



ATD-2106

1/2" Composite Air Impact Wrench

Owners Manual





SPECIFICATIONS:

Square Drive.....	1/2" (12.7mm)
Bolt Capacity.....	3/4" (19mm)
Free Speed.....	7,500 RPM
Max Torque.....	1,290 ft-lbs (1,750Nm)
Required Air Pressure.....	90 PSI (6.3 BAR)
Average Air Consumption.....	4.3cfm (122 l/min)
Noise Level.....	90 dba
Air Inlet.....	1/4"
Hose Size.....	3/8"
Net Weight.....	4.6lbs (2.1kgs)
Length.....	7.7" (196mm)

⚠️ 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.

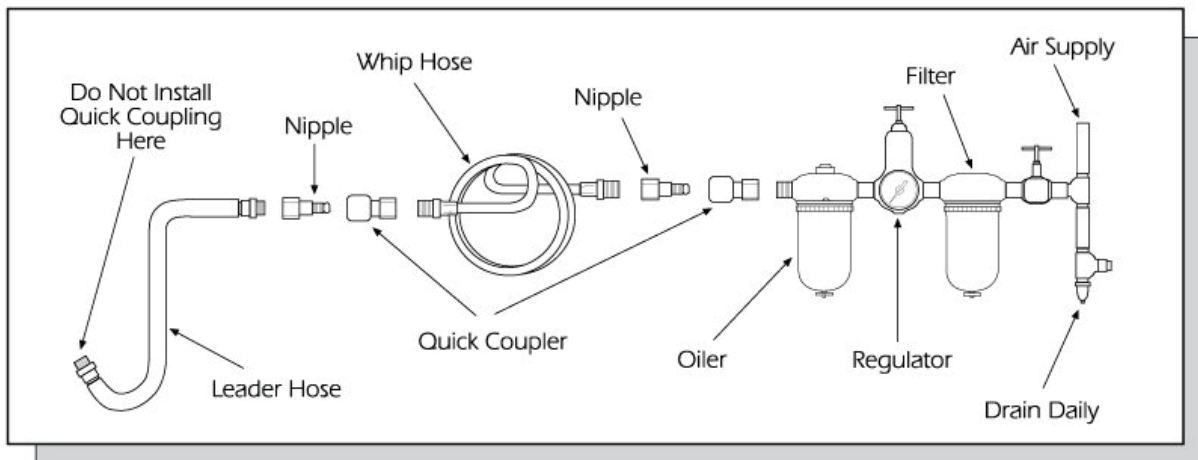
 **WARNING:** Do not lock, tape, wire, or otherwise disable the "ON/OFF" valve in the "ON" position. The trigger must always be free to return to the "OFF" position when released.

 **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.

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.
2. Place a few drops of air tool oil into the inlet.
3. Connect the tool to the air supply. Run the tool without load for a few seconds to distribute oil through the tool.



