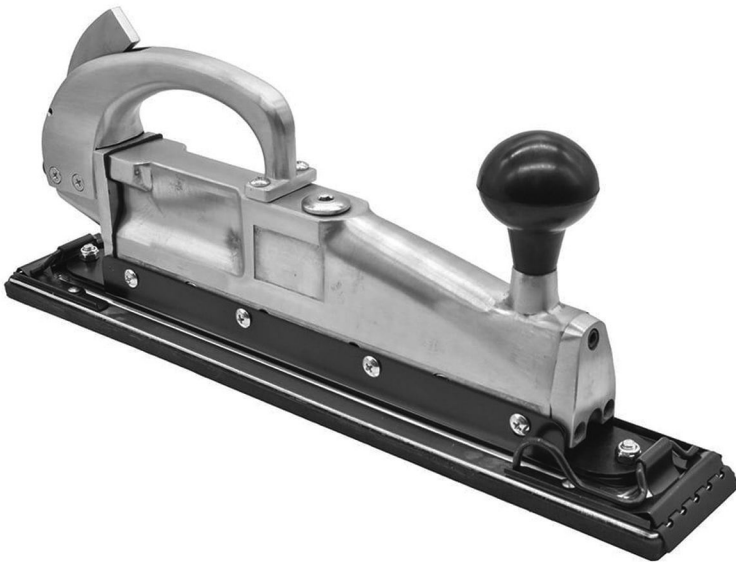




The Power of Productivity

OPERATING INSTRUCTIONS MANUAL



Inline / Straight Line Air Sander Model: AT100S

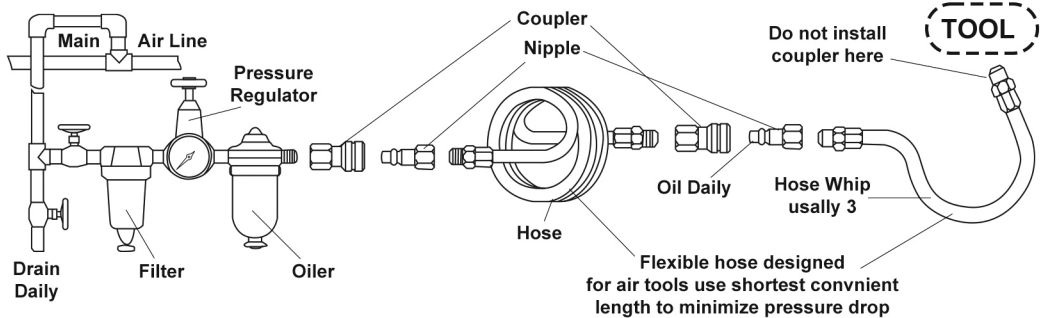


CAREFULLY READ THIS MANUAL BEFORE OPERATING TOOL!

OPERATING INSTRUCTION AND SAFETY RULES

Tools of this class operate on a wide range of air pressures. It is recommended the air pressure of this tool measure 90 PSI at the tool while running free. Higher pressure will shorten the tool's life because of faster wear.

Water in the air line will cause damage to the tool. Drain the air tank daily. Clean the air inlet filter screen on at least a weekly schedule.



SAFETY RULES

1. Do not use cloth back sanding discs. Use only paper discs and proper adhesive. Follow adhesive manufacturers' directions exactly as specified.
2. Never take any risk with your eyes. Always wear approved eye protection.
3. Use dust mask. It is advisable, when sanding for extended periods of time, to wear a protective mask. This will help prevent breathing in the fine dust created while sanding.
4. Disconnect tool before performing service, changing accessories and when not in use.
5. Always use tool at a safe distance from other people in work area.
6. Secure work with clamps or vise so both hands are free to operate tool. Keep proper footing and balance at all times.
7. Do not wear loose or ill-fitting clothing, remove watches and rings.
8. Keep tool away from body when it is running.
9. Use proper hose and fitting. Never use quick change couplings attached at tool. They add weight and could fail due to vibration. Instead, add a hose whip and connect coupling between air supply and hose whip.
10. Make sure the RPM rating of the pad corresponds with the manufacturer's recommended speed of the tool. Over speeding an accessory is just plain dangerous.

LUBRICATION AND MAINTENANCE

KEEP TOOLS CLEANED AND LUBRICATED

Lubricate the air motor daily with good grade of air motor oil. A tea spoon of oil can be poured into the tool air inlet (B) Fig.1, or into the hose at the nearest connection to the air supply. Then run the tool. A rust inhibitive oil such as "Marvel Mystery Oil", available from auto supply stores, etc., is acceptable for the air motor.

