



ATD-2182A 6" DUAL ACTION SANDER MANUAL



SPECIFICATIONS

Sanding Pad	6" (152 mm)
Free Speed	10,000 rpm
Average Air Consumption	3.3 CFM
Required Air Pressure	90 PSI (6.3 BAR)
Air Inlet Size	1/4"
Air Hose	3/8"
Dimensions	9.84" x 5.63" (250 mm x 143 mm)
Net Weight	4.08 Lbs. (1.85 Kgs)

California Proposition 65 Warning

⚠️ WARNING: This product contains chemicals including lead, known to the State of California to cause cancer, birth defects, or other reproductive harm. Wash hands after handling.

⚠️ WARNING: Some dust created by power sanding, sawing, grinding, drilling, and other construction activities contains chemicals known to the State of California to cause cancer, birth defects or other reproductive harm. Some examples of these chemicals are:

- Lead from lead-based paints
- Crystalline silica from bricks and cement and other masonry products
- Arsenic and chromium from chemically treated lumber

Your risk from exposure to these chemicals varies, depending on how often you do this type of work. To reduce your exposure, work in a well-ventilated area and with approved safety equipment, such as dust masks that are specially designed to filter out microscopic particles.

RISK OF EYE OR HEAD INJURY	
RISK OF FIRE OR EXPLOSION	
RISK OF LOSS OF HEARING	
INHALATION HAZARD	
RISK OF INJURY	

Repetitive Motion / Vibration Hazards


⚠️ WARNING: Avoid prolonged exposure to vibration. Vibration, repetitive motions, or uncomfortable positions over extended periods of time may be harmful to your hands and arms. Do not ignore symptoms or persistent or recurring discomfort, pain, throbbing, aching, tingling, numbness, burning sensation, or stiffness. Discontinue use of the tool and seek medical advice before resuming use.


General Safety Warnings


⚠️ WARNING: The instructions and warnings contained in this manual should be read and understood before using or operating this tool. Do not allow anyone to use or operate this tool until they have read this manual and have developed a thorough understanding of how this tool works. Failure to observe any of the following instructions could result in severe personal injury to tool user and bystanders, or cause damage to to the tool and property. Keep this manual for future reference.


📖 Note: The warnings and cautions discussed in this instruction manual cannot cover all possible conditions and situations that may occur. It must be understood by the operator that common sense and caution are factors which cannot be built into this product, but must be supplied by the operator.

 **WARNING:** Keep bystanders and children out of the work area while operating this tool.


 **WARNING:** Always keep your work area clean, uncluttered, and well lit. Cluttered or dark areas invite accidents and injuries. DO NOT work on floor surfaces that are slippery.


 **WARNING:** Do not operate this tool if you are tired or under the influence of alcohol, drugs, or medications that could affect your ability to use the tool properly.


 **WARNING:** Dress properly. Do not wear loose clothing or jewelry as they can be caught in moving parts. Wear restrictive hair covering to contain long hair.


 **WARNING:** Do not reach over or across running machines. Keep proper footing and balance at all times. Non-skid footwear is recommended when working.


Air Tool Use and Care

 **WARNING:** Air under pressure can cause severe injury. Never point an air tool at anyone or direct air at yourself or others. It could cause serious injury.


 **WARNING:** Always turn off the air supply, drain the hose of air pressure and detach the tool from the air supply before installing, removing or adjusting any accessory on this tool, or before performing any maintenance on this tool. Failure to do so could result in injury.


 **WARNING:** Always check for damaged, frayed or loose hoses and fittings. Have any defective or damaged parts replaced immediately by qualified personnel.

 **WARNING:** Do not carry the tool by the hose. Protect the hose from sharp objects and heat.

 **WARNING:** Always use air hose and couplings with a minimum working pressure rating of at least 1-1/2 times the maximum working pressure rating of the tool.

 **WARNING:** Do not depress the tool trigger/lever when connecting the air supply hose.

 **WARNING:** Do not lock, tape, wire, or otherwise disable the "ON/OFF" valve in the "ON" position. The trigger must always be free to return to the "OFF" position when released.

 **WARNING:** When the tool is not in use, shut off the air supply and press the trigger/lever to drain the air supply line. If the tool is not to be used for a period of time, first lubricate, disconnect from the air supply and store in a clean and dry location at average room temperature.

