

OPERATION MANUAL

REX SABER SAW 300

Ref.No. 198710

Important

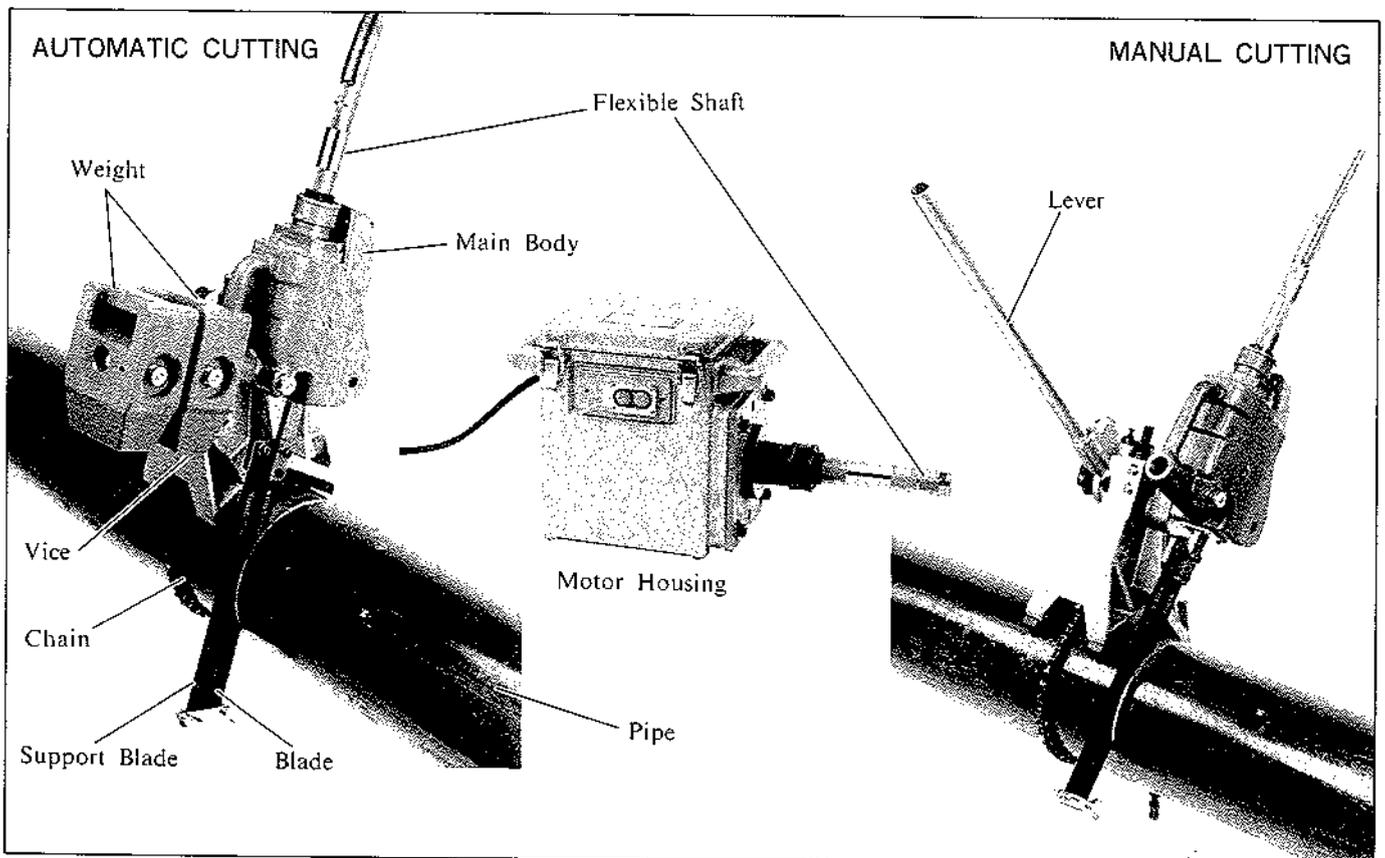
For your own safety, best performance and a long tool life, read this Operation Manual carefully and completely before assembling and operating this unit.

Study the operation, application and potential hazards peculiar to this unit.

CONTENTS

Identification of Main Parts.....	1
Specifications and Standard Accessories.....	2
Method of Use.....	3
1. Attachment of Blade	
2. Attachment of Vice	
3. Attachment of Main Body	
4. Attachment of Flexible Shaft	
5. Cutting	
6. Disassembly	
Prevention of Reversed Rotation	16
If the Motor Suddenly Locks	17
Special Use, Compatibility of Pipe and Blades, Special Accessories.....	18
After Use	19