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

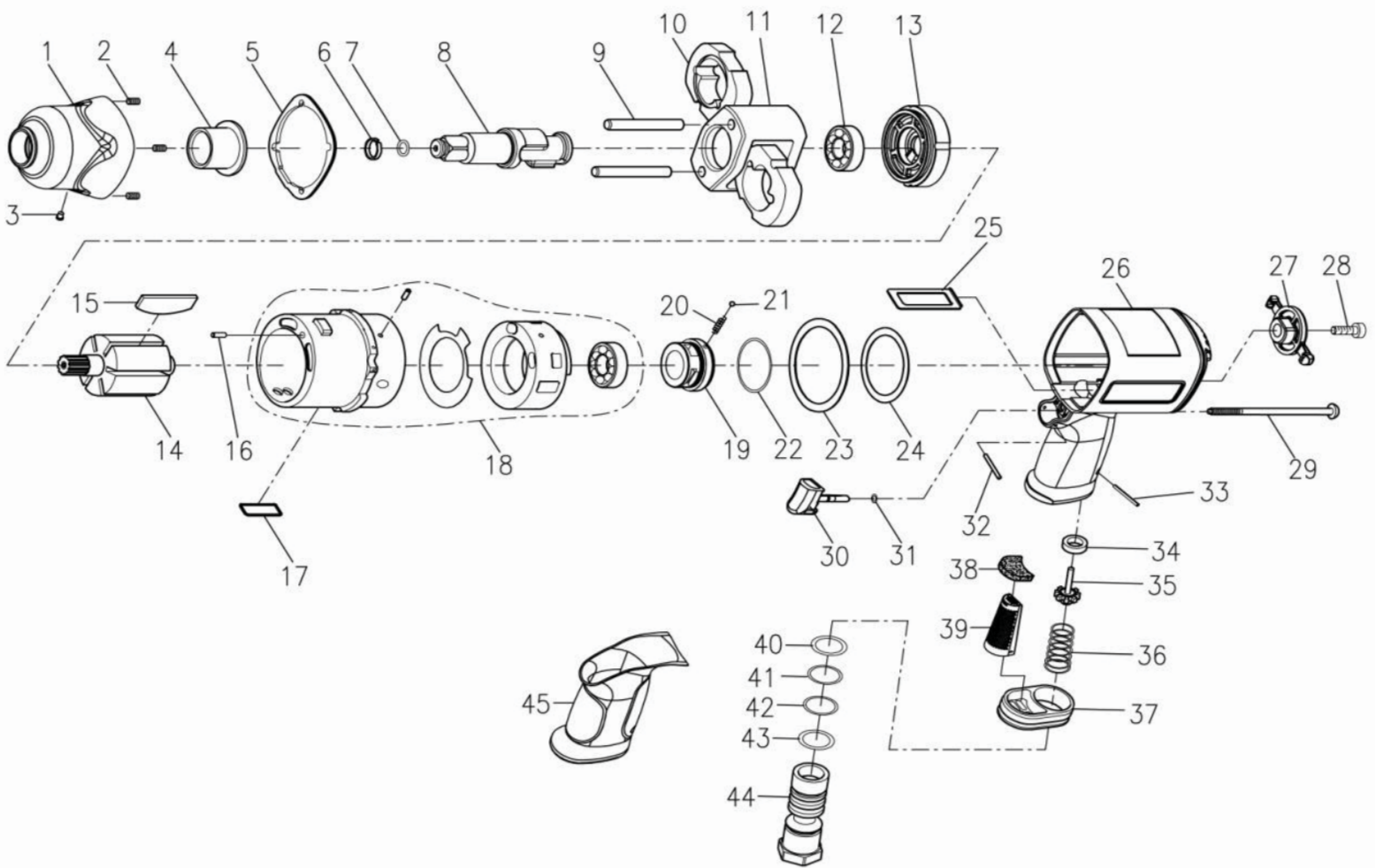


NOTE: Any excess oil may be propelled from the air exhaust area so keep the tool pointed in a safe direction.

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 slowly down or doesn't work	Grit or gum in motor	A) Add diesel fuel into air inlet to flush motor. And then add air tool oil to lubricate it.
		B) Disassemble tool & repair it
	Low air pressure	Check the compressor gauge and adjust the compressor regulator
	Dry or rusty motor	Lubricate the tool with air tool oil
	No oil in tool	Lubricate the tool with air tool oil
Reduced Torque	Worn ball bearing	Replace Ball bearing
	Lack of lubrication	Lubricate the tool with air tool oil
	Regulator set in wrong position	Adjust regulator
	Low pressure	Check the pressure of the air inlet to be sure it is at 90 PSI
Doesn't impact totally but can run free	Worn impact mechanism	Replace parts
	Seriously worn or damaged parts of impact set	Have the tool repaired by a qualified service center or technician
Self running	Trigger system: 1) Valve stem won't move back 2) Rusty or deformed steel ball 3) Rusty or cracked spring	Replace parts
Moisture blowing out of tool	1) Water in tank	A) Drain tank. Oil tool and run until no water is evident. Oil tool and run 1-2 seconds
	2) Water in air lines/hoses	B) Install a water separator/filter. NOTE: Separators only work properly when the air passing through the separator is cool. Locate the separator/filter as far as possible from the compressor. C) Install an air dryer





