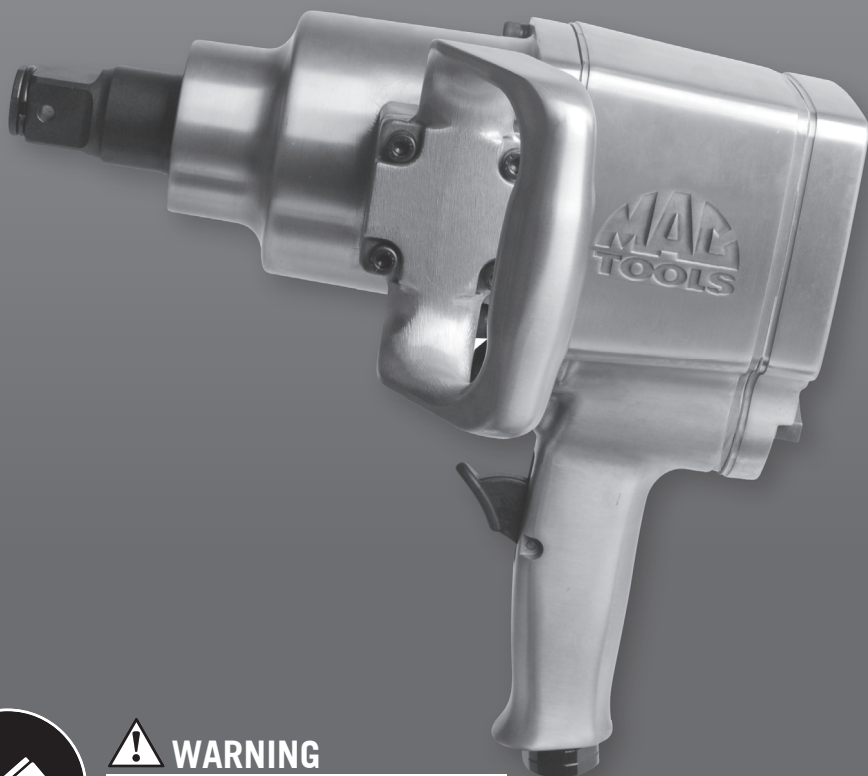




AWP599A

Operation and Maintenance Manual

☑ 1" AWP599A



WARNING

To reduce the risk of injury, read and understand these safety warnings and instructions before using the tool. Keep these instructions with the tool for future reference. If you have any questions, contact your **MAC TOOLS** representative or distributor.

1" Air Impact Wrench

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INTRODUCTION

The **Mac Tools™ AWP599A** is a precision-built tool, designed for professionals for high torque assembly and disassembly of threaded fasteners. This tool will deliver efficient, dependable service when used correctly and with care. As with any fine power tool, for best performance the manufacturer's instructions must be followed. Please study this manual before operating the tool and understand the safety warnings and instructions. The instructions on installation, operation and maintenance should be read carefully, and the manuals kept for reference. NOTE: Additional safety measures may be required because of your particular application of the tool. Contact your **Mac Tools** representative or distributor with any questions concerning the tool and its use.

Mac Tools
505 North Cleveland Avenue
Suite 200
Westerville, Ohio 43082

WARRANTY

We warrant that this tool shall be free from manufacturing defects for a period of ONE YEAR from the original purchase date. Our obligation to the original purchaser shall be limited to repairing or replacing, at our expense (not including shipping charges) a defective tool if returned by the original purchaser within one year from the date of purchase, all incoming shipping charges prepaid. THIS WARRANTY DOES NOT COVER DEFECTS OR DAMAGES TO THE TOOL (i) after the warranty period expires; (ii) resulting from misuse or abnormal operation; (iii) resulting from a failure to properly lubricate, maintain or operate the tool; or (iv) resulting from any repair or maintenance services performed by any party other than Mac Tools.



WARNING

IMPORTANT SAFETY INFORMATION ENCLOSED.
READ THIS MANUAL BEFORE OPERATING THE MACHINE.

FAILURE TO OBSERVE THE FOLLOWING WARNINGS COULD RESULT IN INJURY.



