



ATD-2182 6" DUAL ACTION SANDER OWNERS MANUAL





SPECIFICATIONS

Sanding Pad	6" (152 mm)
Free Speed	10,000 RPM
Average Air Consumption	4.5 SCFM
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	3.86 Lbs. (1.75 Kgs)

⚠ California Prop 65 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.

CA Prop 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 paint,
- Crystalline silica from bricks, cement, and other masonry products, and
- Arsenic and chromium from chemically treated lumber.

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




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 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:** Use safety equipment. User and bystanders should use safety goggles or safety glasses with side shields which comply with current national standards, or when needed, a face shield. Use an ANSI approved dust mask or respirator when working around metal, wood, and chemical dusts and mists. This applies to all persons in the work area. Also use non-skid safety shoes, hardhat, gloves, dust collection systems, and hearing protection which complies with national standards when appropriate.

 **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.

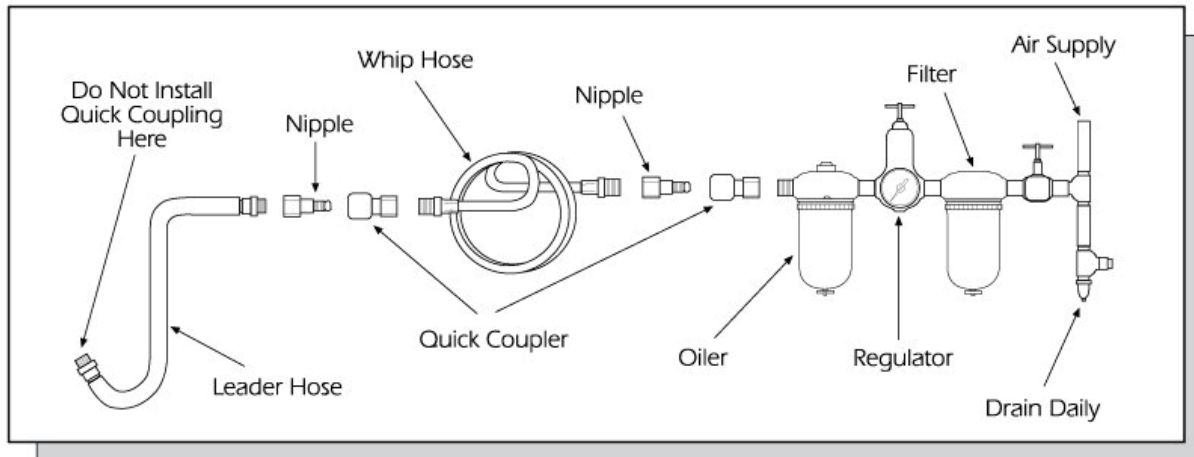
 **WARNING:** Do not lock, tape, wire, or otherwise disable the "ON/OFF" valve in the "ON" position. The trigger must always be free to return to the "OFF" position when released.

 **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.



NOTE:

Typical Air Supply Installation



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 the above figure.

Lubricate the tool's air motor daily with quality air tool oil. If no airline oiler is used, run 1/2 oz. of oil through the tool. The oil can be squirted into the tool air inlet or into the hose at the nearest connection to the air supply, then run into the tool. Overfilling will cause a reduction in the power of the tool.

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.

Contents


Description	Quantity
6" DA Sander	1
Sanding Pad	1
Male Plug	1
Manual	1

Preparation


Before beginning assembly or operation of your ATD dual action sander, make sure that all the parts are included. Compare parts package with the contents list above. If any part is missing or damaged, do not attempt to assemble, install or operate your sander. Contact your supplier, distributor or sales agent for replacement.

Operation

1. Lubricate the tool before operating. See "Care and Maintenance" section for oiling instructions.
2. Turn the ribbed side of lever (#38) to contact the flat of the bearing seat (#46) to lock the bearing seat into position while mounting your sanding pad.
3. Mount the sanding pad onto the bearing seat (#46) by turning the pad clockwise by hand. Make sure that the sanding pad is tight. (See figure 2)

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

4. Disengage the ribbed side of the lever (#38) from the bearing seat (#46) so that the bearing seat can move freely. (See figure 3)
5. Mount sand paper (not provided) onto the sanding pad
6. Remove air cap from the tool air inlet and mount a male plug. Connect the air supply hose to the tool. Set the working pressure to 90 PSI. (See figure 4)
7. Press the trigger to start tool. (See figure 5)

 **NOTE:** The tool speed can be adjusted by turning the air regulator knob (#13) either clockwise or counterclockwise. The maximum tool speed can be obtained when the line on the knob is perpendicular to the tool handle (See figure 6)

