



MODEL JS3200

INSTRUCTION MANUAL



Specifications

Max. cuttin	g capacities	Min	AMPS	Strokes	Overall	Net	Power
Mild steel	Stainless	radius	(115 V)	minute	length	weight	cord
3.2 mm (1/8'')	2.5 mm (3/32'')	50 mm (2′′)	6 A	1,600	204 mm (8″)	3.5 kg (7.7 lbs)	2.5 m (8.2 ft.)

* Manufacturer reserves the right to change specifications of parts and accessories without notice.

* Note : Specifications of parts and accessories may differ from country to country.

IMPORTANT SAFETY INSTRUCTIONS

WARNING: When using electric tools, basic safety precautions should always be followed to reduce the risk of fire, electric shock, and personal injury, including the following:

READ ALL INSTRUCTIONS.

- 1. KEEP WORK AREA CLEAN. Cluttered areas and benches invite injuries.
- CONSIDER WORK AREA ENVIRONMENT. Don't use power tools in damp or wet locations. Keep work area well lit. Don't expose power tools to rain. Don't use tool in presence of flammable liquids or gases.
- 3. KEEP CHILDREN AWAY. All visitors should be kept away from work area. Don't let visitors contact tool or extension cord.
- 4. STORE IDLE TOOLS. When not in use, tools should be stored in dry, and high or locked-up place out of reach of children.
- 5. DON'T FORCE TOOL. It will do the job better and safer at the rate for which it was intended.
- 6. USE RIGHT TOOL. Don't force small tool or attachment to do the job of a heavyduty tool. Don't use tool for purpose not intended.
- 7. DRESS PROPERLY. Don't wear loose clothing or jewelry. They can be caught in moving parts. Rubber gloves and non-skid footwear are recommended when working outdoors. Wear protective hair covering to contain long hair.
- 8. USE SAFETY GLASSES. Also use face or dust mask if cutting operation is dusty.
- 9. DON'T ABUSE CORD. Never carry tool by cord or yank it to disconnect from receptacle. Keep cord from heat, oil, and sharp edges.
- 10. SECURE WORK. Use clamps or a vise to hold work. It's safer than using your hand and it frees both hands to operate tool.
- 11. DON'T OVERREACH. Keep proper footing and balance at all times.
- 12. MAINTAIN TOOLS WITH CARE. Keep tools sharp and clean for better and safer performance. Follow instructions for lubricating and changing accessories. Inspect tool cords periodically and if damaged, have repaired by authorized service facility. Keep handles dry, clean, and free from oil and grease.
- 13. DISCONNECT TOOLS. When not in use, before servicing, and when changing accessories, such as blades, bits, cutters.
- 14. REMOVE ADJUSTING KEYS AND WRENCHES. Form habit of checking to see that keys and adjusting wrenches are removed from tool before turning it on.
- 15. AVOID UNINTENTIONAL STARTING. Don't carry plugged-in tool with finger on switch. Be sure switch is OFF when plugging in.
- 16. OUTDOOR USE EXTENSION CORDS. When tool is used outdoors, use only extension cords intended for use outdoors and so marked.
- 17. STAY ALERT. Watch what you are doing, use common sense. Don't operate tool when you are tired.
- 18. 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 other conditions that may affect its operation. A guard or other part that is damaged should be properly repaired or

2

replaced by an authorized service center unless otherwise indicated elsewhere in this instruction manual. Have defective switches replaced by authorized service center. Don't use tool if switch does not turn it on and off.

- 19. GUARD AGAINST ELECTRIC SHOCK. Prevent body contact with grounded surfaces. For example; pipes, radiators, ranges, refrigerator enclosures.
- 20. REPLACEMENT PARTS. When servicing, use only identical replacement parts.

SAVE THESE INSTRUCTIONS.

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.



Shear & Standard Equipment

How to use

Shear blade inspection

• Be sure to check for blade wear before operation. Use of a worn blade results in a ragged shearing surface and poor shearing performance, so replace blades beforehand.

Blade replacement

- Use the hex wrench provided to remove the hex socket head bolts securing the upper and lower blades.
- Rotate both shear blades 90° (above and below) to position to unworn portion of blades. When all four portions are worn, of course, the blades should be replaced with new ones.



• Tighten the hex socket head bolt holding the upper blade using the hex wrench provided. Press up on the shear blade while doing so.



• After securing the shear blades, be sure that there is no gap left between the inclined surfaces of the shear blade and the blade holder.



• Then secure the lower shear blade like the upper blade, while adjusting the space in between them.

(Service life of shear blades)

The service life of a shear blades varies in terms of the materials cut, the tensile strength and the fixed blade clearance. Roughly speaking, a blade can cut about 500 m ((1,500 ft.) of 3.2 mm (1/8'') mild steel; One blade set (upper and lower) is good for cutting 2,000 m (6,560 ft.).



Adjusting blade clearance

• When performing this adjustment, the upper blade should be in the lowered position. First, loosen slightly the hex socket head bolt securing the lower shear blade, then insert the thickness gauge set for the desired clearance. The cutting thickness is indicated on the thickness gauge so the combinations shown in the accompanying table should be used. Work the clearance adjust hex socket head bolt on the yoke until the clearance is such that the thickness gauge moves only with some difficulty. Then carefully secure the hex socket head bolt and hex nut holding the lower blade.