REX SABER SAW 300-Identification of Main Parts



Specifications and Standard Accessories

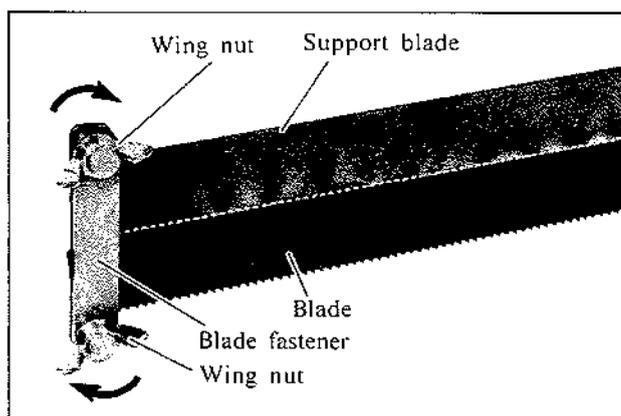
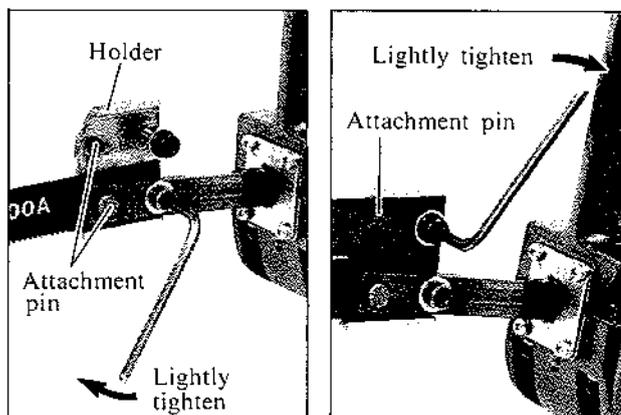
■ Specifications

Cutting Capacity	2½ ~ 12"	
Voltage	220V (50/60Hz)	
Motor	Single phase 750W Condenser Motor	
Stroke	60mm	
Stroke Speed	350 s.p.m. (50Hz) 420 s.p.m. (60Hz)	
Weight	Main Body	9.5Kg
	Vice	12.0Kg
	Motor Housing	23.0Kg
	Flexible Shaft	3.5m 7.5Kg

■ Standard Accessories

Contents	Carrying Case	1
	Main Body	1
	Vice	1
	Motor Housing	1
	Weight	2×(8kg)
	Flexible Shaft	1 (3.5m)
	Lever	1
	Blades	For 150A (335mm) one each
	Support Blades	For 200A (395mm) one each
		For 300A (505mm) one each
Contents	Tool Box	1
	Wedge	2
	Ratchet Wrench	1 (27mm)
	Spanner	1 (6mm)
	Water Applicator	1
	Blade Fastener	1set
	Weight Shaft	1

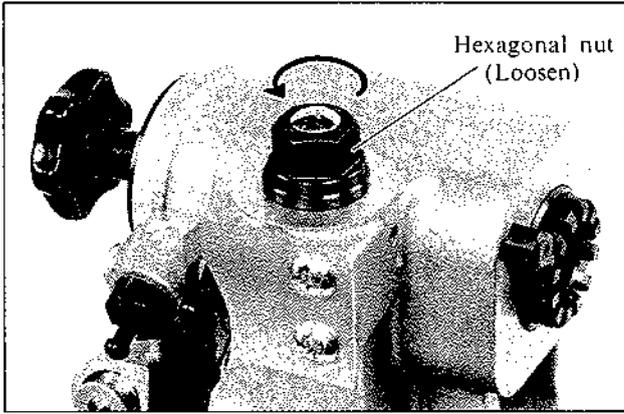
Method of Use



■ Method of Use

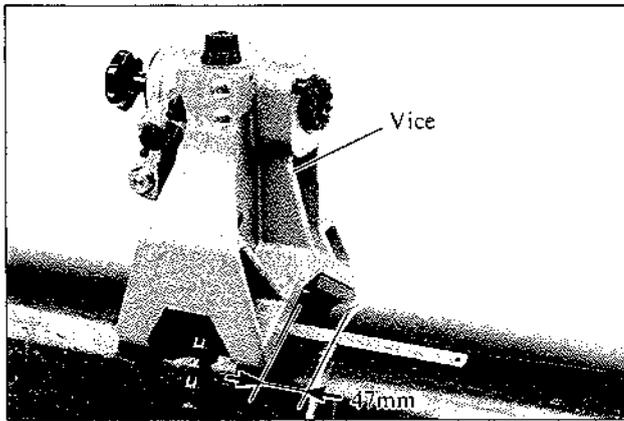
1. Attaching the Blade

- (1) With the teeth facing down, attach the blade to the lower part of the blade holders and slightly tighten the nut.
- (2) Similarly, attach the support blade (or a spare blade) to the upper part of the blade holder. Again, tighten the nut slightly.
- (3) When the support blade and the blade are perfectly parallel tighten the two wing nuts securely.
- (4) Attach the fastener to the other end of the blade and support blade and tighten the wing nuts.



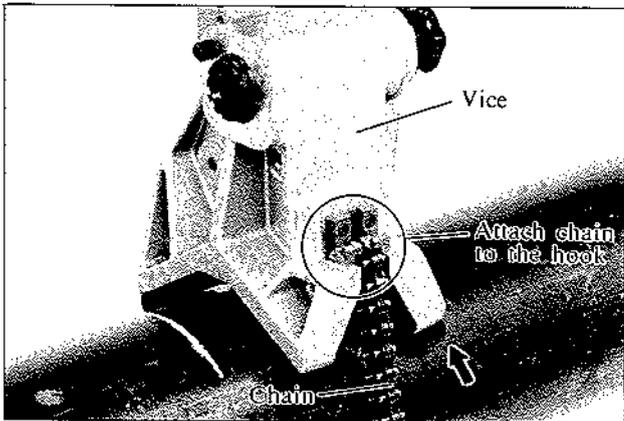
2. Attaching the Vice

- (1) Loosen the hexagonal nut on the top of the vice by turning it anticlockwise.