Do not use damaged, frayed or deteriorated air hoses and fittings.



Air powered tools can vibrate in use. Vibration, repetitive motions or uncomfortable positions may be harmful to your hands and arms. Stop using any tool if discomfort, tingling feeling or pain occurs. Seek medical advice before resuming use.



Do not carry the tool by the hose.



Keep body stance balanced and firm. Do not overreach when operating this tool.



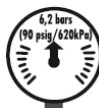
Always wear hearing protection when operating this tool.



Always turn off the air supply and disconnect the air supply hose before installing, removing or adjusting any accessory on this tool, or before performing any maintenance on this tool.



Always wear eye protection when operating or performing maintenance on this tool.



Operate at 90 psig (6.2 bar / 620 kPa) Maximum air pressure.

GENERAL SAFETY INSTRUCTIONS



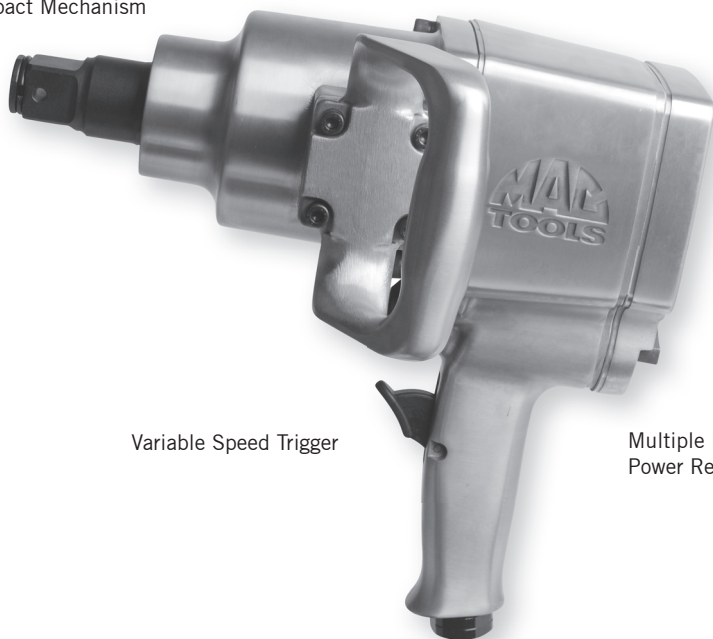
WARNING

- Always wear ANSI Z87.1 eye protection when operating or performing maintenance on this tool. Everyday eye glasses are not safety glasses
- Always wear hearing protection when operating this tool
- Keep hands, loose clothing and long hair away from rotating end of tool
- Anticipate and be alert for sudden changes in motion during start up and operation of any power tool
- Keep body stance balanced and firm. Do not overreach when operating this tool
- Do not operate this tool for long periods of time. Vibration caused by tool action may be harmful to your hands and arms. Stop using any tool if discomfort, tingling feeling or pain occurs. Seek medical advice before resuming use
- Use impact rated accessories recommended by **Mac Tools** only. Inspect accessories before use. Do not use cracked or damaged accessories
- Do not operate this tool in the presence of flammable liquids, gasses, dust, or explosive atmospheres
- This tool is not insulated against electric shock
- Always turn off the air supply and disconnect the air supply hose before installing, removing or adjusting any accessory on this tool, or before performing any maintenance on this tool
- For safety, top performance, and maximum durability of parts, operate this tool at 90 psig (6.2 bar / 620 kPa) maximum air pressure at the inlet with 3/4" (19mm) inside diameter air supply hose
- Do not use damaged, frayed or deteriorated air hoses and fittings
- Do not lubricate tools with flammable or volatile liquids such as kerosene, diesel or jet fuel
- Do not remove any labels. Replace any damaged label

SPECIFICATIONS

Twin-Hammer
Impact Mechanism

Aluminum 2-pc
Construction



Variable Speed Trigger

Multiple Position
Power Regulator

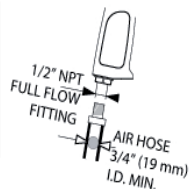
SPECIFICATIONS

Model #	Square Drive	Blow Rate	Breakaway Torque	Noise Level						Vibration Level	
				Pressure dB(A)		Power dB(A)		Pressure dB(C)		m/s ²	
AWP599A	1 in	720 bpm	3000 / 4068 ft-lbs / Nm	103.4	3*	114.4	3*	103.0	3*	16.7	2.15**