Typical Air Supply Installation

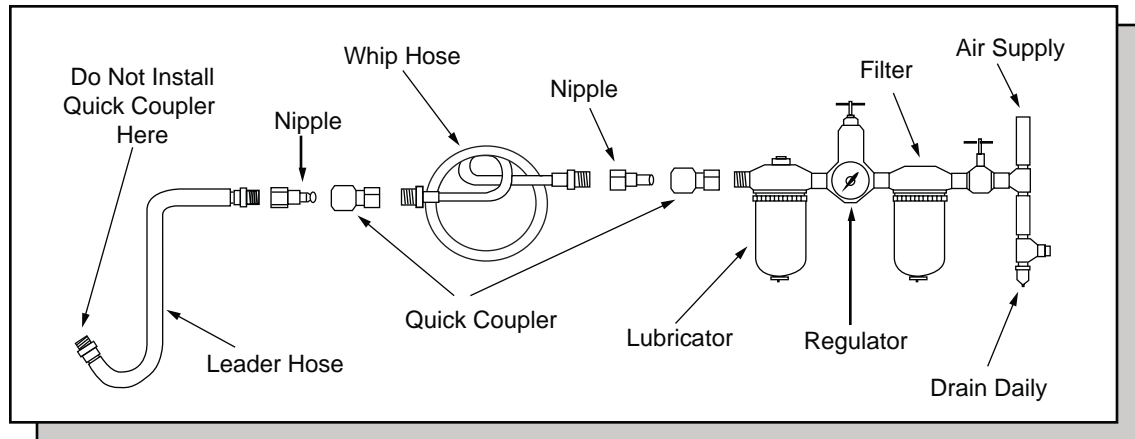


Figure 1

Always use clean, dry air. Dust, corrosive fumes and/or water in the airline will cause damage to the tool. Drain the air tank daily. Clean the air inlet filter screen on at least a weekly schedule. The recommended hook up procedure can be viewed in figure 1, above.

Lubrication

An automatic in-line filter-regulator-lubricator is recommended (figure 1) as it increases tool life and keeps the tool in sustained operation. The in-line lubricator should be regularly checked and filled with air tool oil. Proper adjustment of the in-line lubricator is performed by placing a sheet of paper next to the exhaust ports and holding the throttle open approximately 30 seconds. The lubricator is properly set when a light stain of oil collects on the paper. Excessive amounts of oil should be avoided.

In the event that it becomes necessary to store the tool for an extended period of time (overnight, weekend, etc.), it should receive a generous amount of lubrication at that time. The tool should be run for approximately 30 seconds to ensure oil has been evenly distributed throughout the tool. The tool should be stored in a clean and dry environment.

- It is most important that the tool be properly lubricated by keeping the air line lubricator filled and correctly adjusted. Without proper lubrication the tool will not work properly and parts will wear prematurely.
- Use the proper lubricant in the air line lubricator. The lubricator should be of low air flow or changing air flow type, and should be kept filled to the correct level. Use only recommended lubricants, specially made for pneumatic applications. Substitutes may harm the rubber compounds in the tools O-rings and other rubber parts.

IMPORTANT:

Lubricate the tool's air motor daily with quality air tool oil. If a filter/regulator/lubricator is not installed on the air system, air operated tools should be lubricated at least once a day or after 2 hours work with 2 to 6 drops of oil, depending on the work environment, directly through the male fitting in the tool housing. Overfilling will cause reduction in the power of the tool.

Preparation and Operation

Ensure you read, understand and apply safety instructions before use.

If more detail is needed, please refer to the parts breakdown on page 7 for details on the parts numbered in the instructions below.

1. Turn the ribbed side of lever (#5) to contact the flat of the bearing seat (#10) to lock the bearing seat into position while mounting your sanding pad. (Figure 2 & Figure 3)
2. Mount the sanding pad onto the bearing seat (#10) by turning the pad clockwise by hand, making sure the sanding pad is tight.

⚠ WARNING: Only use sanding pads that have an rpm rating equal to or greater than the tool itself.

3. Disengage the ribbed side of the lever (#5) from the bearing seat (#10) so that the bearing can move freely.
4. Mount sand paper (not provided) to the sanding pad.
5. Remove air cap from the tool and attach the air nipple.
6. Connect the air tool to the air hose.
7. Lubricate the tool before operating. (See lubrication or care and maintenance sections for instructions)
8. Press the trigger to operate the tool. (Figure 5)
9. The flow of air may be regulated by adjusting flow valve at the base of the handle. (Figure 6)
10. Ensure the air supply is clean and does not exceed 90 psi while operating the tool. Too high an air pressure and unclean air will shorten the product life due to excessive wear, and may be dangerous causing damage or personal injury.
11. Ensure that children stay away from the tool and workplace during operation.