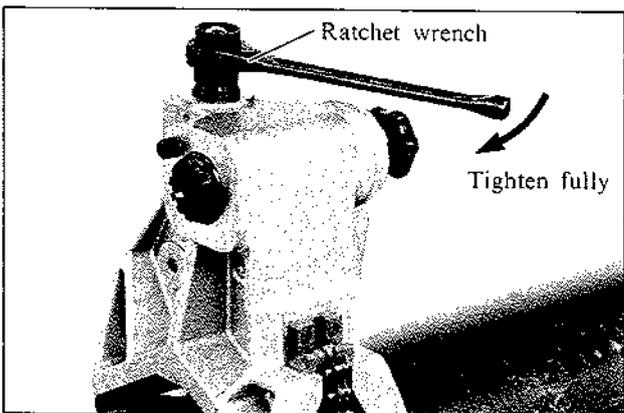


- (2) Place the vice 47mm from the cutting position on the pipe. Ensure the vice is well-balanced on the pipe.

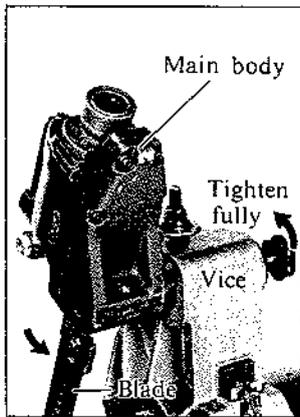
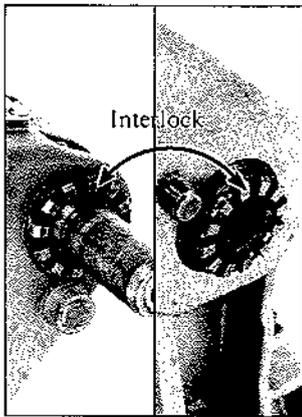
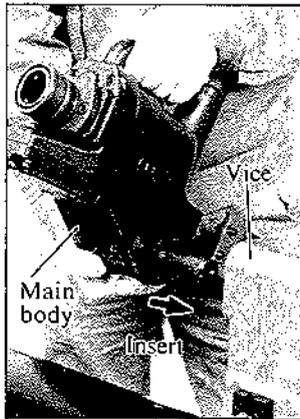
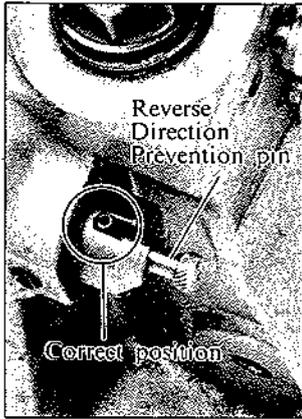
4



- (3) Wrap the chain around the pipe and attach the closest chain pin to the hook on the other side of the vice.



- (4) Ensure the vice is firmly positioned on the pipe and then tighten the chain by turning the hexagonal screw with the ratchet wrench.



3. Attaching the Main Body

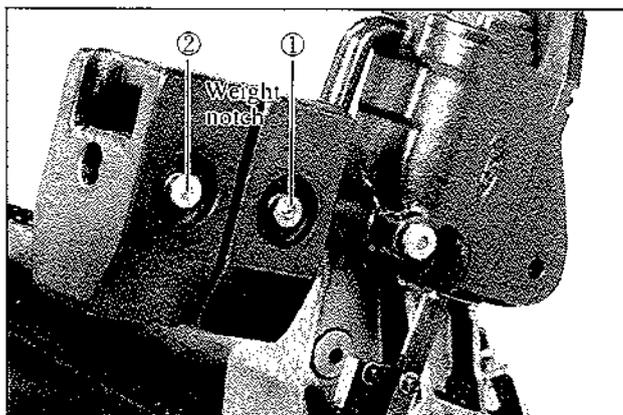
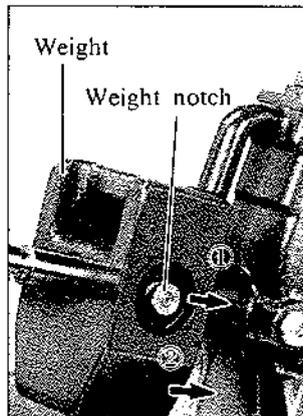
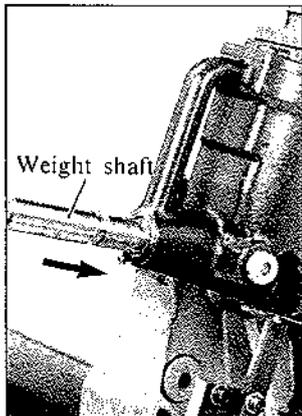
- (1) Check that the reverse direction prevention pin is in the correct position.

- (2) Attach the main body to the vice by inserting the shaft into the hole on the side of the vice interlocking the faces of the two parts.

Caution:

Always attach the blade prior to mounting the main body on the vice.

- (3) Turn the vice set-knob clockwise to tighten the main body to the vice. Lower the blade gently onto the pipe.