Model #	Free Speed	Average Air Consumption	Working Pressure	Weight	Dimensions	
					in / mm	
AWP599A	4400 rpm	8.6 / 243 cfm / l/min	90 / 6.2 psi / bar	22.7 / 10.3 lbs / kg	11.9 x 8.1 x 11.4 / 301 x 205 x 290	

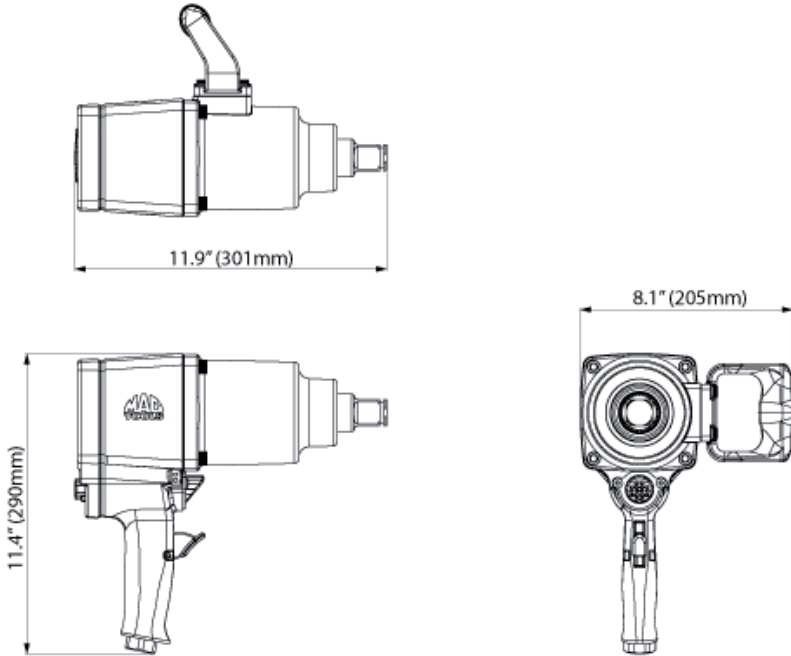
* = measurement uncertainty in dB(A)

** = measurement uncertainty in m/s²



GETTING STARTED

- Always operate, inspect and maintain this tool in accordance with all regulations (local, state, federal and country) that may apply to hand-held / hand-operated pneumatic tools
- Be sure all hoses and fittings are the correct size and are tightly secured
- Always use clean, dry air at 90 psig maximum air pressure. Dust, corrosive fumes and/or excessive moisture can ruin the motor of an air tool
- The use of a hose whip is recommended. A coupler connected directly to the air inlet increases tool bulk and decreases tool maneuverability
- For maximum performance, the coupler on the wall should be the next size larger than the coupler used on the tool. The coupler closest to the tool should not be less than the proper air supply hose size



