



# JSM-6100 Belt Sander

Stock No. JSM-6100

## Specifications

Stock Number .....	JSM-6100
Belt Size (in.) .....	3/8 x 13
Noise Level (dB) .....	80
Horsepower (HP) .....	1/2
Free Speed (RPM) .....	20,000
Surface Feet per Minute (SFPM) .....	4,328
Required Air Pressure (PSI) .....	90
Average Air Consumption (CFM) .....	9
Air Inlet (in.) .....	1/4 NPT
Air Hose Inside Diameter (in.) .....	3/8
Overall Length Folded (in.) .....	8
Overall Length Open (in.) .....	12-3/4
Vibration Value (m/s <sup>2</sup> ) .....	1.3
Weight (lbs) .....	1-7/8



*The specifications in this manual were current at time of publication, but because of our policy of continuous improvement, Walter Meier (Manufacturing) Inc., reserves the right to change specifications at any time and without prior notice, without incurring obligations.*



## Safety warnings

1. Read and understand the entire contents of this manual before attempting operation.
2. Never operate a belt sander without proper eye and face protection.
3. Do not operate sander while wearing gloves, loose clothing, jewelry or anything that may get caught in a rotating belt. Long hair must be contained.
4. Wear ear protectors (plugs or muffs) during extended periods of operation.
5. Do not operate sander over 100 PSI.
6. Do not operate sander without the silencer (muffler) installed.
7. Keep hands and fingers away from sanding belt.
8. Disconnect sander from air source before making repairs, adjustments or belt changes.
9. Some dust created by power sanding, sawing, grinding, drilling and other construction activities contain chemicals known to cause cancer, birth defects or other reproductive harm. Some examples of these chemicals are:
  - Lead from lead based paint.
  - Crystalline silica from bricks, cement and other masonry products.
  - Arsenic and chromium from chemically treated lumber.Your risk of exposure varies, depending on how often you do this type of work. To reduce your exposure to these chemicals, work in a well-ventilated area and work with approved safety equipment, such as face or dust masks that are specifically designed to filter out microscopic particles.
10. Use the right tool at the correct speed and feed rate. Do not force a tool or attachment to do a job for which it was not designed. The right tool will do the job better and more safely.
11. Use recommended accessories; improper accessories may be hazardous.
12. Don't use in dangerous environment. Don't use power tools in damp or wet location, or expose them to rain. Keep work area well lighted.
13. Failure to comply with all of the above warnings may lead to serious injury.

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**Part No. M-JSM-6100**

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## Operating conditions

- Compressor must be able to deliver 9 CFM, at 70 to 100 PSI.
- Use 3/8" air hose between the compressor and the sander.
- To avoid moisture damage to the sander, use an inline filter to trap moisture and an inline oiler to keep the sander running at top efficiency. These are placed inline between the compressor and the sander. See Figure 1.

For further information, see "Air Tools – Instruction and Care" enclosed with the sander.

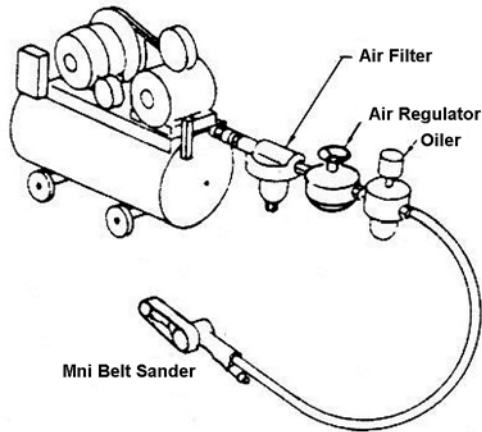


Figure 1

## Before operation

**WARNING** Disconnect sander from air hose before making any repair or adjustment. Failure to comply may cause serious injury.

1. Run compressor and blow out hose before connecting sander, to clear line of any contaminants.
2. Before connecting the hose to the sander, add 4 to 5 drops of air tool oil to the air inlet.
3. If an inline oiler is not used, add 4 to 5 drops at the air inlet for every three to four hours of operation.
4. Adjust head to desired angle and tighten hex socket cap screw (A, Figure 2), with hex wrench supplied.

**CAUTION** Always tighten hex socket cap screw firmly after adjustment, or the head could rotate causing loss of control.

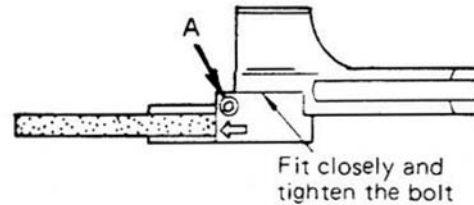


Figure 2

## Tracking adjustment

**WARNING** Tracking adjustment requires the sander to be connected to the hose and running. Use caution when hands and tools are close to a running belt. Failure to comply may cause serious injury.

Belt is tracking properly on all models when centered on the idle pulley.