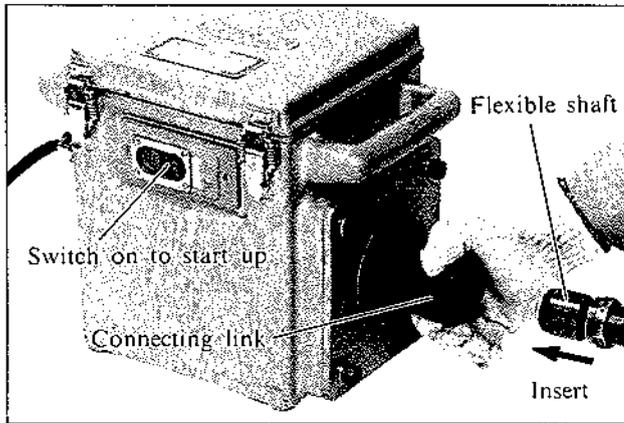
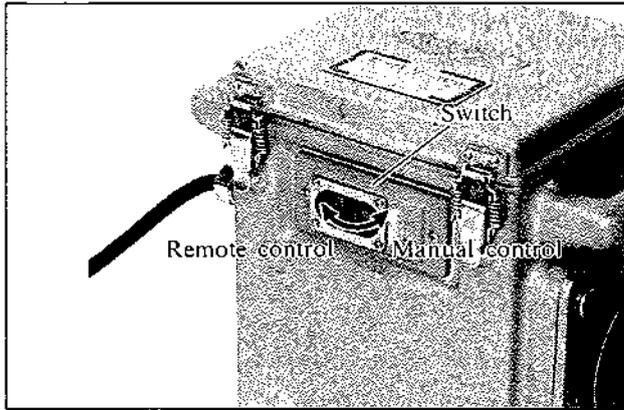


- (4) Insert the weight shaft fully into the main body. Checking the notch is correctly engaged.

- (5) Place the two weights on the weight shaft. The first weight should be pushed in fully to engage the inner notch and the second weight on the outer notch.

Caution:

The weights are heavy. Ensure they are attached properly so as not to fall off.



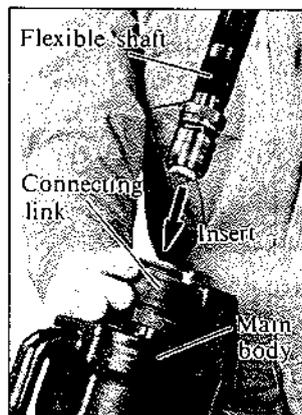
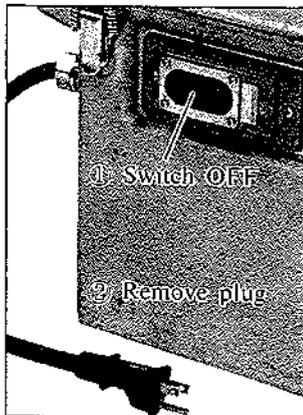
4. Attachment of the Flexible Shaft

(1) With the motor case standing securely on ground level close to the Saber Saw 300, insert the plug into the mains.

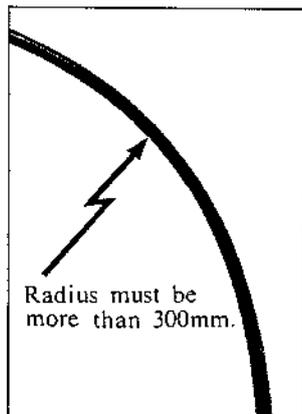
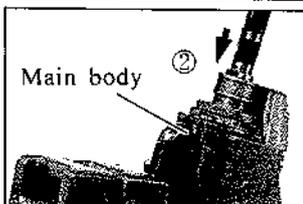
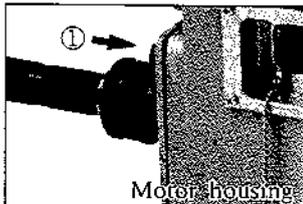
(2) Depress the connecting link, turn the switch ON and insert the flexible shaft as the motor starts up.

Note:

Insertion of the flexible shaft is possible without starting up the motor but the above method is considerably easier.

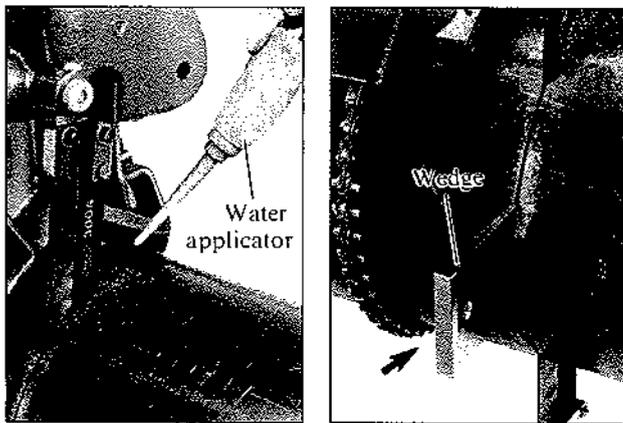
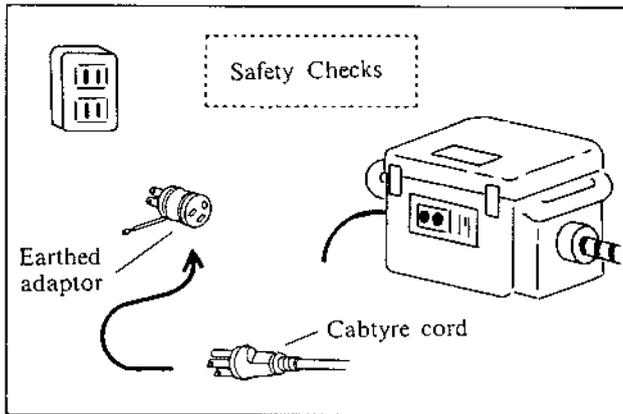