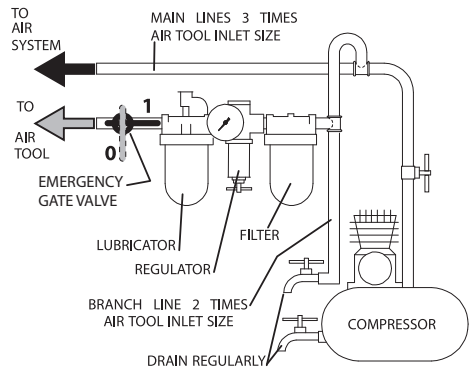
PLACING TOOL IN SERVICE

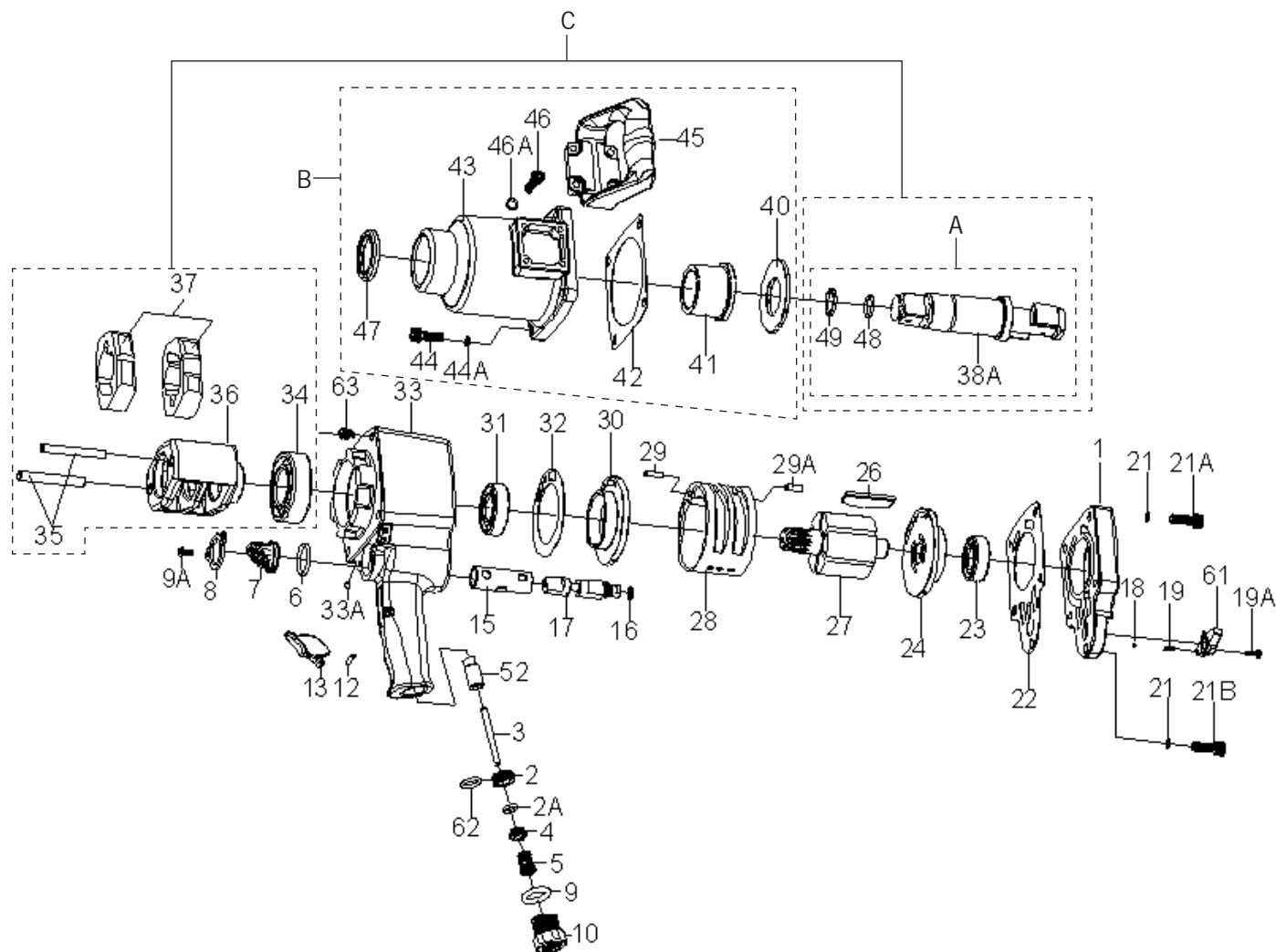
LUBRICATION



Always use an air line lubricator with this tool. After every eight hours of operation, if a lubricator is not used on the compressed air network, inject 1/2 to 1 cc of approved air tool oil (Mac Tools part #P032) through the tool's inlet connection.

After every forty-eight hours of operation, or as experience indicates, inject about 4 cc of approved pneumatic grease (Mac Tools part #PNG16) into the grease fitting.





