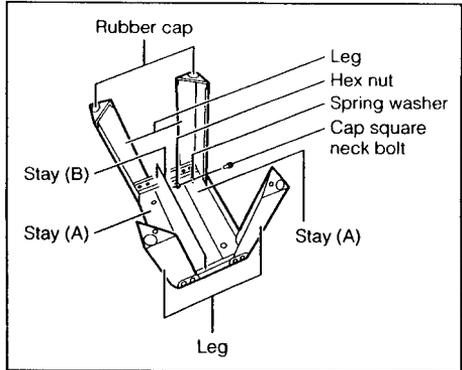
Install the other blade as described above. Rotate the drum slowly while pressing the lock plate to make sure there is nothing abnormal. Then install the chip cover and the side cover.

**CAUTION:**

- Do not tighten the blade installation bolts without the blade locating lug of the set plate correctly resting in the groove of the blade. This may cause damage to the blade and potential injury to the operator.
- Do not turn the tool on with the chip cover removed.

**Planer stand (optional accessory)**

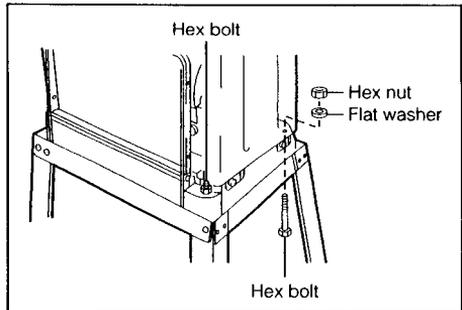
Place the stays on a level location and assemble the legs inside. Secure with the cap square neck bolts, spring washers and hex nuts, then attach the rubber caps to the ends of the legs.



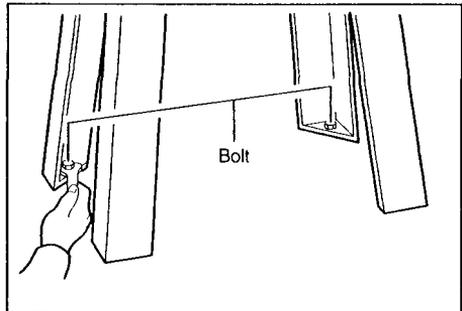
Now set the planer on the top of the assembled stand and secure with the four hex bolts, flat washers and hex nuts.

**NOTE:**

Insert the hex bolts through the holes from the reverse side of the stand and secure them with the flat washers and hex nuts. If you insert the hex bolts from above the planer base, the hex bolts cannot be firmly secured.



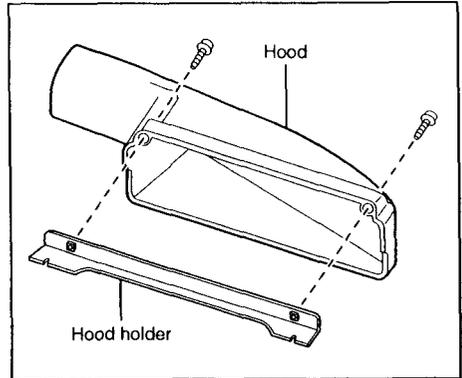
The planer stand should be bolted with the four bolts to the floor using the bolt holes provided in the legs.



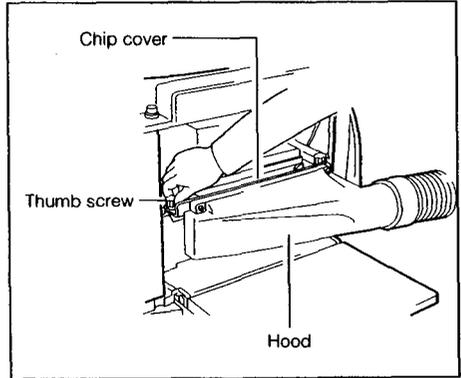
**Hood set (optional accessory)**

When you wish to maintain clean operations through easy dust collection, connect the vacuum cleaner to the planer usin this hood.

Attach the hood holder to the hood and secure with the screws.



Loosen the thumb screws which secure the chip cover. Attach the hood to the planer and secure the chip cover and the hood together by tightening the thumb screws.



