

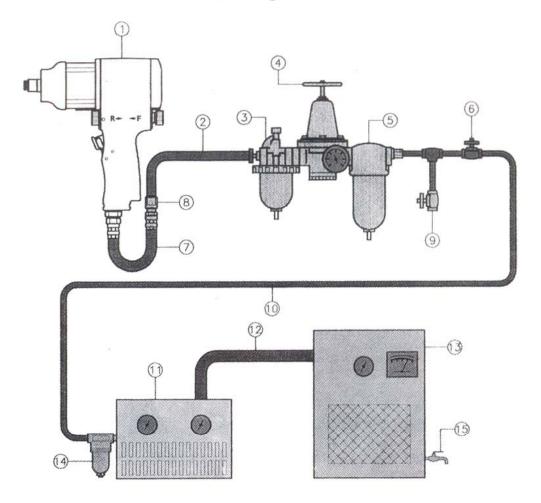
ATD-2102 OPERATING INSTRUCTIONS



For your own safety, please read the operating instructions carefully before using your ATD2102 air impact ratchet.

- 1. Maintain proper incoming air pressure, 90 PSI (6.3 kg/cm2), at all times in order to maintain your safety and prolong the use of the tool.
- 2. Don't wear loose or baggy clothing when you operate this tool. Remove anything that may cause injury, i.e. neckties, jewelry, etc. Tie back long hair and ALWAYS wear eye protection
- 3. It is the owner's responsibility to lubricate the air tool properly. Don't use any flammable or volatile oils for lubricating, i.e. diesel oil, kerosene or gasoline
- 4. Make sure to use quality impact sockets only, don't use hand tool sockets. Cracking sockets will reduce the torque of the air tool and may cause serious injury.
- 5. Don't depress trigger when connecting the air supply hose.
- 6. Protect the air lines from damage or puncture
- 7. Never point an air tool at anyone, or at yourself. It could cause serious injury.
- 8. Keep all nuts, bolts and screws tight and ensure equipment is in safe working condition before each use.

Air Tools and Pipe Fitting System



- 1. Air Tool
- 2. Air Hose 3/8"
- 3. Oiler
- 4. Pressure Regulator
- 5. Filter
- 6. Shut Off Valve
- 7. Lead Hose
- 8. Coupler body and connector
- 9. Drain daily
- 10. 1/2" or larger pipe and fitting
- 11. Air Dryer
- 12. 1" or larger pipe and fitting
- 13. Air Compressor
- 14. Auto Drain
- 15. Drain daily

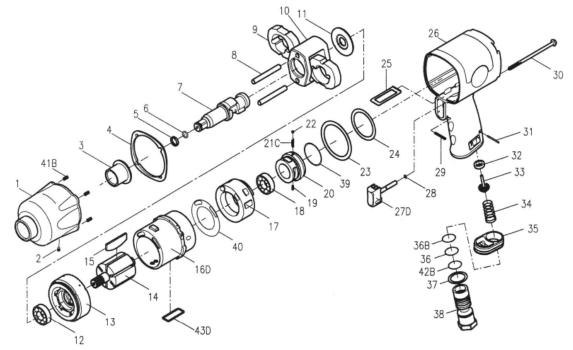
*****CAUTION :

- 1. To protect air tools, we strongly recommend that you install a pneumatic filter, moisture separator, regulator and lubricator between the air supply and Air Tools.
- 2. Please notice if the moisture in pipe is too much and if your air compressor is made to drain daily.
- 3. Be sure to fill with SAE#10 lubricating oil into the air inlet before using air tools.
- 4. Before using air tools, please keep proper air pressure.
- 5. Don't fill with too thick of oil, or it will lessen the air motor power.