ITEM #	PART #	DESCRIPTION	QTY	ITEM #	PART #	DESCRIPTION	QTY
	AWP599A	1" Super Duty Impact Wrench					
				1	31M200043	BACKHEAD	1
A	31D100020	ANVIL ASSEMBLY	1	2	31Y200050	THROTTLE VALVE SEAT	1
38A	31D200038	ANVIL	1	3	31R200171	THROTTLE VALVE PLUNGER	1
48	31R200192	O-RING	1	4	31Y200051	THROTTLE VALVE	1
49	31R200193	SOCKET RETAINER	1	7	31Y200052	EXHAUST DEFLECTOR	1
				8	31R200174	RETAINER	1
B	31H100015	HAMMER CASE ASSEMBLY	1	9A	31R200137	SCREW	2
40		WASHER	1	10	31Y200053	AIR INLET	1
41		BUSHING	1	12	31R200176	TRIGGER PIN	1
42		GASKET	1	13	31Y200054	TRIGGER	1
43		HAMMER CASE	1	17	31Y200055	REVERSE VALVE	1
44	31R100001	SCREW ASSEMBLY (INCLUDES 44A)	4	19A	31R200181	SCREW	1
44A		SPRING WASHER	4	27	31M200045	ROTOR	1
46	31R100003	SCREW ASSEMBLY (INCLUDES 46A)	4	28	31M200046	CYLINDER	1
46A		SPRING WASHER	4	29	31R200209	SPRING PIN	1
47		OIL SEAL	1	29A	31R200183	SPRING PIN	1
				45	31H200007	SIDE SPADE HANDLE	1
C	31D100021	IMPACT ASSEMBLY	1	61	31Y200056	REVERSE VALVE KNOB	1
35		HAMMER PIN	2				
36		HAMMER FRAME	1	TK	31M100014	TUNE UP KIT	
37		HAMMER	2	2A		O-RING	1
A	31D100020	ANVIL ASSEMBLY	1	5		SPRING	1
				6		O-RING	1
33	31H100005	HOUSING ASSEMBLY	1	9		O-RING	1
15		REVERSE VALVE BUSHING	1	16		O-RING	1
33A		STEEL BALL	4	18		STEEL BALL	1
52		BUSHING	1	19		SPRING	1
63		HELI-COIL	9	22		GASKET	1
				23		BALL BEARING	1
24	31M100008	REAR END PLATE ASSEMBLY	1	26		ROTOR BLADE	6
23		BALL BEARING	1	31		BALL BEARING	1
				32		GASKET	1
30	31M100010	FRONT END PLATE ASSEMBLY	1	34		BALL BEARING	1
31		BALL BEARING	1	42		GASKET	1
				48		O-RING	1
21A	31R100001	SCREW ASSEMBLY	1	49		SOCKET RETAINER	1
21		SPRING WASHER	4	62		O-RING	1
21B	31R100002	SCREW ASSEMBLY	1				
21		SPRING WASHER	1				



CUSTOMER SERVICE

We at Mac Tools are committed to our customers, please reference the following phone number for a direct contact to one of our customer technicians. They will be more than happy to help with any service or warranty questions you may have about your power tool.

Mac Tools
505 North Cleveland Avenue
Suite 200
Westerville, Ohio 43082
800.MACTOOLS
MACTOOLS.COM

CE DECLARATION OF CONFORMITY

WE, **MAC TOOLS**, 505 NORTH CLEVELAND AVENUE, SUITE 200 WESTERVILLE, OHIO 43082 DECLARE UNDER OUR OWN RESPONSIBILITY THAT THE PRODUCTS **AWP599A 1" AIR IMPACT WRENCH** - IS IN CONFORMITY WITH THE «MACHINERY» DIRECTIVE 2006/42/EC
- AND IS IN CONFORMITY WITH THE PROVISIONS OF THE FOLLOWING STANDARDS

ISO 12100:2010
ISO 11148-6:2012
ISO 15744:2002
ISO 28927-2:2009



A handwritten signature in black ink, appearing to read "Eric Min".

Eric Min
QUALITY DIRECTOR
23.12.2013