Thickness gauge combinations (Unit : mm)

Material thickness	2.3 (3/32'')	2.5 (3/32")	3.2 (1/8")
Thickness gauge combinations	1.0 + 1.5	1.0 + 1.5	1.5 + 2.0

Switch operation

• To start the tool, simply pull the trigger. Release the trigger to stop. For continuous operation without having to keep your finger on the trigger, just pull the trigger and then push in the lock button with your thumb. To stop the tool from the lock position, simply pull the trigger again and release it.



Permissible shearing thickness

• The groove on the yoke serves as a thickness gauge for shearing mild or stainless steel plate. If the material fits within the groove, it is shearable.



• The thickness of materials to be sheared depends upon the type (strength) of the material. The maximum shearing thickness is indicated in the table on the right in terms of various materials. Attempting to shear materials thicker than indicated will result in tool breakdown and/or possible injury. Keep within the thicknesses shown at right.

Materials	Tensile strength (kg/mm ²)	Max. cutting thickness (mm)
Mild steel (A)	40	3.2 (1/8'')
Hard steel (B)	60	2.5 (3/32'')
Stainless steel	60	2.5 (3/32'')
Aluminum plate	25	4.0 (5/32'')

• See listing below for standards in various countries corresponding to (A) and (B) above.

	ISO	ASTM	AISI	BS	DIN	NF	JIS
(A)	3574-76	A109-72	1012	1449 Part 1-72	1624-77	A36-401-80	SPC
(B)	R683	A576	1055	070M55	CK55	XC55	\$55C

Holding material

• To secure the material when cutting thick stock so that it will not move, hold it carefully in place on a bench or work stand.



Shearing method

• For smooth cuts, tip the tool slightly backward while advancing it.



Max. cutting width



		(Unit : mm)
	Mild stort	Thickness, 3.2 (1/8'') : 90 (3-1/2'')
Max. sutting vidth A)	WIND Steen	Thickness, 2.3 (3/32") : Unlimited
	Stainless steel	Thickness, 2.5 (3/32'') : 70 (2-3/4'')
		Thickness, 2.0 (5/64") : Unlimited

Min. cutting radius: 50 mm (when shearing mild steel, 2.3 mm (3/32").

7

Maintenance

Replacing carbon brushes

 Inspect the carbon brushes from time to time. When they are worn down to about 6 mm (1/4") in length, they will cause sparking that can lead to a failure.



• To replace the carbon brushes, unscrew the brush holder cap with a (-) screwdriver.



• Remove the carbon brushes and insert new ones. Always replace both brushes at the same time.



Optional accessories

CAUTION: The accessories specified in this manual are recommended for use with your Makita Shear. The use of any other accessory might be hazardous.

Blades

(two per set of brister package) Part No. 792287-5



Hex wrench
Part No. 783202-0

• Thickness gauge

Part No. 762007-1



• Steel carrying case Part No. 181797-1



•

SHEAR Model JS3200



10

١

NO.	NO. USED	DESCRIPTION	NO.	NO. USED	DESCRIPTION
MAC	HINE		MAC	HINE	
1	4	P. H. Screw M5x45 (With Washer)	26	1	S. Washer 5
2	1	Gear Housing	27	1	H.S.H. Bolt M5x14
	· ·	(With Plane Bearing 8 & Needle Bearing 1212)	28	1	Yoke
3	1	F. Washer 12	29	1	H. Nut M5-8
4	1	Rod	30	1	H. S. H. Bolt M5x20
5	1	Needle Bearing 1816	31	1	S. Washer 5
6	1	F. Washer 18	32	1 1	H. S. H. Bolt M5x14
7	1	Crank Shaft (With Spur Gear 41 & Woodruff Key 4)	33	2	H. S. H. Bolt M8x30
8	1	F. Washer 10	34	1	FIELD ASSEMBLY (With Garter Spring × 2)
9	1	Gear Housing Cover	35	3	P. H. Screw M5x25 (With Washer)
		Needle Bearing 1012 & Rubber Pin 4)	38	1 1	Switch
10	1	Ball Bearing 608LB	39	1	Strain Relief
11	1	Fan 70	40	2	P. H. Screw M4x18 (With Washer)
12	1	ARMATURE ASSEMBLY	41	4	P. H. Screw M5x25 (With Washer)
		(Assembled Items 10 - 12, 14 & 15)	42	1	Carbon Brush Set
13	2	H. Bolt M5x60 (With Washer)	43	2	Brush Holder Cap
14	1	Insulation Washer	44	2	Rivet 0-5
15	1	Ball Bearing 608LB	45	1 1	Name Plate
16	1	Baffle Plate	46	1	Motor Housing
17	1	Cord Guard			(With Brush Holder x 2 & Rubber Pin 4)
18	1	CORD ASSEMBLY (Assembled Cord, Plug & Cord Guard)	47	1	Band
19	1	Handle Set	ACCE	SSORIES	
20	1	Gear 18 – 46	400	1 1	Shear Blade Set
21	1	F. Washer 8	401	1	H. Wrench 4
22	1	Pin 8	402	1	Thickness Gauge
23	11	S. Screw M6x14		1 1	
24	1	Metal			
25	1	Blade Holder			

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:

P + V T

- 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 CON-SEQUENTIAL 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.

Makita Corporation

3-11-8, Sumiyoshi-cho, Anjo, Aichi 446 Japan

883335A064

PRINTED IN JAPAN 1991 — 6 — N