## MAINTENANCE

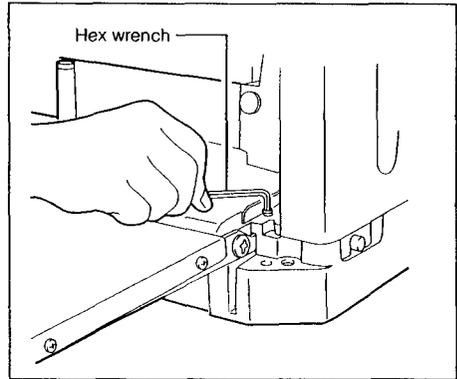
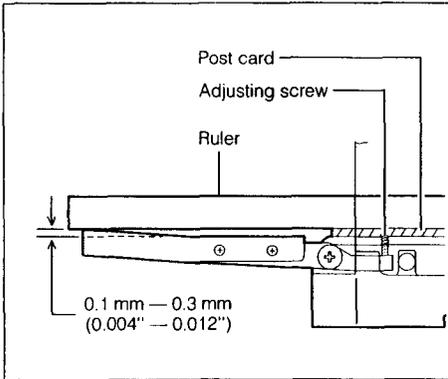
### CAUTION:

Always be sure that the tool is switched off and unplugged before attempting to perform inspection or maintenance.

### Adjusting height of sub-table

The height of sub-table is factory-adjusted. If further adjustment is necessary, proceed as follows.

Place a postcard on the table and also place a ruler on the postcard. Turn the adjusting screw with the hex wrench until the end of the sub-table contacts the ruler. Now the end of the sub-table is from 0.1 to 0.3 mm (0.004" – 0.012") above the table surface.

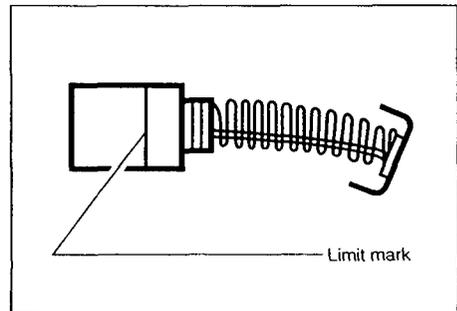


### Keeping planer blades sharp

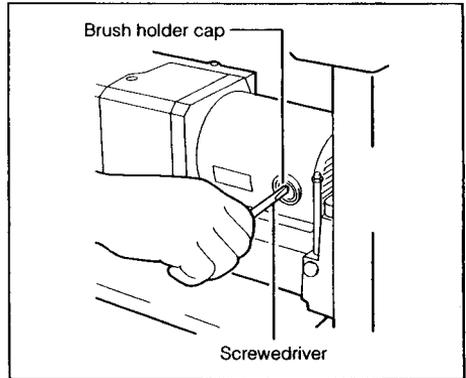
Dull blades can cause rough finish, an overload of the motor and dangerous kickback of the workpiece. Replace dull blades immediately.

### Replacing carbon brushes

Remove and check the carbon brushes regularly. Replace when they wear down to the limit mark. Keep the carbon brushes clean and free to slip in the holders. Both carbon brushes should be replaced at the same time. Use only identical carbon brushes.



Use a screwdriver to remove the brush holder caps. Take out the worn carbon brushes, insert the new ones and secure the brush holder caps.

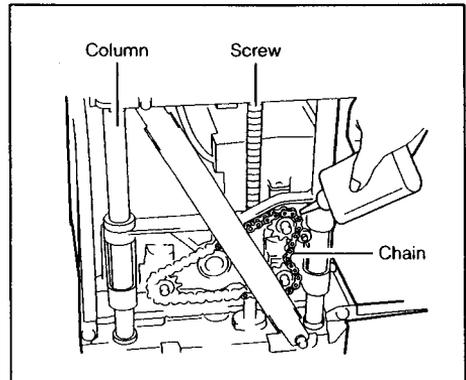


### Lubrication

Oil the chain (after removing the side cover R), the four columns and the screws for elevating the main frame. This periodic lubrication should be performed with machine oil.