(3) Remove the plug from the mains. Depress the connecting link on the main body of the saw, and insert the flexible shaft turning lightly.



Caution:

1. Always connect the flexible shaft to the motor case before connecting to the main body of the saw.
2. Ensure the curvature of the shaft is kept to a minimum. It should not form an arc with a radius of less than 300mm.



5. Pipe Cutting

● Automatic Pipe Cutting

(1) Insert the plug, checking everything is set up for safe operation, and switch ON.

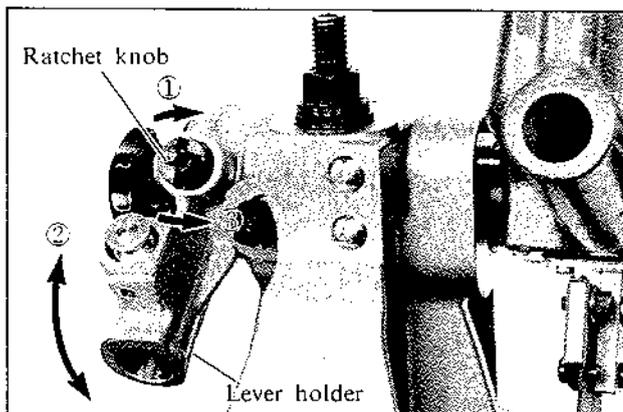
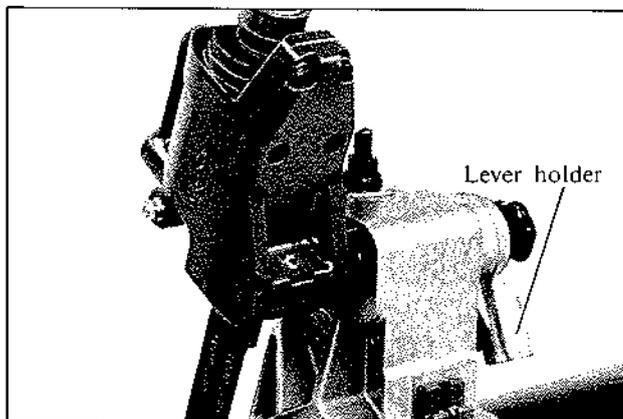
(2) Once the blades are in motion, cutting can proceed automatically with the force of the weights.

Caution:

When working on gas pipes, occasionally apply water to the blades. (However, avoid excessive amounts of water.)

(3) When about half-way through, gently insert the wedge. This decreases the pressure from the pipe on the blades and allows for smooth cutting.

10



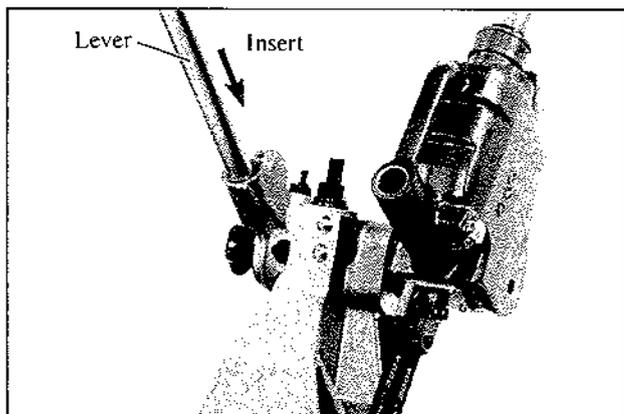
● Manual Pipe Cutting

Manual operation is advised if:-

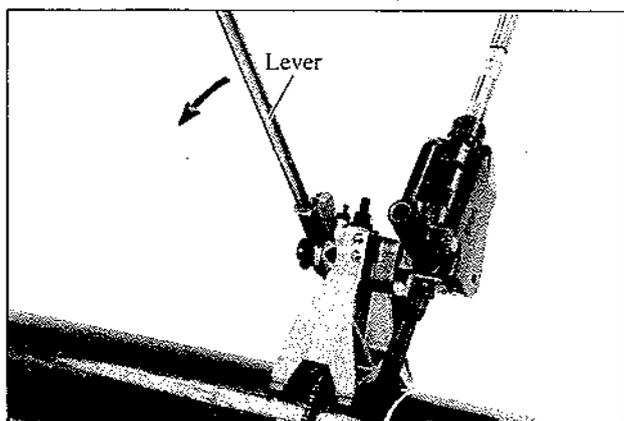
- Adjacent pipes prevent assembling the saw for automatic cutting.
- The vice cannot be mounted vertically.
- Insufficient space prevents the use of the weights.