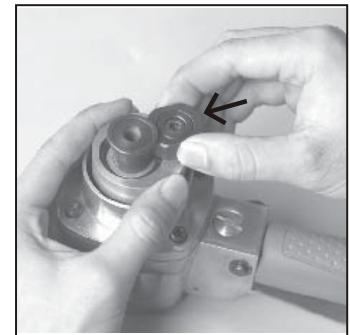


Figure 1

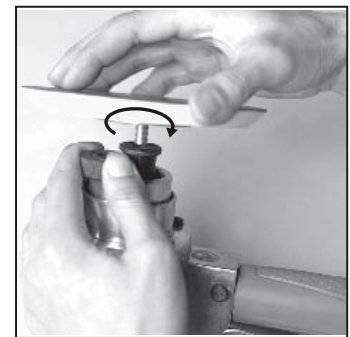


Figure 2

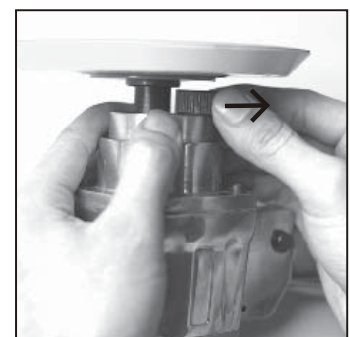


Figure 3

Care and Maintenance

The tool should be lubricated daily (or before each use) with air tool oil (not 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. (See figure 7)
2. Place a few drops of air tool oil into the inlet. (See 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.



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.