### CAUTION:

Oiling and all maintenance should be done with the tool turned off and unplugged.



### Cleaning

Always brush off dirt, chips and foreign matter adhering to the roller surfaces, motor vents and drums.

To maintain product SAFETY and RELIABILITY, repairs, any other maintenance or adjustment should be performed by Makita Authorized or Factory Service Centers, always using Makita replacement parts.

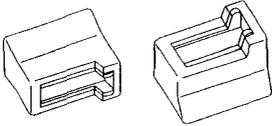
## ACCESSORIES

### CAUTION:

These accessories or attachments are recommended for use with your Makita tool specified in this manual. The use of any other accessories or attachments might present a risk of injury to persons. The accessories or attachments should be used only in the proper and intended manner.

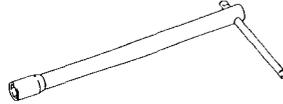
#### • Magnetic holder

Part No. 762014-4



#### • Socket wrench 9

Part No. 782203-5



#### • Planer blade 306

Part No. 793347-6



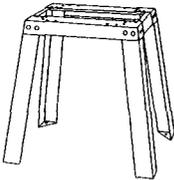
#### • Hex wrench 2.5

Part No. 783208-8



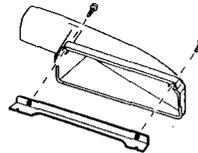
#### • Stand

Part No. STEX 122383

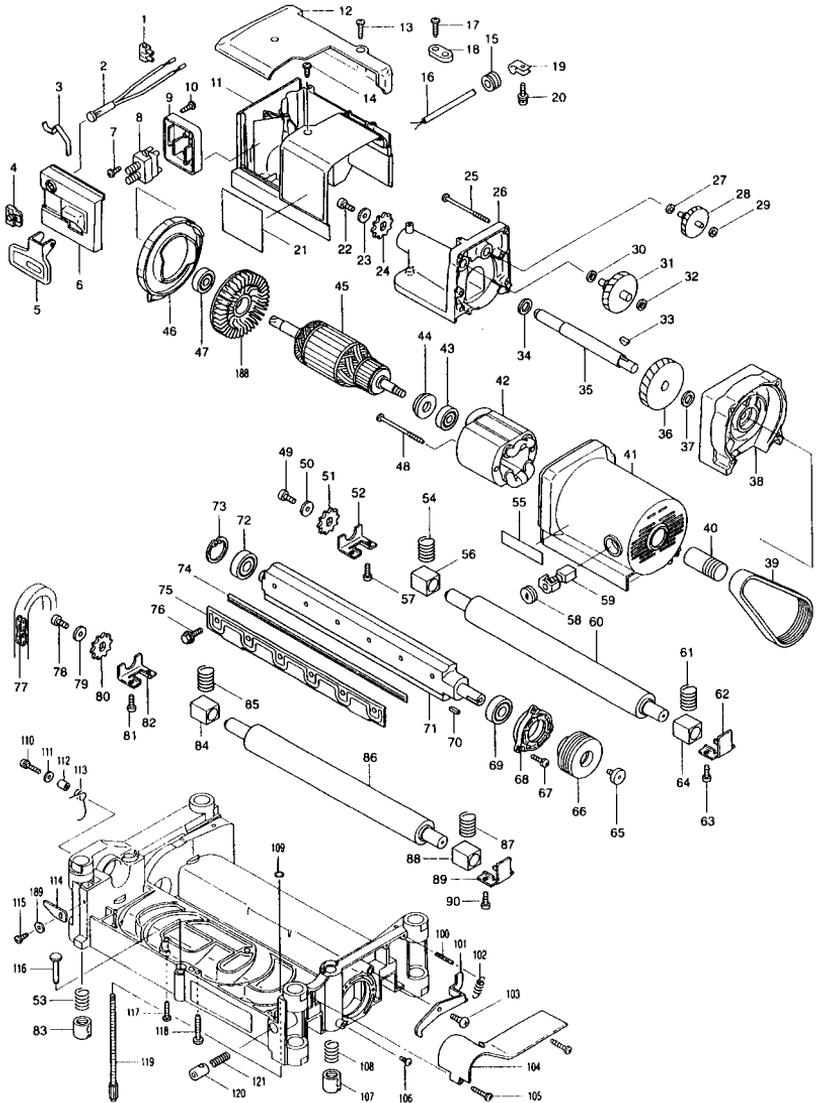


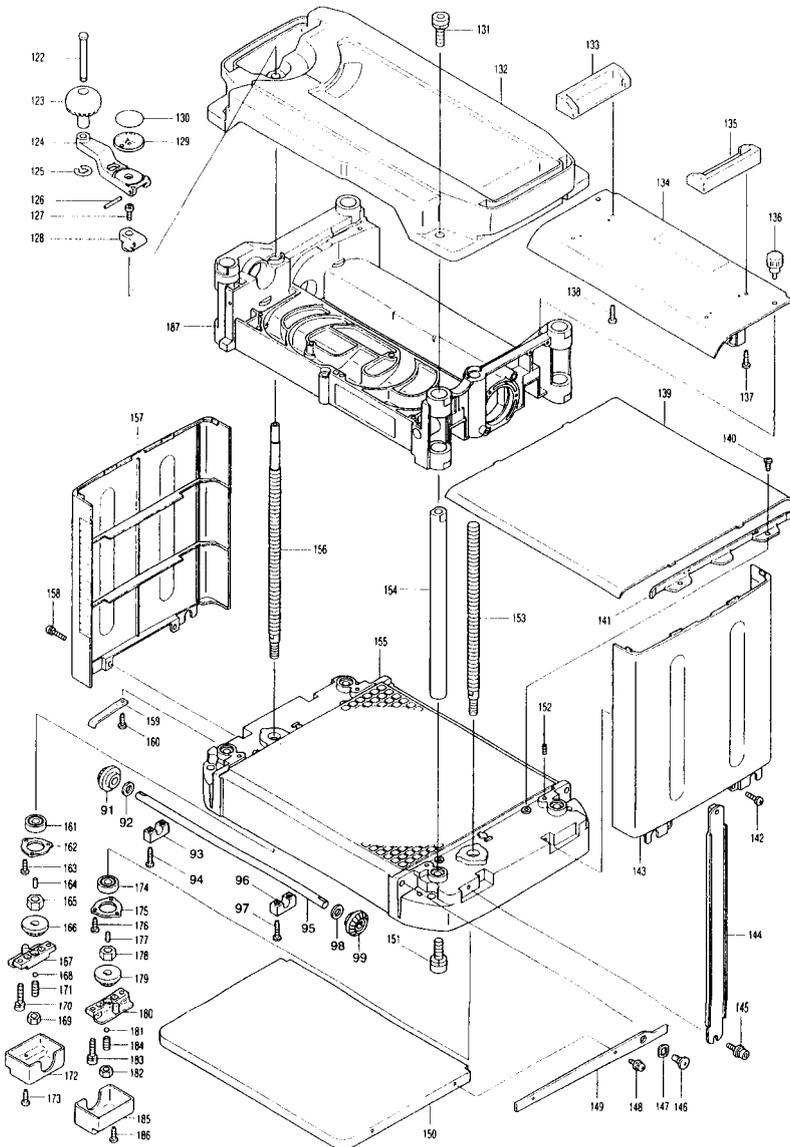
#### • Hood set

Part No. 193036-7



# 304 mm (12") PLANER Model 2012NB





Note: The switch and other part configurations may differ from country to country.

