

## Notice

90% of all Air Tool problems are caused by  
*moisture* in air lines

This problem can be avoided by using Air Tool Lubricant  
(See "*Lubrication*" & "*Air Supply*" sections of this manual)

*FAILURE TO OIL* can void your warranty

## 1 Year Limited Warranty

These air tools are warranted to be free from defects in material and workmanship for 1 year from date of purchase. We will repair or replace at our option any defective part or unit which proves to be defective in material or workmanship during this 1 year period. The foregoing obligation is *MAC Tools* sole liability under this or any implied warranty, and under no circumstances shall it be liable for any incidental or consequential damages.

This warranty applies to the basic tool. It does not apply to normal wear and tear on attached accessories/consumable products such as drill chucks, backing pads for sanders, punch and die for nibblers, air hammer retainers, spray gun cups, or "*kit*" accessories, etc.

Naturally, repairs required by abuse, misuse, damage, or repair attempts are not covered by this warranty.



## "Mini" ½" Composite Twin Clutch Impact Wrench MODEL # AW284Q RED/ Composite

Operating Instructions, Warranty and parts list.

**IMPORTANT!** Read carefully before operating this tool. Failure to operate any power tool properly can result in personal injury and/or property damage!

### SPECIFICATIONS

Sound-----	86dBA	Square Drive-----	1/2"
Free Speed(RPM)-----	10,000	Max. Torque(Ft. Lbs)-----	700
Air Flow Pressure(PSI)-----	90	Working Torque-----	200-500
Hose Size(ID)-----	3/8"	Avg. Air Consumption.(cfm)-----	4
Air Inlet(NPT)-----	1/4"	Shipping Wt.(LBS)-----	2.7

### Safety

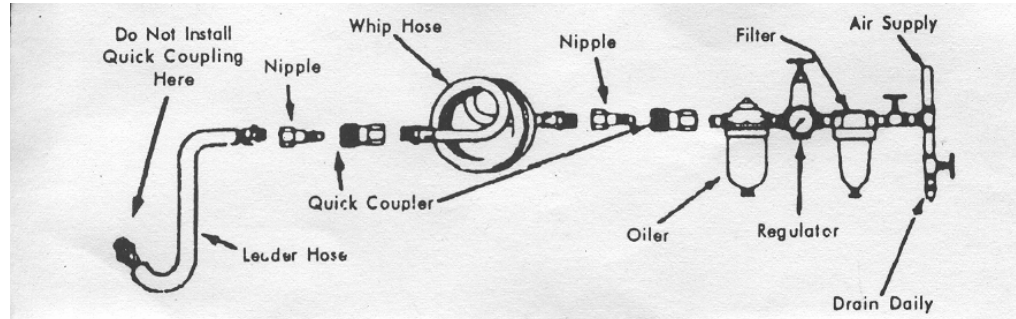
1. Always use impact type sockets that are designed for impact wrenches.
2. Never take any risks with your eyes. Always wear approved eye protection.
3. Have throttle in "off" position when connecting to air supply.
4. Disconnect tool before performing service, changing accessories and when not in use.
5. Always use tool a safe distance from other people in work area.
6. Maintain tools with care. Keep tools clean and oiled for best and safest performance. Follow instructions for lubricating and changing accessories. Wiping or cleaning rags and other flammable waste materials must be placed in a tightly closed metal container and disposed of later in the proper fashion.
7. Do not wear loose or ill fitting clothing; remove watches and rings.
8. 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, or between hose whip and leader hose.
9. Don't overreach. Keep proper footing and balance at all times.
10. Don't force tool. It will do the job better and safer at the rate of which it was designed.
11. Don't abuse hoses or connectors. Never carry tool by the hose or yank it to disconnect from power supply. Keep hoses from heat, oil, and sharp edges. Check hoses for weak or worn condition before each use, making certain that all connections are secure.

### Lubrication

Lubricate the tool daily with a good grade of air tool oil. If no air line oiler is used, run a teaspoon 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 the tool.

## Air Supply

Tools of this class operate on a wide range of air pressure. It is recommended that air pressure of these tools measures 90 PSI at the tool while running free. Higher pressure and unclean air will shorten the tool's life because of faster wear and may create a hazardous condition. 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. The recommended hookup procedure can be viewed in the illustration below.



The air inlet, used for connecting air supply, has standard 1/4" NPT American Thread.

Line pressure should be increased to compensate for unusually long air hoses (over 25 feet). Minimum hose diameter should be 3/8" I.D. and fittings should have the same inside dimensions.

## Operating Instructions

This impact wrench should never be used to set torque. Use a torque wrench to set the torque.

To remove nuts, set the regulator to the maximum setting. To install nuts, set the regulator to the minimum to medium setting. Do not over tighten the nuts.

**Warning :** Do not use hand tool sockets (chrome), use impact quality sockets only. Hand tool sockets (chrome) are glass hard and will shatter and cause serious personal injury if used with air tools.

**Warning :** Never trigger the tool when not applied to a work object. Attachments such as torque socket bars or extensions will reduce the life of the tool, however, if used, they must be securely attached. Loose attachments can cause serious injury.