SPECIFICATIONS

- **Paper Size:** 2-3/4" x 17-1/2" (70mm x 445mm)
- **Stroke Length:** 1" (25mm)
- **Net Weight:** 6-1/4 Lb (2.8 Kg)
- **Strokes Per Min:** 3000
- **Avg Air Cons (SCFM):** 5
- **Recommended Air Pressure:** 90 PSI

SAFETY RULES

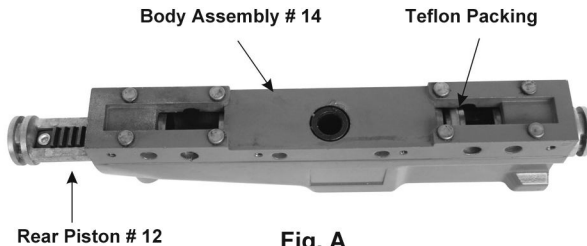
1. Do not use cloth back sanding discs. Use only paper discs.
2. Never take any risks with your eyes. Always wear approved eye protection.
3. Use dust mask. It is advisable, when sanding for extended periods of time, to wear a protective mask. This will help prevent breathing in the fine dust created while sanding.
4. Have throttle in "off" position when connecting to air supply.
5. Disconnect tool before performing service, changing accessories and when not in use.
6. Always use tool at a safe distance from other people in work area.
7. Secure work with clamps or vise so both hands are free to operate tool. Keep proper footing and balance at all times.
8. Do not wear loose or ill-fitting clothing, remove watches and rings.
9. Keep tool away from body when it is running.
10. Use proper hose and fitting. Never use quick change couplings attached at tool. They add weight and could fail due to vibration. Instead, add a hose whip and connect coupling between air supply and hose whip.
11. Make sure the RPM rating of the pad corresponds with the manufacturer's recommended speed of the tool. Over speeding an accessory is just plain dangerous.

ASSEMBLY INSTRUCTIONS

This assembly instruction indicate to you that how to complete major assembly process of AT100S Straight Line Sander. Please refer all parts below to the parts listed on AT100S Parts List, and assemble the Straight Line Sander in accord with the steps as follows.

Step 1: Insert the Rear Piston (Part #12) into the Body Assembly (Part # 14).

Note: The end with Teflon Packing of Rear Piston (Part #12) must be inner the Body Assembly (See Fig.A)

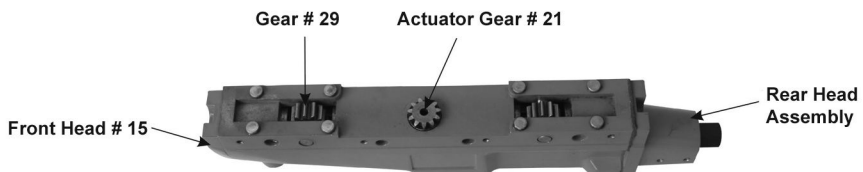


Step 2: Screw the Front Head (Part # 15) on the Body Assembly (Part # 14) by Hex. Screws (Part # 5) (See Fig. B)

Step 3: Screw the Rear Head Assembly (Part # 2 thru Part # 11) on the Body Assembly (Part # 14) by Hex. Screws (Part # 15) (See Fig. B)

Step 4: Install the Gear (Part # 29) into the Body Assembly (Part # 14) by Shaft (Part # 30) (See Fig. B)

Step 5: Insert the Actuator Gear (Part # 21) into the Body Assembly (Part # 14) (See Fig. B)



ASSEMBLY INSTRUCTIONS

Step 6: Push the Rear Piston (Part #12) to the Right of the sander clockwise until the Gear (Part # 29) stopped. (See Fig. C).

Step 7: Push the Rear (Part #29) to the Left of the sander clockwise until the edge Gear's right is parallel to the First tooth of the Gear Piston (Part # 12). Then you can see the rivet of Gear Piston (Part # 12). (See Fig. C & D).

Step 8: Turn the Actuator Gear (Part # 21) until the Round Mark is closest to the edge of Body Assembly (Part # 14). (See Fig. C).

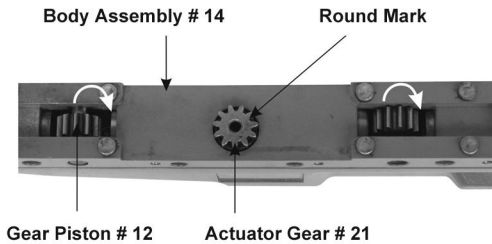


Fig. C

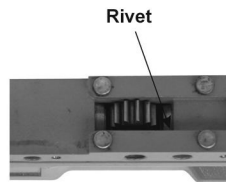


Fig. D

Step 9: Aim the Rear's tooth w/Round Mark to the Second Groove of the Rack (Part # 28), then install the Pad Assembly (Part # 33) onto the sander. (See Fig E).