ITEM NO.	NO. USED	DESCRIPTION	ITEM NO.	NO. USED	DESCRIPTION
<b>MACHINE</b>			<b>MACHINE</b>		
1	1	Terminal Block	72	1	Ball Bearing 6202LLB
2	1	Pilot Lamp Complete	73	1	Retaining Ring R - 35
3	1	Leaf Spring	74	2	Planer Blade 306
4	1	Key	75	2	Set Plate
5	1	Switch Lever	76	12	Hex. Flange Head Bolt M6x17
6	1	Switch Cover	77	1	Chain 35 - 46
7	2	Tapping Screw Bind PT3x8	78	1	Torsion Spring 9
8	1	Switch	79	1	Flat Washer 6
9	1	Switch Base	80	1	Sprocket 10
10	3	Tapping Screw 4x14	81	2	Hex. Socket Head Bolt M5x16
11	1	Switch Box	82	1	Metal Cover (B)
12	1	Switch Box Cover	83	1	Nut M14
13	2	Tapping Screw 4x18	84	1	Plane Bearing 17
14	2	Tapping Screw Bind CT 4x12	85	1	Compression Spring 14
15	1	Grommet	86	1	Roller 34 - 295
16	1	Cord	87	1	Compression Spring 14
17	2	Tapping Screw 4x18	88	1	Plane Bearing 17
18	1	Strain Relief	89	1	Metal Cover (A)
19	1	Strain Relief	90	2	Hex. Socket Head Bolt M5x16
20	1	Pan Head Screw M4x12	91	1	Straight Bevel Gear 15
22	1	Hex. Socket Head Bolt M6x14	92	1	Flat Washer 10
23	1	Flat Washer 6	93	1	Shaft Retainer
24	1	Sprocket 10	94	2	Tapping Screw CT 4x25
25	4	Tapping Screw 5x75	95	1	Shaft 10
26	1	Gear Housing Cover Complete	96	1	Shaft Retainer
27	1	Flat Washer 6	97	2	Tapping Screw CT 4x25
28	1	Gear Complete 8 - 50	98	1	Flat Washer 10
29	1	Flat Washer 6	99	1	Straight Bevel Gear 15
30	1	Flat Washer 8	100	1	Spring Pin 4 - 28
31	1	Gear Complete 8 - 46	101	1	Lock Plate
32	1	Flat Washer 8	102	1	Tension Spring 5
33	1	Woodruff Key 4	103	1	Pan Head Screw M5
34	1	Flat Washer 14	104	1	Belt Cover
35	1	Drive Shaft	105	2	Tapping Screw CT 4x25
36	1	Helical Gear 47	106	2	Pan Head Screw M5x12
37	1	Flat Washer 12	107	1	Nut M14L
38	1	Gear Housing Complete	108	2	Compression Spring 15
39	1	Poly V Belt 8 - 341	109	1	O Ring 4
40	1	V-Pulley 8 - 23.5L	110	1	Pan Head Screw M5x20
41	1	Motor Housing Complete	111	1	Flat Washer 5
42	1	FIELD ASSEMBLY	112	1	Sleeve 6
43	1	Ball Bearing 6200DDW	113	1	Torsion Spring 9
44	1	Insulation Washer	114	1	Pointer
45	1	ARMATURE ASSEMBLY (With Item 43, 44 & 47)	115	1	Tapping Screw Bind CT 4x12
46	1	Baffle Plate	116	1	Gauge
47	1	Ball Bearing 6200DDW	117	4	Tapping Screw CT 4x25
48	2	Tapping Screw 5x75	118	2	Tapping Screw 5x30
49	2	Hex. Socket Head Bolt M6x14	119	1	Screw M6x135
50	1	Flat Washer 6	120	1	Half nut
51	1	Sprocket 10	121	1	Compression Spring 11
52	1	Metal Cover (B)	122	1	Pin 8
53	1	Nut M14	123	1	Knob 45
54	1	Compression Spring 14	124	1	Handle 160
55	1	Makita Mark	125	1	Stop Ring E - 6
56	1	Plane Bearing 17	126	1	Spring Pin 4 - 28
57	2	Hex. Socket Head Bolt M5x16	127	1	Hex. Socket Head Bolt M5x16
58	2	Brush Holder Cap	128	1	Joint
59	2	Carbon Brush	129	1	Gauge
60	1	Roller 34 - 295	130	1	Scale Label
61	1	Compression Spring 14	131	4	Hex. Socket Head Bolt M10x25
62	1	Metal Cover (A)	132	1	Top Cover Complete
63	2	Hex. Socket Head Bolt M5x16	133	1	Tool Box Holder
64	1	Plane Bearing 17	134	1	Side Cover Complete
65	1	Hex. Socket Head Bolt M6x12	135	1	Tool Box Holder
66	1	V-Pulley 8 - 54	136	2	Screw M5x10
67	3	Pan Head Screw M4x16	137	2	Tapping Screw 4x18
68	1	Bearing Box	138	2	Tapping Screw 4x18
69	2	Ball Bearing 6202LLB	139	1	Table Plate
70	1	Key 4	140	4	Tapping Screw Bind CT 4x12
71	1	Drum	141	2	Guide Plate