GENERAL TROUBLESHOOTING GUIDE

SYMPTOM	POSSIBLE CAUSES	CORRECTIVE ACTION
Tool runs slowly down or doesn't work.	1. Grit or gum in motor set.	1a. Drop diesel oil from air inlet to flush motor set, and then drop SAE#10 motor oil to lubricate it.
	-	1b. Disassemble tool and repair it.
	2. Low air pressure.	2. Check the air compressor meter and adjust the compressor regulator.
	3. Dry or rusty motor set.	3. Lubricate the tool with SAE#10 motor oil or sewing machine oil.
	4. No oil in tool.	4. Do the same as point 3.
	5. Worn ball bearing.	5. Replace ball bearing.
Reduced torque	1. Lack of lubrication.	1. Lubricate the tool.
	2. Regulator set in wrong position.	 Adjust the regulator to correct position.
	3. Low pressure.	3. Check the pressure of air inlet to see
		if it is at correct number 90 PSI.
	4. Worn impact mechanism.	4. Replace parts.
Doesn't impact totally but can run free	Serious worn parts or damaged parts of impact set.	Disassemble tool and replace parts.
Self-running	Trigger system:.	Replace parts.
	1. Valve stem can't remove back.	
	2. Rusty or deformed steel ball.	
	3. Rusty or cracked spring.	
Moisture blowing out of tool	 Water in tank. Water in the air lines/hoses. 	 Drain tank. Oil tool and run until no Water is evident. Oil tool again and run 1-2 seconds.
		2a. 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.
		2b. Install an air dryer.





ITEM#	ORDERING PART#	PART DESCRIPTION
1	PRT2102-01	HAMMER CASE
2	PRT2102-02	GREASE FITTING
3	PRT2102-03	ANVIL BUSHING
4	PRT2102-04	FRONT GASKET
5	PRT2102-05	ANVIL COLLAR
6	PRT2102-06	O-RING
7	PRT2102-07A	ANVIL
7	PRT2102-07B	2" ANVIL
8	PRT2102-08	HAMMER PIN
9	PRT2102-09	HAMMER
10	PRT2102-10	HAMMER CAGE
11	PRT2102-11	REAR WASHER
12	PRT2102-12	BALL BEARING
13	PRT2102-13	FRONT END PLATE
14	PRT2102-14	ROTOR
15	PRT2102-15	ROTOR BLADE
16D	PRT2102-16	CYLINDER
17	PRT2102-17	VALVE SLEEVE
18	PRT2102-18	BALL BEARING
19	PRT2102-19	SPRING PIN
20	PRT2102-20	REVERSE VALVE
21C	PRT2102-21	SPRING
22	PRT2102-22	STEEL BALL
23	PRT2102-23	REAR GASKET

ITEM#	ORDERING PART#	PART DESCRIPTION
24	PRT2102-24	WASHER
25	PRT2102-25	AIR CHANNEL GASKET
26	PRT2102-26	MOTOR HOUSING
27D	PRT2102-27	TRIGGER
28	PRT2102-28	O-RING
29	PRT2102-29	SPRING PIN
30	PRT2102-30	SCREW
31	PRT2102-31	SPRING PIN
32	PRT2102-32	BUSHING
33	PRT2102-33	VALVE STEM
34	PRT2102-34	SPRING
35	PRT2102-35	EXHAUST DEFLECTOR
36	PRT2102-36	O-RING
36B	PRT2102-36B	O-RING
37	PRT2102-37	WASHER
38	PRT2102-38	AIR INLET (1/4" PF)
39	PRT2102-39	O-RING
40	PRT2102-40	VALVE SLEEVE GASKET
41B	PRT2102-41	INSERTS RECOIL
42B	PRT2102-42	O-RING
43D	PRT2102-43	SQUARE RING
*	PRT2102-SK	SEAL KIT
*	PRT2102-HK	HARD KIT

PRT2102-SK CONTAINS ITEMS:

4, 15(X6), 20, 21C, 23, 28, 33, 34, 36, 36B, 39 & 42B

PRT2102-HK CONTAINS ITEMS: 5, 6, 8(X2), 9(X2) & 10