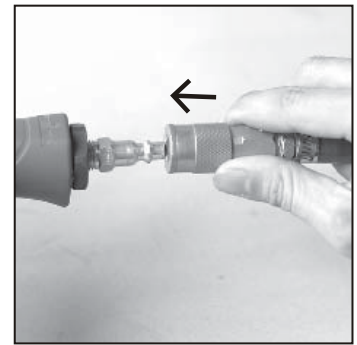


Figure 4

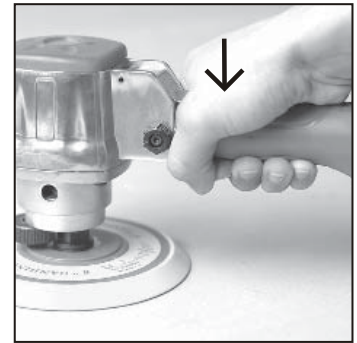


Figure 5

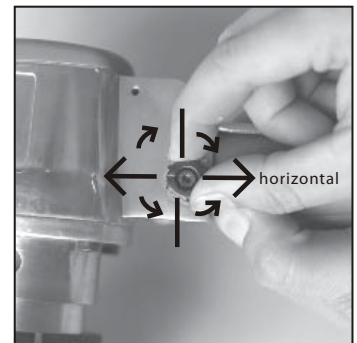


Figure 6

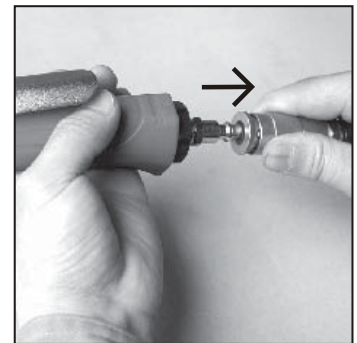


Figure 7

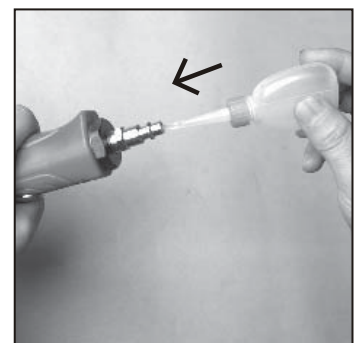


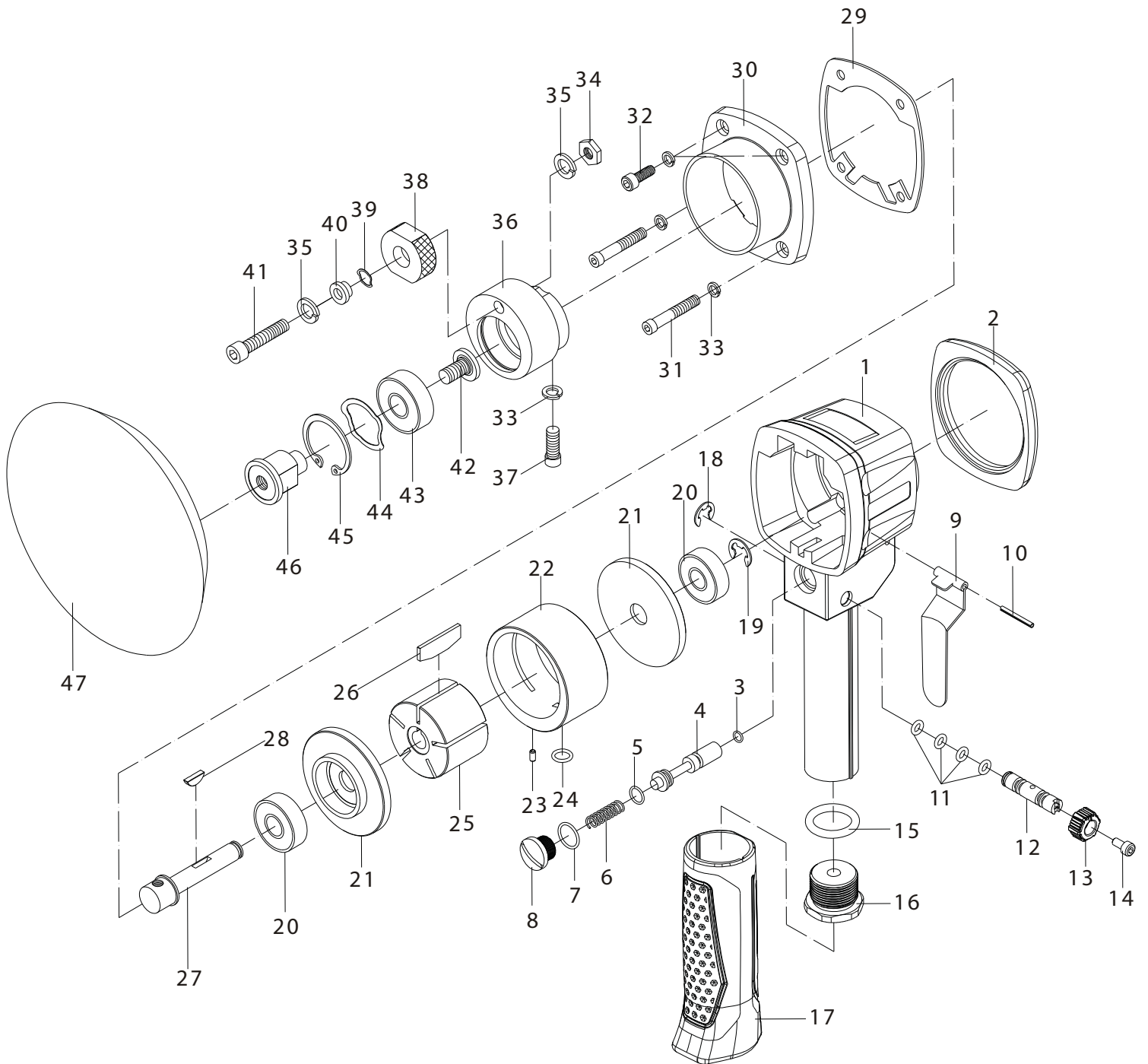
Figure 8

Troubleshooting

Problem	Possible Cause	Corrective Action
<p>Tool runs slowly or will not operate</p>	<ol style="list-style-type: none"> 1. Grit or gum in tool. 2. No oil in tool. 3. Low air pressure. 4. Air hose leaks. 5. Pressure drops. 6. Worn rotor blade. 7. Moisture blowing out of tool exhaust. 	<ol style="list-style-type: none"> 1. Flush the tool with air-tool oil or gum solvent. 2. Lubricate the tool according to the lubrication instructions in this manual. 3. a. Adjust the regulator on the tool to maximum setting. b. Adjust the compressor regulator to tool maximum of 90 PSIG. 4. Tighten and seal hose fittings if leaks are found. Use sealing tape. 5. a. Be sure the hose is the proper size. Long hose or tools using large volumes of air may require a hose with an I.D. of 1/2 in. or larger depending on the total length of the hoses. b. Do not use a multiple number of hoses connected together with quick-connect fittings. This causes additional pressure drops and reduces the tool power. Directly connect the hoses together. 6. Replace rotor blade. 7. Water in tank: drain tank. (See air compressor manual). Oil tool and run until no water is evident. Oil tool again and run 1-2 seconds.
<p>Abnormal vibration and/or excessive heat develops in the tool.</p>	<p>Improper lubrication.</p>	<p>Follow proper lubrication procedures in this manual.</p>



