• Operating Instructions • Warning Information
• Parts Breakdown

MT1735

3/8" Composite Impact Wrench

SPECIFICATIONS

	MT1735
Maximum Free Speed	11,000 RPM
Working Torque	25-170 FT. LBS.
Maximum Torque	190 FT. LBS.
Air Inlet Thread	1/4" NPT
Air Hose Size	3/8" ID
Average Air Consumption	4.03 CFM
Recommended Air Pressure	90 PSIG (6.2 BAR)
Sound Level	97.7 dBA
Length	6.26"
Net Weight	2.38 LBS.

⚠WARNING

ALWAYS READ INSTRUCTIONS BEFORE USING POWER TOOLS

ALWAYS WEAR SAFETY GOGGLES

WEAR HEARING PROTECTION

AVOID PROLONGED EXPOSURE TO VIBRATION

⚠WARNING

Some dust created by power sanding, sawing, grinding, drilling, and other construction activities contains chemicals known to cause cancer, birth defects or other reproductive harm. Some examples of these chemicals are:

- **lead from lead-based paints,**
- **crystalline silica from bricks and cement and other masonry products, and**
- **arsenic and chromium from chemically-treated lumber.**

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

⚠WARNING

FAILURE TO OBSERVE THESE WARNINGS COULD RESULT IN INJURY

This Instruction Manual Contains Important Safety Information.

Read THIS INSTRUCTION MANUAL Carefully and understand ALL INFORMATION Before Operating THIS Tool.

- Always operate, inspect and maintain this tool in accordance with American National Standards Institute Safety Code of Portable Air Tools (ANSI B186.1) and any other applicable safety codes and regulations.
- For safety, top performance and maximum durability of parts, operate this tool at 90 psig/6.2 bar max air pressure with 3/8" diameter air supply hose.

- Always wear impact-resistant eye and face protection when operating or performing maintenance on this tool. Always wear hearing protection when using this tool.

- High sound levels can cause permanent hearing loss. Use hearing protection as recommended by your employer or OSHA regulation.
- Keep the tool in efficient operating condition.
- Operators and maintenance personnel must be physically able to handle the bulk, weight and power of this tool.

- Air under pressure can cause severe injury. Never direct air at yourself or others. Always turn off the air supply, drain hose of air pressure and detach tool from 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. Whip hoses can cause serious injury. Always check for damaged, frayed or loose hoses and fittings, and replace immediately. Do not use quick detach couplings at tool. See instructions for correct set-up.

- Air powered tools can vibrate in use. Vibration, repetitive motions or uncomfortable positions over extended periods of time may be harmful to your hands and arms. Discontinue use of tool if discomfort, tingling feeling or pain occurs. Seek medical advice before resuming use.
- Place the tool on the work before starting the tool. Do not point or indulge in any horseplay with this tool.

- Slipping, tripping and/or falling while operating air tools can be a major cause of serious injury or death. Be aware of excess hose left on the walking or work surface.
- Keep body working stance balanced and firm. Do not overreach when operating the tool.
- Anticipate and be alert for sudden changes in motion during start up and operation of any power tool.

- Do not carry tool by the hose. Protect the hose from sharp objects and heat.
- Tool shaft may continue to rotate briefly after throttle is released. Avoid direct contact with accessories during and after use. Gloves will reduce the risk of cuts or burns.

- Keep away from rotating end of tool. Do not wear jewelry or loose clothing. Secure long hair. Scalping can occur if hair is not kept away from tool and accessories. Choking can occur if neckwear is not kept away from tool and accessories.
- Never use a chisel as a handstruck tool. They are designed and heat treated to be used only in air hammers. Select the correct shank and retainer for the tool.
- Never use dull accessories. Never cool a hot accessory in water as brittleness and early failure can result. Accessory breakage or tool damage may result from prying. Take smaller bites to avoid getting stuck.
- Do not lubricate tools with flammable or volatile liquids such as kerosene, diesel or jet fuel.
- Do not force tool beyond its rated capacity.
- Do not remove any labels. Replace any damaged labels.
- Use accessories recommended by Matco Tools.