(1) Pull out the ratchet knob on the lever holder and turn the knob clockwise to free the ratchet.

(2) Move the lever holder into a position where it is easy to insert and move the lever itself. Then, pull out the ratchet knob again and turn anticlockwise.

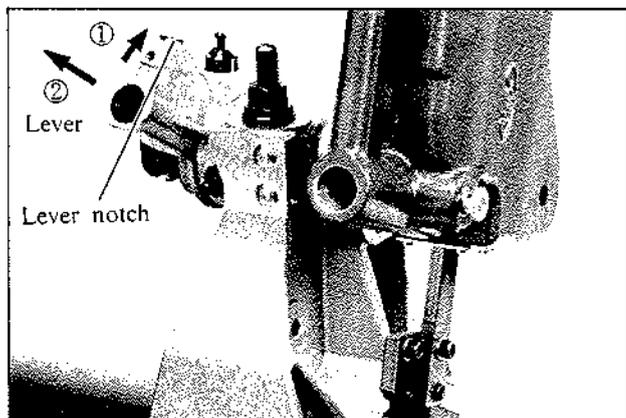


- (3) Insert the lever until it engages the notch in the lever holder.
- (4) When everything is set up for safe operation, switch on the motor.

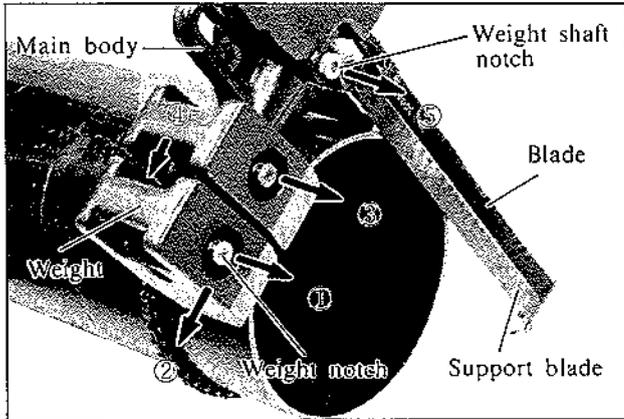
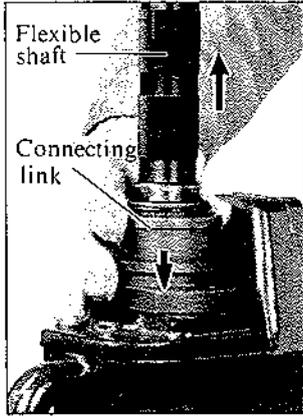
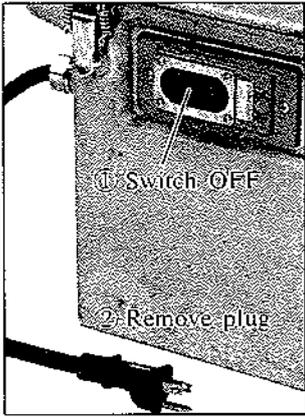


- (5) Use the lever to lower the blade on to the pipe and start cutting. Take care not to apply excessive force or the motor will be overloaded and stop functioning or result in an imperfect cut.

12



- (6) When finished, pull out the lever notch and remove the lever.

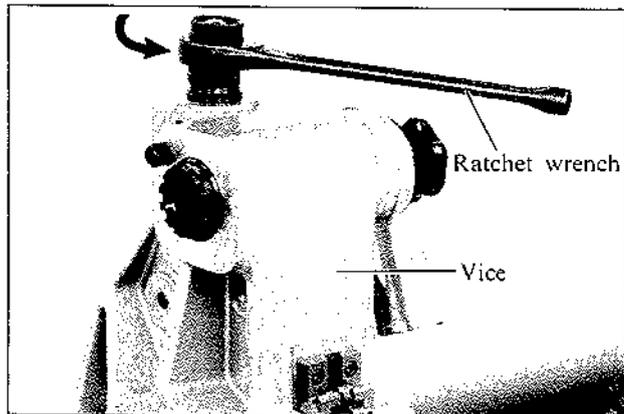
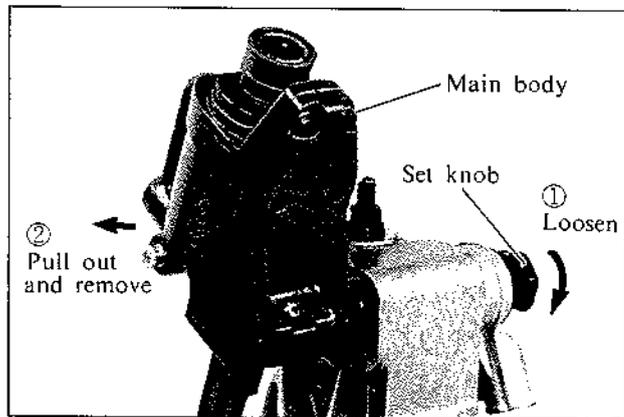


6. Disassembly

- (1) After cutting the pipe, switch the motor OFF and remove the plug from the mains.
- (2) Depress the connecting link on the main body and release the flexible shaft.

- (3) Pull out the weight notches and remove the weights from the shaft.