ATD AIR
ATD-2182





ITEM#	ORDERING PART#	PART DESCRIPTION
1	PRT2182-01	MAIN HOUSING
2	PRT2182-02	TOP COVER
3	PRT2182-RK	O-RING
4	PRT2182-04	VALVE STEM
5	PRT2182-RK	O-RING
6	PRT2182-06	SPRING
7	PRT2182-RK	O-RING
8	PRT2182-08	SCREW NUT
9	PRT2182-09	TRIGGER
10	PRT2182-10	BOLT
11	PRT2182-RK	O-RING (4)
12	PRT2182-12	AIR REGULATOR
13	PRT2182-13	AIR REGULATOR KNOB
14	PRT2182-14	SCREW NUT
15	PRT2182-RK	O-RING
16	PRT2182-16	AIR INLET
17	PRT2182-17	HANDLE GRIP
18	PRT2182-18	E-RING
19	PRT2182-19	E-RING
20	PRT2182-20	BEARING (2)
21	PRT2182-21	FRONT/END COVER (2)
22	PRT2182-22	CYLINDER
23	PRT2182-23	BOLT
24	PRT2182-RK	O-RING

ITEM#	ORDERING PART#	PART DESCRIPTION
25	PRT2182-25	ROTOR
26	PRT2182-RK	ROTOR BLADE (5)
27	PRT2182-27	WORK SPINDLE
28	PRT2182-28	SEMI ROUND KEY
29	PRT2182-RK	GASKET
30	PRT2182-30	FRONT COVER
31	PRT2182-31	SET SCREW (2)
32	PRT2182-32	SET SCREW (2)
33	PRT2182-33	WASHER (5)
34	PRT2182-34	NUT
35	PRT2182-35	WASHER (2)
36	PRT2182-36	ORBIT WHEEL
37	PRT2182-37	SET SCREW
38	PRT2182-38	LEVER
39	PRT2182-39	WASHER
40	PRT2182-40	CUSHION
41	PRT2182-41	SCREW
42	PRT2182-42	SET SCREW
43	PRT2182-43	BEARING
44	PRT2182-44	WASHER
45	PRT2182-45	E-RING
46	PRT2182-46	BEARING SEAT
47	ATD2076 / ATD2078	SANDING PAD
N/S	PRT2182-RK	REPAIR KIT*

*REPAIR KIT INCLUDES: 3, 5, 7, 11, 15, 24, 26, & 29



1 YEAR REPLACEMENT WARRANTY

THIS WARRANTY AND CONFIRMED RECEIPT (S) SHOULD BE *RETAINED BY THE CUSTOMER AT ALL TIMES*
The warranty is only made available by returning the product to the point of sale.

PURCHASED FROM: _____

DATE PURCHASED: _____

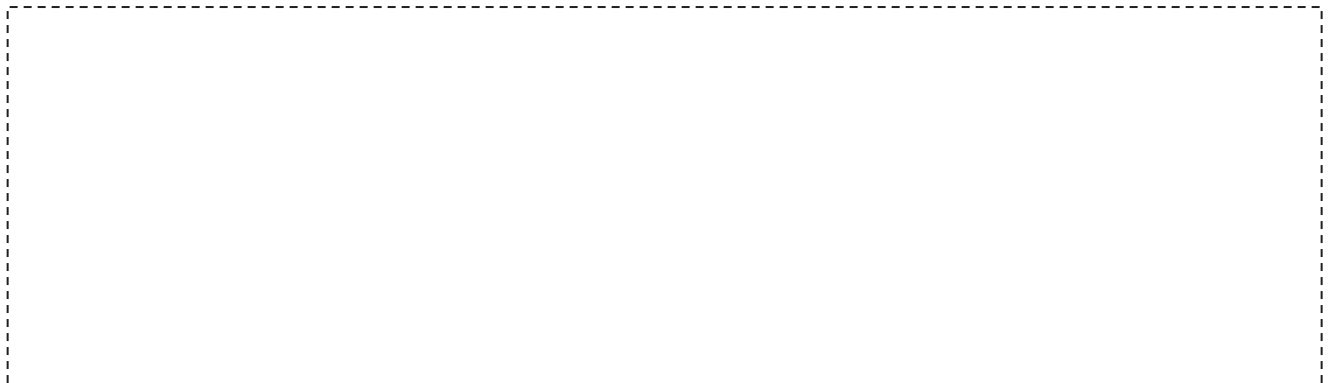
INVOICE/RECIEPT NUMBER: _____

Your ATD-2182 is warranted for a period of 12 months from the original date of. Any consumable items, such as carbon brushes, batteries, drill and driver bits and chucks are covered by a 90 day warranty. This warranty is valid for defects in workmanship or materials only, and is handled at the point of sale.

The warranty given on this tool is against defects in workmanship and materials only. Any misuse, abuse or accidental damage is not covered by warranty. The following actions will also result in the warranty being void:

- If the tool has been operated on a supply pressure other than that specified on the tool.
- If the tool shows signs of damage or defects caused by or resulting from abuse, accidents or alterations.
- If the tool is disassembled or tampered with in any way.

Note: Warranty excludes consumable parts such as carbon brushes, batteries, drill and driver bits and chucks.



[Affix receipt or invoice here for safe keeping]