1. Loosen set screw with wrench. See Figure 3.
2. With belt running, turn adjusting screw clockwise or counterclockwise until it is centered on the idler pulley.
3. Tighten set screw.

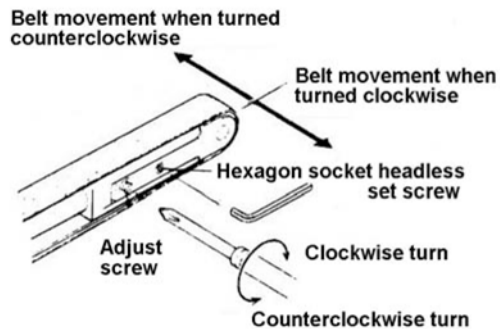


Figure 3

## Belt replacement

1. Disconnect sander from air source.
2. Loosen hex cap screw (A, Figure 2), turn head 90-degrees to the handle, and tighten screw to lock. See Figure 4.
3. Steady the sander with one hand while pushing down on the idle wheel assembly with the other until assembly locks in place. See Figure 4.
4. Remove old belt. Install new belt.
5. Press safety lever (A, Figure 4) to tension belt.



Figure 4

## Shoe Replacement

The shoe or sanding platen should be replaced when, due to wear, it no longer sits flat but is convex in shape.

1. Disconnect sander from air source.
2. Remove belt (see section titled "Belt Replacement").
3. Remove screw(s) and remove old shoe.
4. Install new shoe and fasten with screw(s). Make sure insert on shoe end engages slot on sander body.

## Idle pulley replacement

**⚠ WARNING** Disconnect sander from air hose before making any repair or adjustment. Failure to comply may cause serious injury.

Use a screwdriver to remove the screw, then slide out the shaft and remove the idle pulley. See Figure 5.

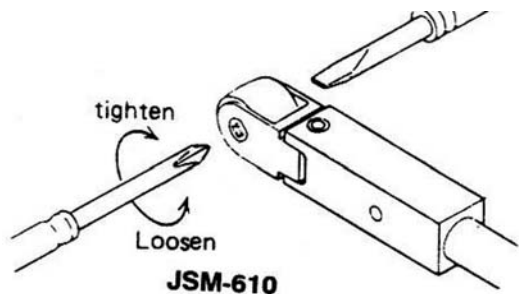


Figure 5

## Bracket replacement

1. Disconnect sander from air source.
1. Remove belt.
2. Pull out bracket in direction labeled A, Figure 6. Be careful not to lose the spring.

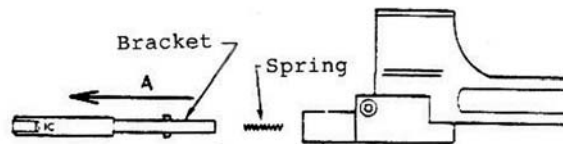


Figure 6

3. Insert new bracket by lining up pin with pin groove. See Figure 7.

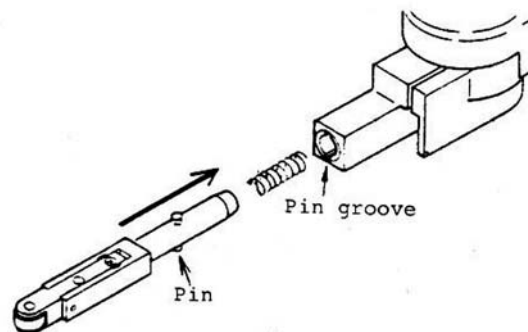


Figure 7

## Storage

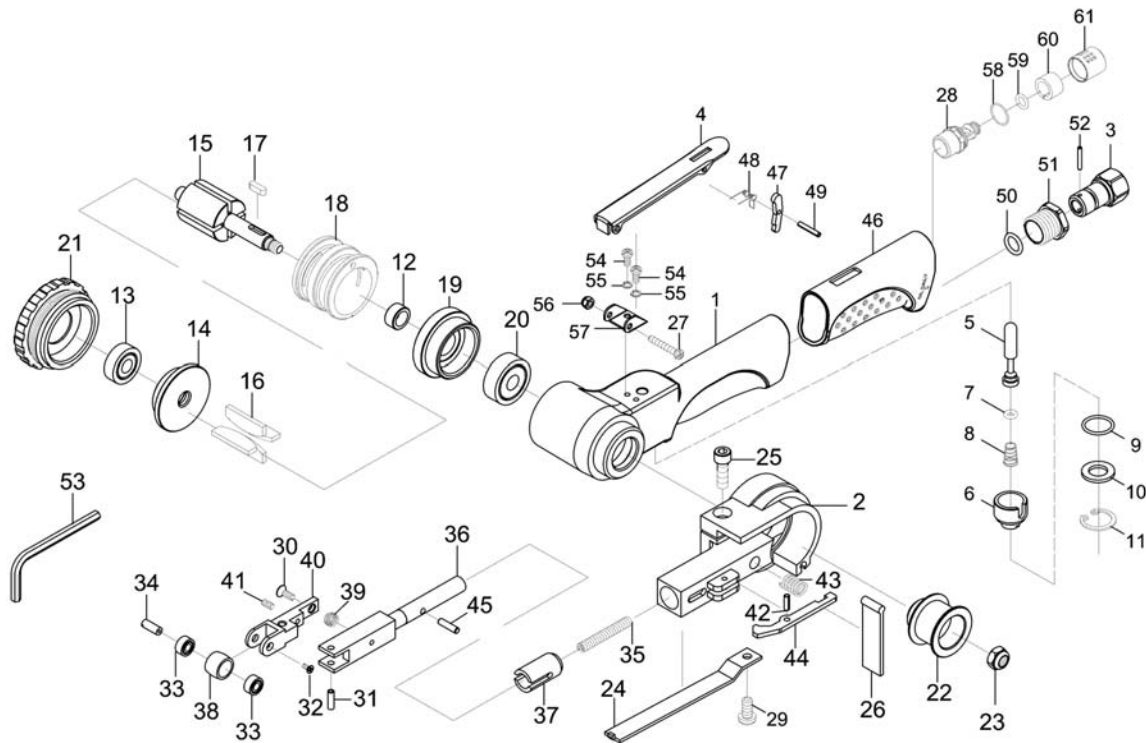
1. Avoid storing sander in locations with high humidity.
2. Before storing, apply four to five drops of air tool oil at the air inlet and run for a brief time to circulate the oil.