OPERATION

The reversing valve can be used as an air throttle, if there are no other means of regulating air. Turn the reversing valve all the way to the right for maximum power.

The reversing valve can be used to adjust torque to the approximate tightness of a known fastener.

To set the tool to desired torque, select a nut or screw of known tightness of the same size, thread pitch and thread condition as those on the job. Turn reversing valve to low position, apply wrench to nut and gradually increase power (turn regulator to admit more air) until nut moves slightly in the direction it was originally set. The tool is now set to duplicate that tightness - note regulator setting for future use. When tightening nuts not requiring critical torque values, run nut up flush and then tighten an additional one-quarter to one-half turn (slight additional turning is necessary if gaskets are being clamped). For additional power needed on disassembly work, turn regulator to its fully open position. This impact wrench is rated at 1/2" USS bolt size. Rating must be down graded for spring U bolts, tie bolts, long cap screws, double depth nuts, badly rusted conditions and spring fasteners as they absorb much of the impact power. When possible, clamp or wedge the bolt to prevent springback.

Soak rusted nuts in penetrating oil and break rust seal before removing with impact wrench. If nut does not start to move in three to five seconds use a larger size impact wrench. Do not use impact wrench beyond rated capacity as this will drastically reduce tool life.

FEATURES

- Extra fast pin clutch provides super power in a tool that weighs only 2.38 lbs.
- Matco exclusive composite back housing with comfort grip and super light magnesium front housing, produce a great feeling and very durable tool.
- Rear housing forward reverse valve for easy one hand operation.
- Built in regulator system on forward reverse valve provides unmatched versatility.
- Bottom handle exhaust to direct air away from the work.

AIR SUPPLY

Tools of this class operate on a wide range of air pressures. 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 tool 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 hook-up procedure can be viewed in Figure 1.

The air inlet (Figure 2), 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.

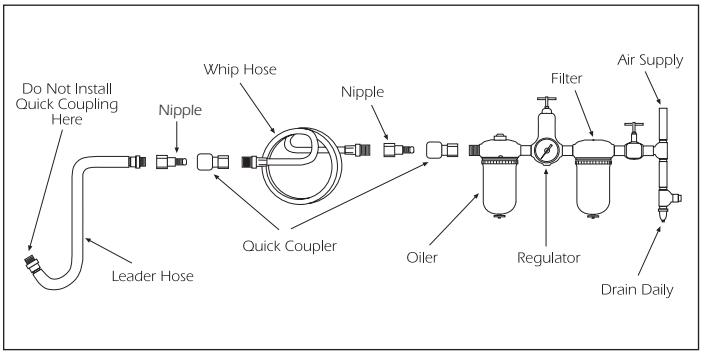

FIG. 1

TROUBLESHOOTING

Other factors outside the tool may cause loss of power or erratic action. Reduced compressor output, excessive drain on the air line, moisture or restrictions in air pipes or the use of hose connections of improper size or poor conditions may reduce air supply. If outside conditions are in order and the tool still has erratic performance, disconnect tool from hose and take tool to your nearest Matco authorized service center.

LUBRICATION & MAINTENANCE

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 Figure 2, or into the hose at the nearest connection to the air supply, then run the tool. A rust inhibitive oil is acceptable for air tools.