DO NOT use any additional force upon the tool.

DO NOT allow tool to free run for an extended period of time as this will shorten its life.

📖 NOTE: The tool speed can be adjusted by turning the air regulator knob (#32) either clockwise or counterclockwise. (Figure 6)

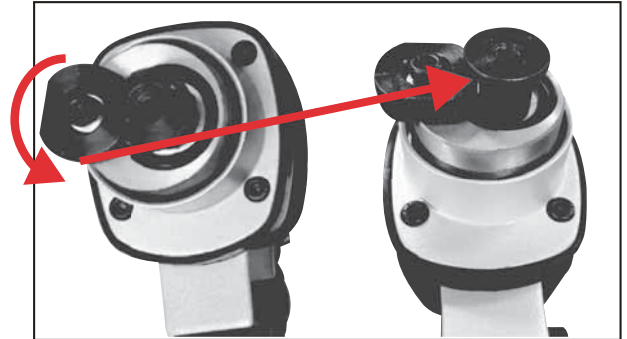


Figure 2

Figure 3

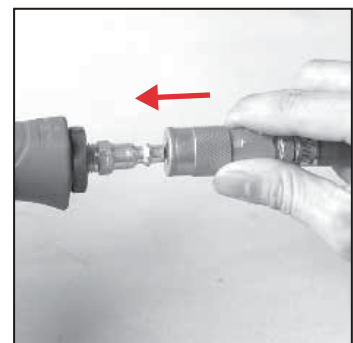


Figure 4

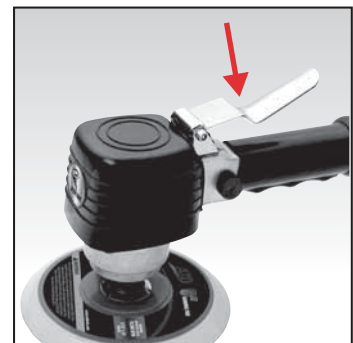


Figure 5

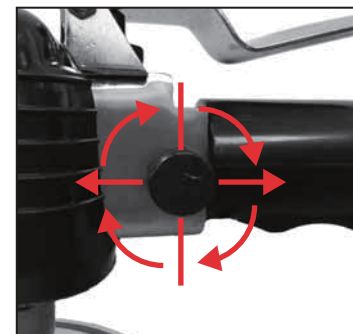



Figure 6

Care and Maintenance


The tool should be lubricated daily (or before each use) with air tool oil. There is a small, 5ml sample for first time use included.

 **NOTE:** Air tool oil is available at major hardware stores. SAE #10 weight oil or any high grade turbine oil containing moisture absorbant, rust inhibitors, metal wetting agents and an EP (extreme pressure) additive may be used as a substitute.

DO NOT USE DETERGENT OIL.

During continuous operation, the tool should be oiled every 1 to 2 hours. This may be done using an in-line oiler or manually. If done manually, proceed as follows:

1. Disconnect the tool from the air supply. (Figure 7)
2. Place a few drops of air tool oil into the inlet. (Figure 8)

 **NOTE:** Avoid the misuse of thicker oil which may lead to reduced performance or malfunction.

3. Connect the tool to the air supply. Run the tool without load for a few seconds to distribute oil through the tool.

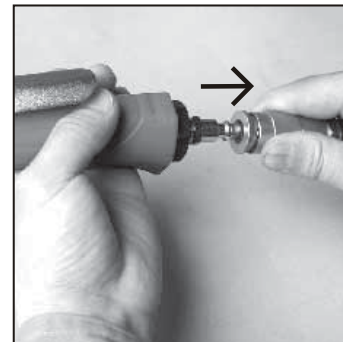


Figure 7

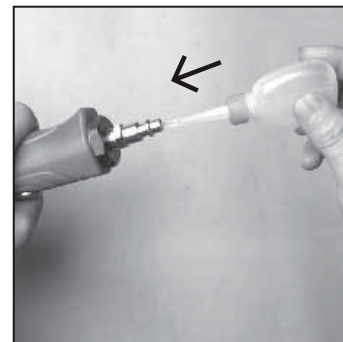


Figure 8

 **NOTE:** Any excess oil may be propelled from the air exhaust area so keep the tool pointed in a safe direction.

4. After operating the tool and before storing the tool, disconnect the air hose and place 4 or 5 drops of air tool oil into the air inlet, then reconnect the air hose and run the tool for approximately 30 seconds to evenly distribute the oil throughout the tool.
5. Avoid storing the tool in a humid environment, as that promotes rusting of internal mechanisms. Always oil the tool before storage.
6. When the tool is seriously damaged or beyond repair, please dispose of properly. Recycle if possible. Never incinerate this tool.