## Speed adjustment

All models have a brass screw used for belt speed adjustment found on the underside of the handle. This has been set at the factory. It is highly recommended that the end user **not** attempt any adjustment to the speed control.

Replacement parts are listed on the following page. To order parts or reach our service department, call 1-800-274-6848 Monday through Friday (see our website for business hours, [www.jettools.com](http://www.jettools.com)). Having the Model Number and Serial Number of your machine available when you call will allow us to serve you quickly and accurately.

## JSM-6100 Mini Belt Sander



Index	Part No.	Description	Qty.
1	61001	Motor Housing	1
2	61002	Guard	1
3	JSM6100-03	Air Inlet	1
4	JSM6100-04	Throttle Lever	1
5	JSM6100-05	Valve Stem	1
6	JSM6100-06	Valve	1
7	JSM3330-44	O-Ring (3.8x1.9)	1
8	JSM6100-08	Spring	1
9	JSM6100-09	O-Ring (14.5x1.5)	1
10	JSM6100-10	Spacer	1
11	JSM6100-11	Retaining Ring (RTW-18)	1
12	61012	Spacer	1
13	BB-607ZZ	Ball Bearing (607ZZ)	1
14	61014	Rear End Plate	1
15	61015	Rotor	1
16	61016	Rotor Vane	4
17	61017	Key (3x3x10)	1
18	61018	Cylinder	1
19	61019	Front End Plate	1
20	BB-628ZZ	Ball Bearing (628ZZ)	1
21	61021	Cap	1
22	61222	Drive Pulley	1
23	TS-1540041	Hex Nut (M6)	1
24	61024	Shoe	1
25	40343	Screw (M5x16)	1
26	61026	Dust Cover	1
27	JSM6100-27	Screw (M4x25)	1
28	JSM6100-28	Muffler	1
29	TS-2284082	Pan Head Screw (M4x8)	1
30	61035	Screw (M3x8)	1
31	61036	Spring Pin	1
32	61037	Screw	1
33	BB-684ZZ	Ball Bearing (684ZZ)	2

Index	Part No.	Description	Qty.
34	61039	Idle Pulley Shaft	1
35	61040	Spring	1
36	61041	Tension Bar	1
37	61042	Bushing	1
38	61043	Idle Pulley	1
39	61044	Spring	1
40	61045	Bracket	1
41	61046	Set Screw (M3x6)	1
42	61048	Spring Pin (2.5x8)	1
43	61049	Spring	1
44	61050	Safety Lever	1
45	JSM6100-45	Lock Pin (3x11.8)	1
46	JSM6100-46	Grip	1
47	JSM6100-47	Safety Bar	1
48	JSM6100-48	Spring	1
49	40337	Spring Pin (3x18L)	1
50	40130	O-Ring (8.8x1.7)	1
51	JSM6100-51	Screw	1
52	JSM6100-52	Pin (2x13.8)	1
53	TS-152705	Hex Wrench (4mm)	1
54	TS-2284082	Pan Head Screw (M4x8)	2
55	TS-2361041	Lock Washer (M4)	2
56	TS-1540021	Nut (M4)	1
57	JSM6100-57	Lever Support	1
58	JSM5130-35	O-Ring (14x1)	1
59	JSM6100-59	O- Ring (5.8x1.9)	1
60	JSM6100-60	Muffler	1
61	JSM6100-61	Exhaust Sleeve	1

RPK-6100 Repair Kit (contains #7,9,11,16,26)  
RBK-6100 Rebuild Kit (contains #30-34,38-41)