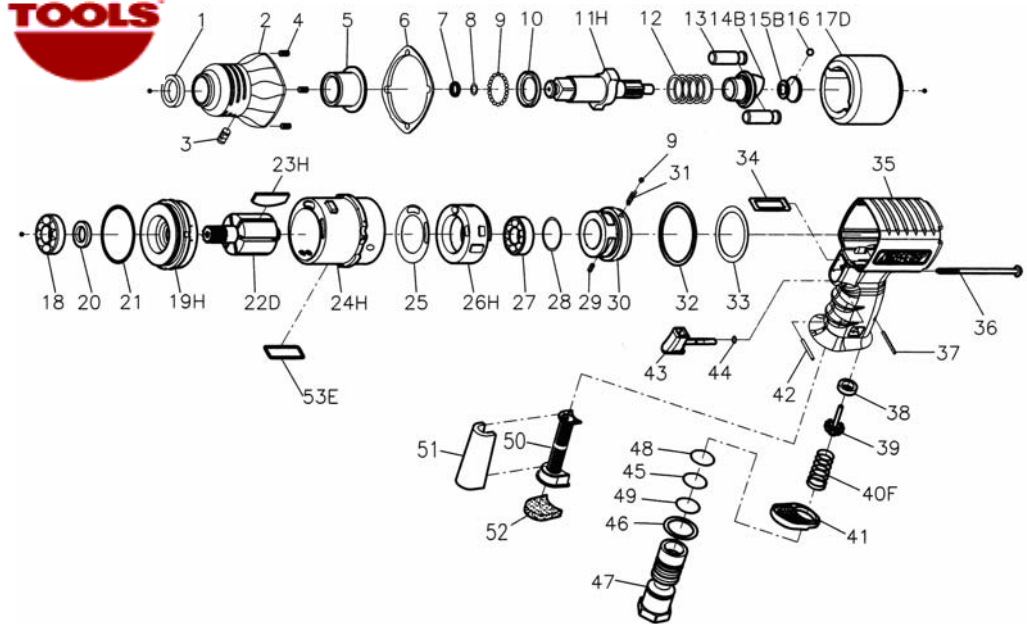
## Maintenance

Other factors outside the tool may cause loss of power or erratic action. Reduced compressor output, excessive drain on the air line, moisture or restriction in air pipes or the use of hose connections of improper size or poor condition may reduce air supply. Grit or gum deposits in the tool may cut power and may be corrected by cleaning the air strainer and flushing out the tool with gum solvent oil. If outside conditions are in order and tool is out-of-warranty, disconnect tool from hose, disassemble tool, replace worn or damaged parts, clean, reassemble, and re-lubricate, or take tool to any air tool service center. For tools in warranty period, send tool direct to MAC Tools Warranty Center.



## Mini 1/2" Composite Twin Clutch Impact Wrench

MODEL # AW284Q Red /Composite



Ref. No.	Part No.	Description	Qty	Ref. No.	Part No.	Description	Qty
1	SC601-01	Oil Seal	1	28	00-4158	O-Ring	1
2	243I-002	Hammer Case	1	29	SC100-12	Spring Pin	1
3	SC602-13	Set Screw	1	30	243F-021	Reverse Valve	1
4	00-4302	Inserts Recoil	4	31	305F-034	Spring	1
5	SC602-04	Anvil Bushing	1	32	243F-030	Rear Gasket	1
6	243H-020	Front Gasket	1	33	243F-031	Spacer	1
7	SC800-07	Anvil Collar	1	34	243F-019	Air Channel Gasket	1
8	SC800-08	O-Ring	1	35	243I-001MA	Motor Housing	1
9	SC100-15	Steel Ball	21	36	243H-028	Screw	4
10	243G-019	Washer	1	37	SC800-19	Spring Pin	1
11H	243G-011NA4	1/2" Anvil	1	38	SC200-30	Bushing	1
12	SC602-07	Spring	1	39	SC200-31	Valve Stem	1
13	SC602-08	Hammer Pin	2	40F	305F-026-B	Spring	1
14B	SC602-09	Cam	1	41	243H-021	Exhaust Deflector	1
15B	SC602-10	Cam Foundation	1	42	00-3346	Spring Pin	1
16	SC602-11	Steel Ball	1	43	243H-024	Trigger	1
17D	243K-012	Hammer Cage	1	44	SC100-23	O-Ring	1
18	SC601-16	Ball Bearing	1	45	SC100-28	O-Ring	1
19H	243F-005B	Front End Plate	1	46	SC100-29	Washer	1
20	SC601-18	Oil Seal	1	47	SC100-30	Air Inlet (18NPT)	1
21	00-4179	O-Ring	1	48	SC100-27	O-Ring	1
22D	243K-007	Rotor	1	49	SC100-31	O-Ring	1
23H	249-008	Rotor Blade	6	50	243H-019B	Muffler Tube	1
24H	243F-006B	Cylinder	1	51	243H-026	Muffler	1
25	243F-033	Valve Sleeve Gasket	1	52	243H-027	Muffler	1
26H	243F-029B	Valve Sleeve	1	53E	243F-041	Square Ring	1
27	SC601-25	Ball Bearing	1				