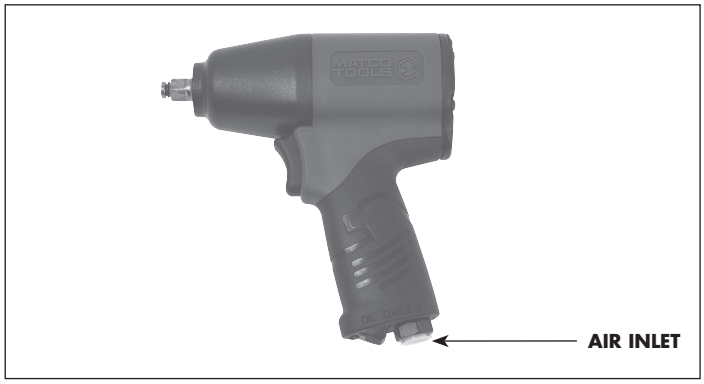

FIG. 2

WARRANTY

Matco warrants its air tools for a period of 1 year to the consumer. We will repair any MT Series air tool covered under this warranty which proves to be defective in material or workmanship during the warranty period. In order to have your tool repaired, return the tool to either of the Matco Authorized Warranty Centers listed below, freight prepaid. Please include a copy of your proof of purchase and a brief description of the problem. The tool will be inspected and if any part or parts are found to be defective in material or workmanship, the tool will be repaired free of charge and returned to you freight prepaid.

This warranty gives you specific rights. You may also have other rights which vary from state to state.

The foregoing obligation is Matco's sole liability under this or any implied warranty and under no circumstances shall Matco be liable for any incidental or consequential damages.

Note: Some states do not allow the exclusion or limitation of incidental or consequential damages so the above limitation or exclusion may not apply to you.

MATCO AIR COMMAND
Tool Repair SV
1330 Commerce Dr.
Stow, OH 44224
(800) 433-7098

DISCOUNT TOOL REPAIR
3433 Losee Rd. #1
North Las Vegas, NV 89030
(702) 657-6570

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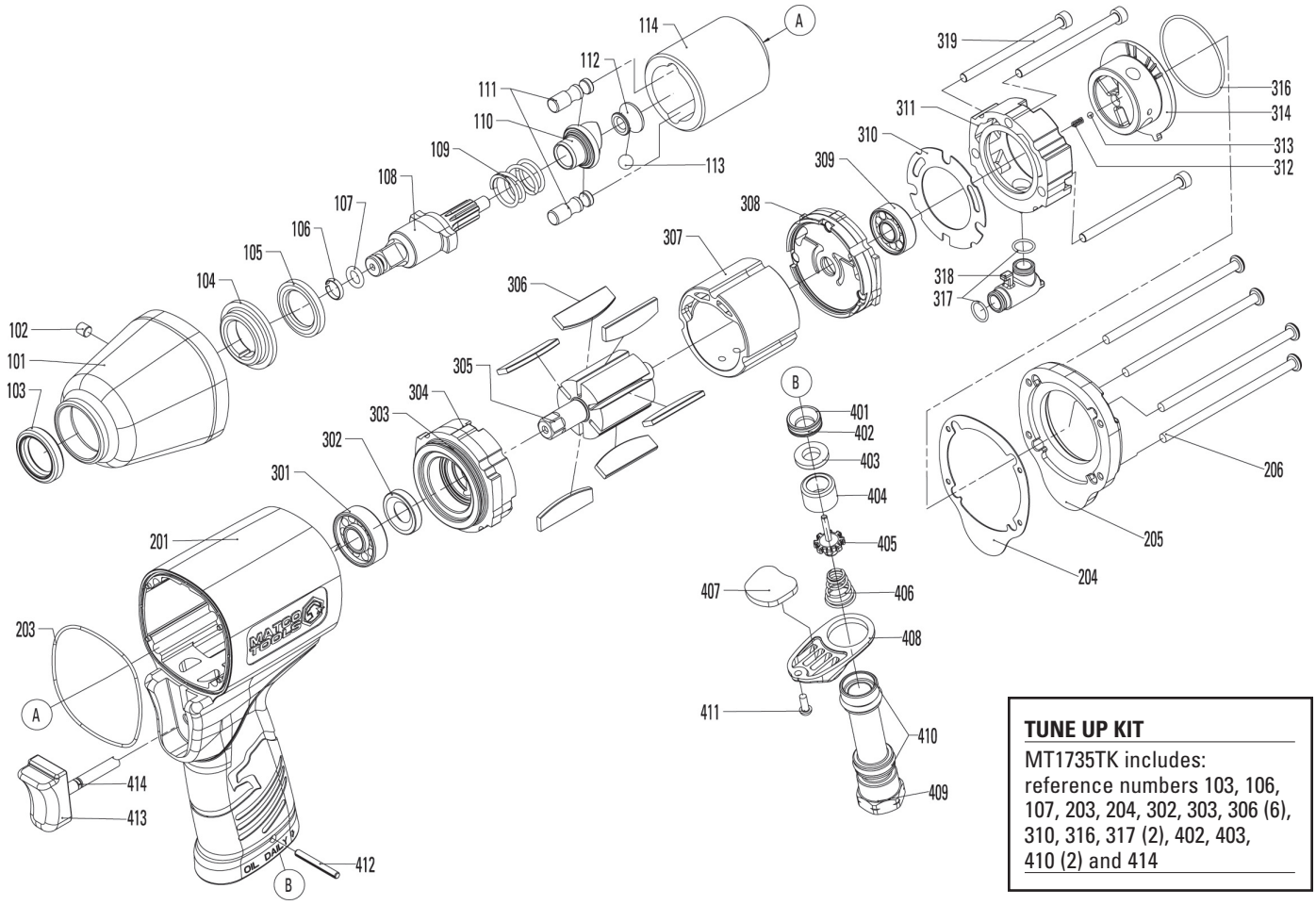