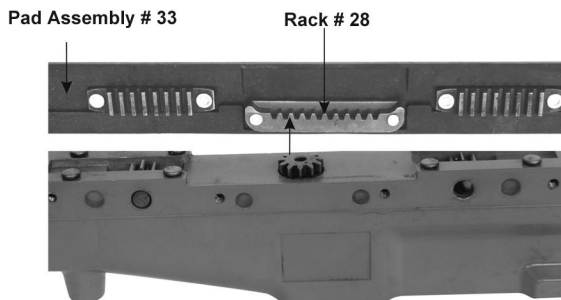
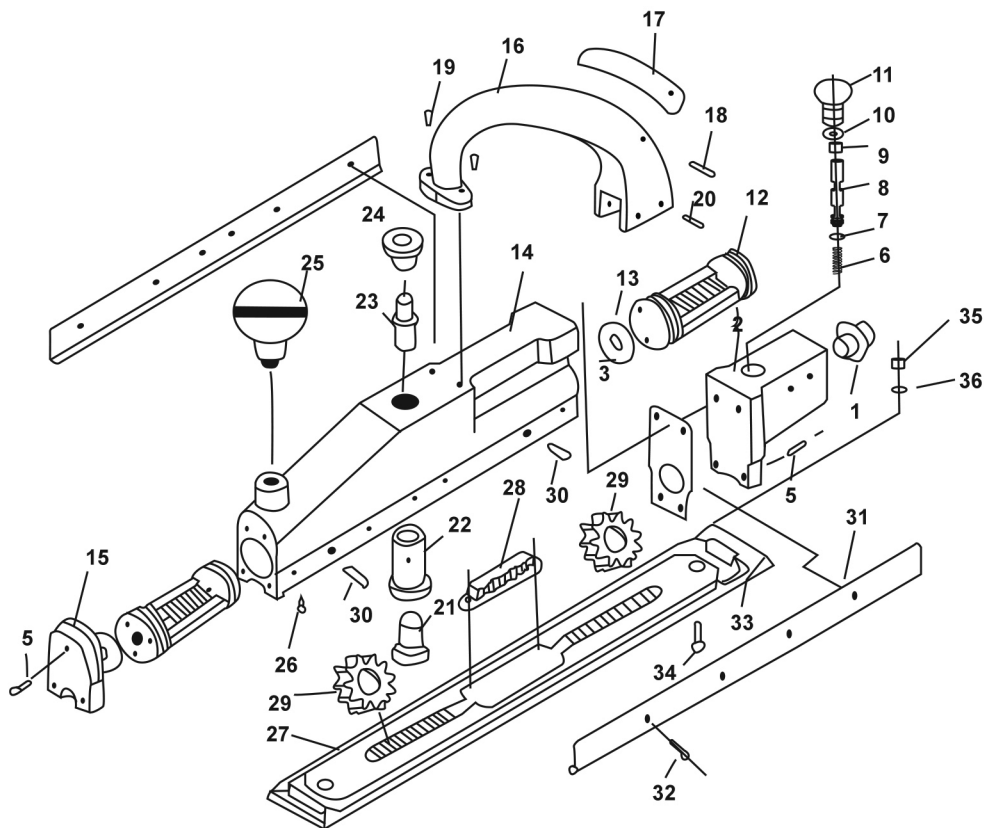


Fig. E

Step 10: Screw the Side Strap (Part # 31) on the Body Assembly (Part # 14).

Step 11: Screw the Handles (Part # 16, 25) on the Body Assembly (Part # 14).

Caution: Always use ANSI approved eye protection and glove when assembling this sander.



S.No.	Part No.	Description	Qty.	S.No.	Part No.	Description	Qty.
1	561601	Hose Adapter	1	19	561619	Philips Rd. Hd. Scr.	2
2	561602	Rear Head	1	20	561620	Flat Headle Screw	4
3	561603	Packing	1	21	561621	Actuator Gear	1
4				22	561622	Actuator Valve	1
5	561605	Socket Cap Screw	7	23	561623	Adj. Shaft	1
6	561606	Valve Spring	1	24	561624	Plunger	1
7	561607	Valve Riap	1	25	561625	Knob Assembly	1
8	561608	Valve Shaft	1	26	561626	Wear Button	1
9	561609	O-Ring	2	27	561627	Carrier	1
10	561610	O-Ring	1	28	561628	Rack	1
11	561611	Valve	1	29	561629	Gear	2
12	561612	Rear Piston	2	30	561630	Shaft	2
13	561613	Piston Rina	3	31	561631	Side Strap	2
14	561614	Body Assembly	1	32	561632	Philips Rd. Hd. Scr.	8
15	561615	Front Head	1	33	561633	Pad Assembly	1
16	561616	Handle	1	34	561634	Philips Rd. Hd. Scr.	2
17	561617	Trigger	1	35	561635	Hex. Nut	2
18	561618	Roll Pin	1	36	561636	Washer	2