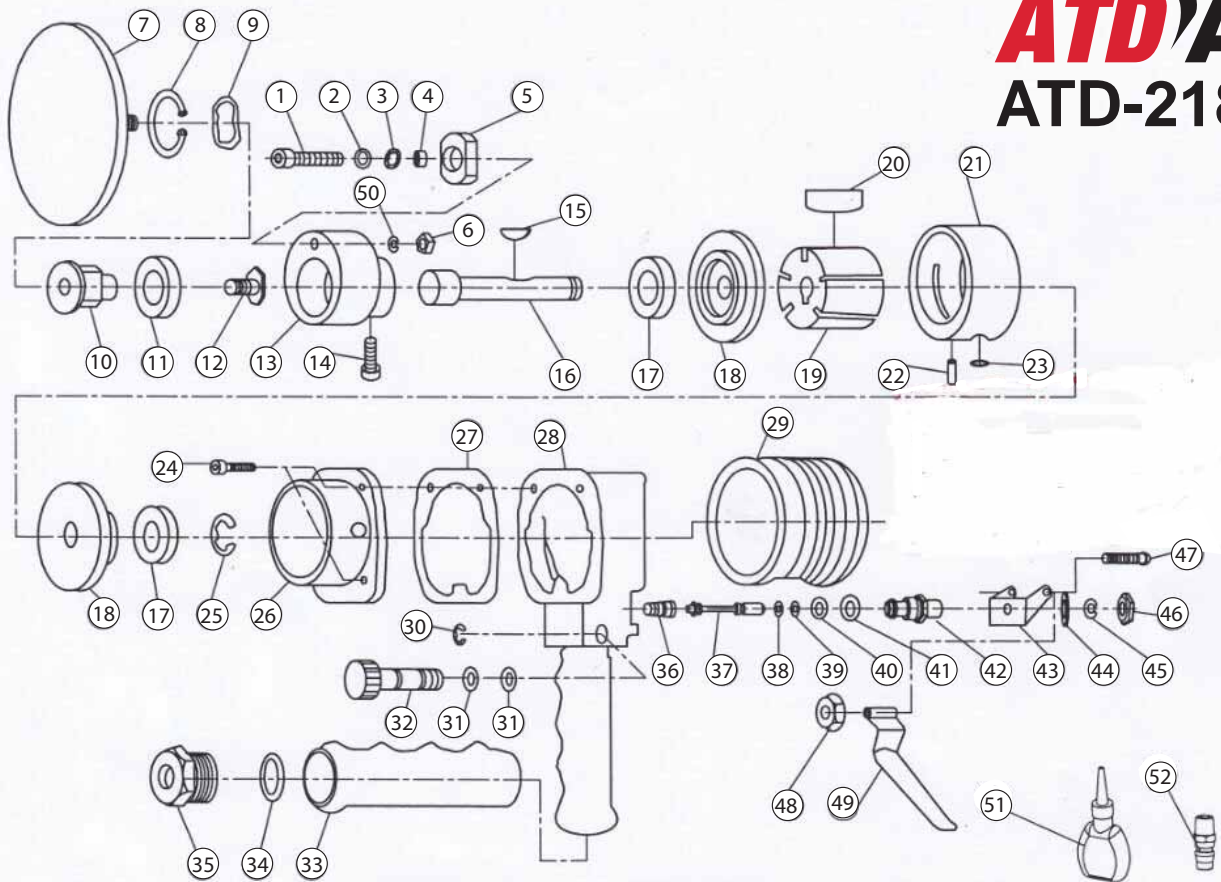
Troubleshooting

PROBLEM	POSSIBLE CAUSE	CORRECTIVE ACTION
Tool runs at normal speed but loses power under load	• Motor parts worn.	• Lubricating clutch housing.
	• Cam clutch worn or sticking due to lack of lubricant.	• Check for excess clutch oil. Clutch cases need only be half full. Overfilling can cause drag on high speed clutch parts. A typical oiled/lubricated wrench requires 1/2 ounce of oil. GREASE LUBRICATED: NOTE: Heat usually indicates insufficient grease in chamber. Severe operating conditions may require more frequent lubrication.
Tool runs slowly. Air flows slightly from exhaust	• Motor parts jammed with dirt particles	• Check air inlet filter for blockage.
	• Power regulator in closed position	• Pour air tool lubricating oil into air inlet as per instructions.
	• Air flow blocked by dirt.	• Operate tool in short bursts quickly reversing rotation back and forth where applicable. • Repeat above as needed.
Tools will not run. Air flows freely from exhaust	• One or more motor vanes stuck due to material build up.	• Pour air tool lubricating tool into air inlet.
		• Operate tool in short bursts of forward and/or reverse rotation where applicable.
		• Tap motor housing gently with plastic mallet.
		• Disconnect supply. Free motor by rotating drive shank manually where applicable
Tool will not shut off	• 'O' rings throttle valve dislodged from seat inlet valve.	• Replace 'O' ring .
Abnormal vibration or excessive heat develops in the tool	• Improper lubrication	• Follow proper lubrication procedures in this manual
Note: Repairs should be carried out by a qualified person.		



ATD AIR[®]

ATD-2182A



ITEM#	ORDERING PART#	PART DESCRIPTION
1	PRT2182A-01	BOLT
2	PRT2182A-02	FLAT WASHER
3	PRT2182A-03	SPRING WASHER
4	PRT2182A-04	COPPER INLAY
5	PRT2182A-05	NUT
6	PRT2182A-06	NUT M6
7	ATD2076 / ATD2078	6" SANDING PAD
8	PRT2182A-08	RETAINER RING 32
9	PRT2182A-09	WAVE WASHER
10	PRT2182A-10	DRIVE SPINDLE
11	PRT2182A-11	BEARING 6201
12	PRT2182A-12	BOLT
13	PRT2182A-13	ORBITAL SHAFT
14	PRT2182A-14	BOLT M5*25
15	PRT2182A-15	WOODRUFF KEY
16	PRT2182A-16	CRANK SHAFT
17	PRT2182A-17	BEARING 6200 *2PCS
18	PRT2182A-18	CYLINDER CAP*2PCS
19	PRT2182A-19	ROTOR
20	PRT2182A-20	ROTOR BLADE*5PCS
21	PRT2182A-21	CYLINDER
22	PRT2182A-22	PIN 3*7
23	PRT2182A-23	O-RING 7.5*1.8
24	PRT2182A-24	BOLT M5*16*4PCS
25	PRT2182A-25	RETAINER RING 8
26	PRT2182A-26	MOTOR HOUSING

ITEM#	ORDERING PART#	PART DESCRIPTION
27	PRT2182A-27	GASKET
28	PRT2182A-28	HOUSING
29	PRT2182A-29	HOUSING GRIP
30	PRT2182A-30	RETAINER RING 6
31	PRT2182A-31	O-RING 4.5*1.8
32	PRT2182A-32	CONTROL KNOB
33	PRT2182A-33	HANDLE COVER
34	PRT2182A-34	O-RING 22.4*1.8
35	PRT2182A-35	AIR INLET PLUG
36	PRT2182A-36	COMPRESSION SPRING
37	PRT2182A-37	VALVE STEM
38	PRT2182A-38	O-RING 4*2*2PCS
39	PRT2182A-39	O-RING 3.5*1.5
40	PRT2182A-40	O-RING 8*1.5
41	PRT2182A-41	O-RING 11.5*1.6
42	PRT2182A-42	VALVE SEAT
43	PRT2182A-43	BRACKET
44	PRT2182A-44	WASHER
45	PRT2182A-45	SPRING WASHER 10
46	PRT2182A-46	HEX NUT M10
47	PRT2182A-47	SCREW M4*35
48	PRT2182A-48	HEX NUT M4
49	PRT2182A-49	TRIGGER
50	PRT2182A-50	SPRING WASHER 6
51	PRT2182A-51	OIL BOTTLE
52	PRT2182A-52	ADAPTER