TUNE UP KIT

MT1735TK includes: reference numbers 103, 106, 107, 203, 204, 302, 303, 306 (6), 310, 316, 317 (2), 402, 403, 410 (2) and 414

REF. NO.	PART NO.	DESCRIPTION	QTY.
101	RS1735101	Hammer Case	1
102	RS1735102	Hex Socket Heavy Duty Screw	1
103	RS1735103	Oil Seal	1
104	RS1735104	Hammer Cage Bushing	1
105	RS1735105	Washer	1
106	RS1734201	Socket Retainer	1
107	RS1735107	O-Ring	1
108	RS1735108	Anvil	1
109	RS1735109	Spring	1
110	RS1735110	Hammer Cam	1
111	RS1735111	Hammer Pin	2
112	RS1735112	Cam Pilot	1
113	RS1735113	Ball	1
114	RS1735114	Hammer Frame	1
201	RS1735201A	Housing (incl. #412, 413 and 414)	1
203	RS1735203	Packing	1
204	RS1735204	Rear Cover Gasket	1
205	RS1735205	Rear Cover	1
206	RS1735206	Star Head Bolt	4
301	RS10920	Bearing	1
302	RS1735302	Sealing	1
303	RS1734304	O-Ring	1
304	RS1735304	Front End Plate	1
305	RS1735305	Rotor	1
306	RS1735306	Blades	6
307	RS1735307	Cylinder	1

REF. NO.	PART NO.	DESCRIPTION	QTY.
308	RS1735308	Rear End Plate	1
309	RS30524	Bearing	1
310	RS1735310	Rear End Plate Gasket	1
311	RS1735311	Regulator Base	1
312	RS1735312	Spring	1
313	RS1735313	Ball	1
314	RS1735314	Reverse Valve	1
316	RS1735316	O-Ring	1
317	RS1734414	O-Ring	2
318	RS1735318	Inlet	1
319	RS1735319	Hex Socket Heavy Duty Bolt	3
401	RS1735401	Insert Bushing	1
402	RS1735402	O-Ring	1
403	RS1735403	Seal	1
404	RS1735404	Bushing	1
405	RS1735405	Tip Valve	1
406	RS1735406	Spring	1
407	RS1735407	Muffler	1
408	RS1735408	Exhaust Deflector	1
409	RS1735409	Air Inlet	1
410	RS1735410	O-Ring	2
411	RS1735411	Tap Bolt	1
412	RS1735412	Spring Pin	1
413	RS400413	Trigger (8mm pin)	1
414	RS400414	O-Ring	1