ITEM NO.	NO. USED	DESCRIPTION	ITEM NO.	NO. USED	DESCRIPTION
<u>MACHINE</u>			<u>MACHINE</u>		
142	2	Pan Head Screw M4x16	166	1	Straight Bevel Gear 15
143	1	Side Cover	167	1	Supporter
144	2	Side Beam	168	1	Steel Ball 5.6
145	4	Hex. Socket Head Bolt M6x16	169	1	Hex. Nut M8
146	4	Binding Head Screw M8	170	2	Hex. Socket Head Bolt M5x20
147	4	Wave Washer 10	171	1	Hex. Socket Head Bolt 8x16
148	8	Pan Head screw M4x8	172	1	Gear Cover
149	4	Arm	173	1	Tapping Screw Bind CT 4x12
150	2	Sub Table Plate	174	1	Ball Bearing 6000DDW
151	4	Hex. Socket Head Bolt 10x25	175	1	Bearing Retainer 33
152	4	Hex. Socket Head Bolt 5x12	176	3	Tapping Screw Bind CT 4x12
153	1	Screw L	177	1	Pin 4
154	4	Column 20	178	1	Hex. Nut M10-17
155	1	Table	179	1	Straight Bevel Gear 15
156	1	Screw R	180	1	Supporter
157	1	Chip Cover	181	1	Steel Ball 5.6
158	2	Pan Head Screw M4x16	182	1	Hex. Nut M8
159	2	Leaf Spring	183	2	Hex. Socket Head Bolt 5x20
160	2	Tapping Screw Bind CT 4x12	184	1	Hex. Socket Head Bolt 8x16
161	1	Ball Bearing 6000DDW	185	1	Gear Cover
162	1	Bearing Retainer 33	186	1	Tapping Screw Bind CT 4x12
163	3	Tapping Screw Bind CT 4x12	187	1	Main Frame Complete
164	1	Pin 4	188	1	Fan 80
165	1	Hex. Nut M10-17	189	1	Flat Washer 4

Note: The switch and other part specifications may differ from country to country.

## MAKITA LIMITED ONE YEAR WARRANTY

### Warranty Policy

Every Makita tool is thoroughly inspected and tested before leaving the factory. It is warranted to be free of defects from workmanship and materials for the period of ONE YEAR from the date of original purchase. Should any trouble develop during this one-year period, return the COMPLETE tool, freight prepaid, to one of Makita's Factory or Authorized Service Centers. If inspection shows the trouble is caused by defective workmanship or material, Makita will repair (or at our option, replace) without charge.

This Warranty does not apply where:

- repairs have been made or attempted by others;
- repairs are required because of normal wear and tear;
- The tool has been abused, misused or improperly maintained;
- alterations have been made to the tool.

IN NO EVENT SHALL MAKITA BE LIABLE FOR ANY INDIRECT, INCIDENTAL OR CONSEQUENTIAL DAMAGES FROM THE SALE OR USE OF THE PRODUCT. THIS DISCLAIMER APPLIES BOTH DURING AND AFTER THE TERM OF THIS WARRANTY.

MAKITA DISCLAIMS LIABILITY FOR ANY IMPLIED WARRANTIES, INCLUDING IMPLIED WARRANTIES OF "MERCHANTABILITY" AND "FITNESS FOR A SPECIFIC PURPOSE," AFTER THE ONE-YEAR TERM OF THIS WARRANTY.

This Warranty gives you specific legal rights, and you may also have other rights which vary from state to state. Some states do not allow the exclusion or limitation of incidental or consequential damages, so the above limitation or exclusion may not apply to you. Some states do not allow limitation on how long an implied warranty lasts, so the above limitation may not apply to you.

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