14



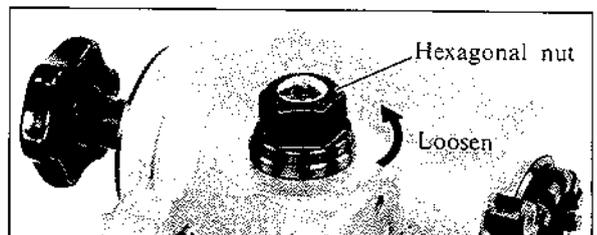
- (4) Loosen the vice knob by turning to the left and remove the main body from the vice:
If the main body is difficult to remove, pull out the Reverse Direction Prevention (RDP) knob and turn it to the right. The main body can then be easily removed.

Note:

If the RDP knob was used to remove the main body, ensure it is put back in its normal position.

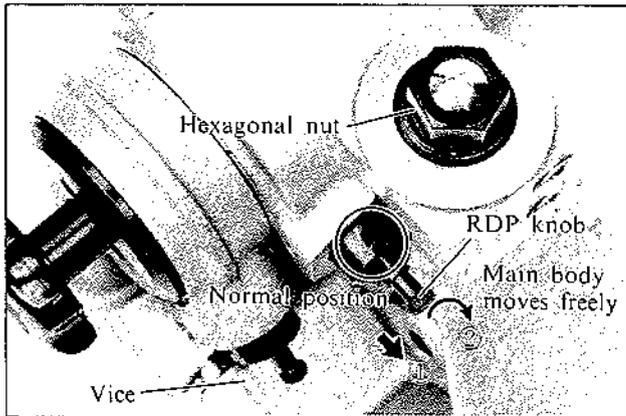


- (5) Fully loosen the hexagonal nut on the vice using the wrench supplied. Release the chain from the hook. Remove the vice from the pipe.



15

Prevention of Reversed Rotation

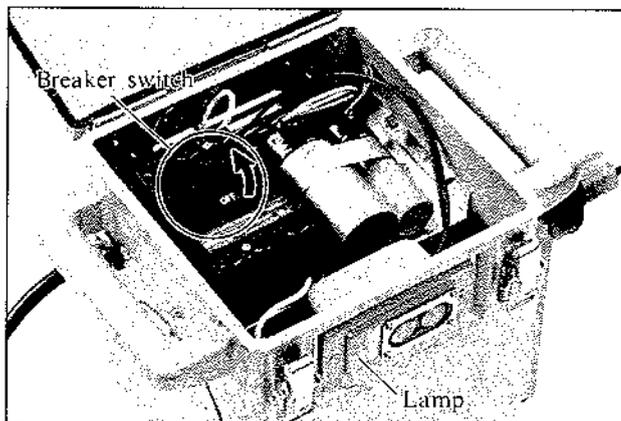


■ Reverse Direction Prevention (RDP)

For safety purposes, the main body of the Saber Saw 300 moves only in the cutting direction. If for some reason, during or after cutting, it is necessary to move the main body in the opposite direction, pull out the RDP knob, as described earlier, and turn to the right. The main body can then be moved in either direction.

16

If the Motor Suddenly Locks



■ If the motor suddenly locks, first pull out the plug and check to see if the mains breaker has blown.

Replace the plug in the mains.

Check to see if the lamp on the motor case is on or not.

If not, then open the lid of the motor case and turn the breaker switch on.

If it is on, it means there is an electrical fault elsewhere.

Consult your local dealer, REX agent or sales office.

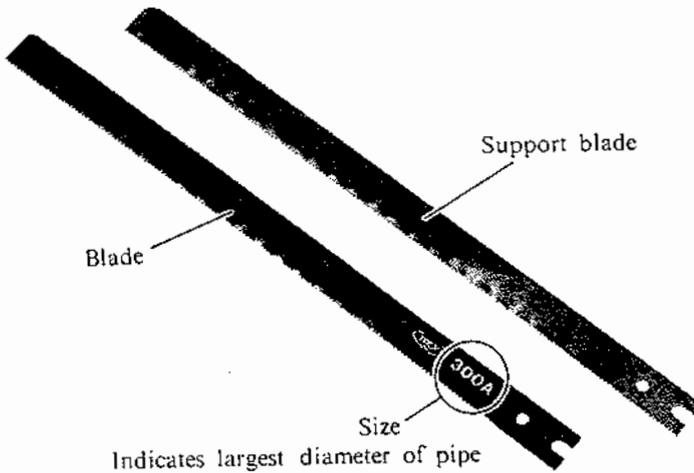
Special Use, Compatibility of Pipe and Blades, Special Accessories

■ Special Use

With 350A pipes use the appropriate 350A blade and support blade.