ITEM#	ORDERING PART#	PART DESCRIPTION
1	PRT2106-01	HAMMER CASE
2	PRT2106-02	INSERTS RECOIL (M5)
3	PRT2106-03	GREASE FITTING (1/8")
4	PRT2106-04	ANVIL BUSHING
5	PRT2106-05	FRONT GASKET
6	PRT2106-06	ANVIL COLLAR
7	PRT2106-07	O-RING (P7)
8	PRT2106-08	ANVIL
8	PRT2106-08A	2" ANVIL (OPTIONAL)
9	PRT2106-09	HAMMER PIN
10	PRT2106-10	HAMMER
11	PRT2106-11	HAMMER CAGE
12	PRT2106-12	BALL BEARING (6002)
13	PRT2106-13	FRONT END PLATE
14	PRT2106-14	ROTOR
15	PRT2106-15	ROTOR BLADE
16	PRT2106-16	PIN (3x8.7L)
17	PRT2106-17	SQUARE RING
18	PRT2106-18	CYLINDER ASSEMBLY
19	PRT2106-19	REGULATOR
20	PRT2106-20	SPRING
21	PRT2106-21	STEEL BALL (1/8")
22	PRT2106-22	O-RING 31x1.5
23	PRT2106-23	REAR GASKET

ITEM#	ORDERING PART#	PART DESCRIPTION
24	PRT2106-24	WASHER
25	PRT2106-25	AIR CHANNEL GASKET
26	PRT2106-26	MOTOR HOUSING
27	PRT2106-27	REGULATOR KNOB
28	PRT2106-28	CAP SCREW (M5x6L)
29	PRT2106-29	SCREW (M5)
30	PRT2106-30	TRIGGER
31	PRT2106-31	O-RING 3x1
32	PRT2106-32	SPRING PIN (2x22L)
33	PRT2106-33	SPRING PIN (3x18L)
34	PRT2106-34	BUSHING
35	PRT2106-35	VALVE STEM
36	PRT2106-36	SPRING
37	PRT2106-37	EXHAUST DEFLECTOR
38	PRT2106-38	MUFFLER
39	PRT2106-39	MUFFLER
40	PRT2106-40	O-RING (P16)
41	PRT2106-41	O-RING (17x1.5)
42	PRT2106-42	O-RING (17.17x1.78)
43	PRT2106-43	WASHER
44	PRT2106-44	AIR INLET
45	PRT2106-45	HANDLE RUBBER
SK	PRT2106-SK	SPRING AND SEAL KIT
HK	PRT2106-HK	HAMMER KIT



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: _____

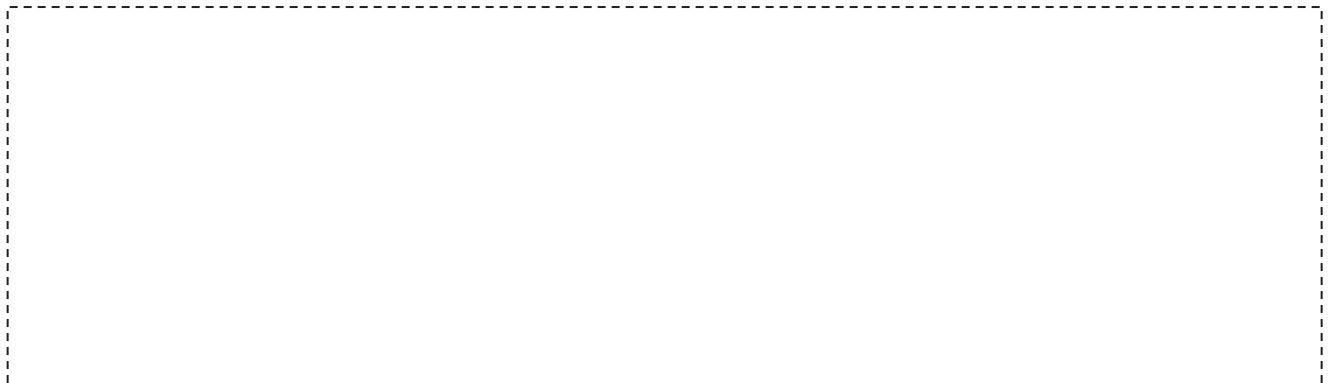
INVOICE/RECIEPT NUMBER: _____

Your ATD-2106 is warranted for a period of 12 months from the original date of sale. Any consumable items 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, etc.



[Affix receipt or invoice here for safe keeping]