■ Pipe and Blade Compatibility Chart

Description	Pipes	Blades
Cast iron	Cast iron Ductile iron	(HSS) 150A
		200A
Steel	Steel, Polyethelene coated pipes Vinyl coated pipes	250A
		300A
Other	Vinyl	
Cast iron	Mortar lining of ductile iron pipe	(Brid saw blade)
		150A
		200A
		250A
		300A 350A

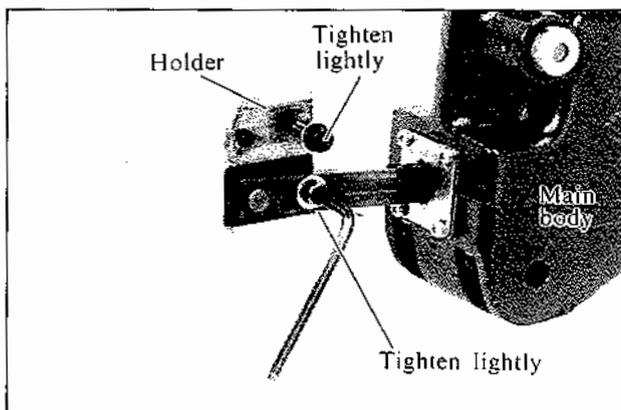
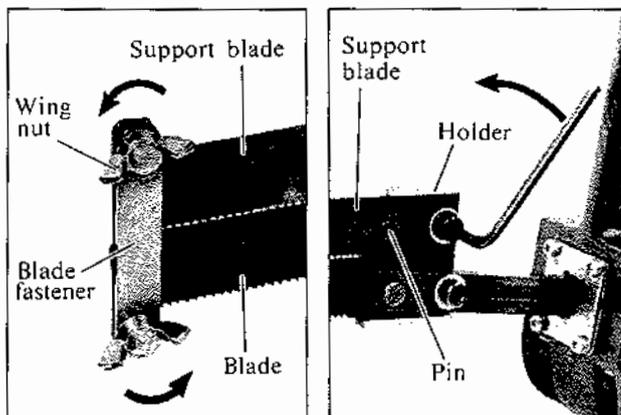


■ Special Accessories

- Flexible shaft 5m
- Manual switch (Available soon)

18

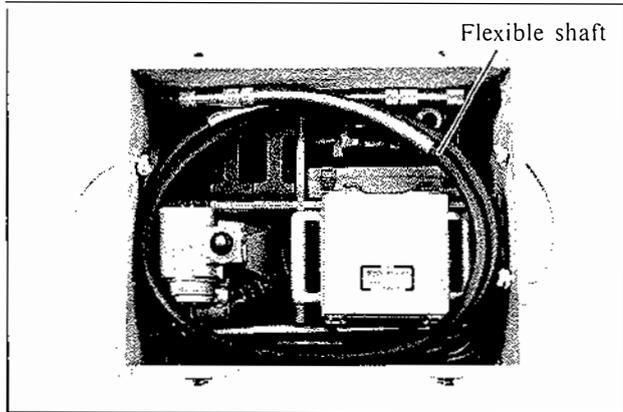
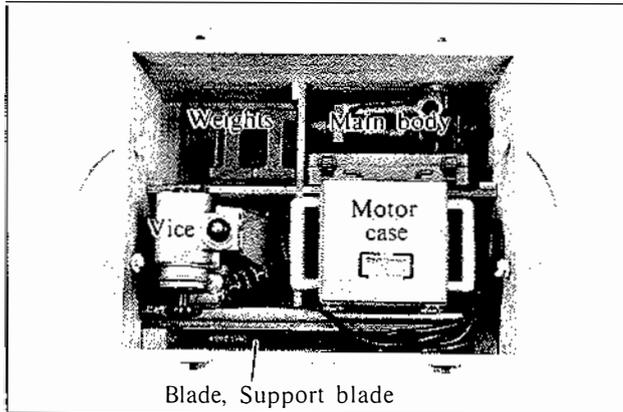
After Use



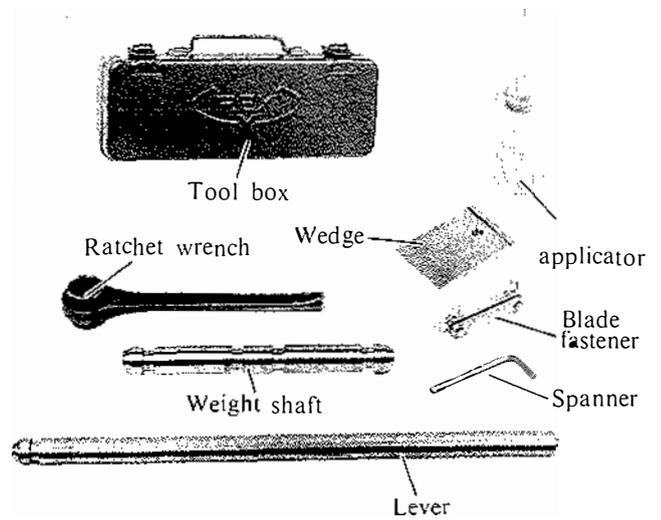
■ After Use

- (1) Loosen the wing nuts on the blade fastener and remove the fastener from the blade.
- (2) Loosen the hexagonal bolts on the holder, and remove the blade and guide plate by lifting them off the pins.

- (3) Lightly retighten the hexagonal bolts.



(4) Remove all dirt from the blade, main body, weights, vice and motor case before storing in their allotted place as shown in the photo.



Note:

Store the flexible shaft so that the metal coil parts run lengthwise in the box as shown in the photo.

REX

REX INDUSTRIES CO., LTD.

Overseas Sales Dept. & Factory :

1-9-3, Hishiyahigashi, Higashi Osaka 578-0948, Japan

Tel.: +81 - (0)72 - 961 - 9820 Fax.: +81 - (0)72 - 961 - 9878

URL <https://www.rexind.co.jp>

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