TOTAL

One-Stop Tools Station

1″ AIR IMPACT WRENCH

TAT40111

INDUSTRIAL

totaltoolsworld

TOTAL TOOLS WORLD

3100N.m

Technical Data

Square drive……1″(25.4mm)
Free speed……3600/min
Max torque……2220ft/lb(3100N.m)
Operating pressure……90psi(6.3bar)
Air inlet size……1/2″
Air hose size…….....5/8″
Weight……20.5kgs

Important Safety Rules

1. Follow all workshop safety rules, regulations, and conditions when using wrench.
2. Do not wear watches, rings bracelets or loose clothing when using air tools.
3. **WARNING!** Disconnect from air supply before changing accessories or servicing.
4. Maintain the wrench in good condition and replace any damaged or worn parts. Use genuine parts only. Non-authorised parts may be dangerous.
5. **WARNING!** Check correct air pressure is maintained and not exceeded. We recommend 90psi.
6. Keep air hose away from heat, oil and sharp edges. Check air hose for wear before each use and ensure that all connections are secure.
7. Only use impact sockets which are specifically designed for use with an impact wrench.
8. Wear approved safety eye/face shield, ear defenders, and hand protection.
9. **WARNING!** Due to the possible presence of asbestos dust from brake linings, when working around vehicle brake systems we recommend you wear suitable respiratory protection.
10. Maintain correct balance and footing. Ensure the floor is not slippery and wear non-slip shoes.
11. Keep children and non essential persons away from the working area.
12. DO NOT use the wrench for a task it is not designed to perform.
13. DO NOT use wrench if damaged or thought to be faulty.
14. DO NOT use wrench unless you have been instructed in its use by a qualified person.
15. DO NOT carry the wrench by the air hose at yourself or others.
16. DO NOT direct air from the air hose at yourself or others.
17. When not in use disconnect from air supply and store in a safe, dry, childproof location.

Operating Instruction

Description

1600ft-lbs. of maximum torque output for removal of truck, bus work and heavy equipment bolts. Tapered nose for access in restricted areas. Extended anvil to reach into deep tire wells for lug nut removal. One side handle for more control during operation. 1" impact wrench is designed for removal of truck, bus work, truck repair professional, heavy equipment bolts and farm equipment. Side exhaust.

Air supply

1. Ensure wrench air valve (or trigger) is in the “off” position before connecting to the air supply.
2. It will require air pressure of 90psi, and air flow according to specification.

3. **WARNING!** Ensure the air supply is clean and does not exceed 90psi while operating the wrench. Too high an air pressure and unclean air will shorten the product life due to excessive wear, and may be dangerous causing damage or personal injury.
4. Drain the air tank daily. Water in the air line will damage the wrench.
5. Clean air inlet filter weekly.
6. Line pressure should be increased to compensate for unusually long air hoses (over 8 metres). The hose diameter should be 5/8" I.D.
7. Keep hose away from heat, oil and sharp edges. Check hose for wear, and make certain that all connections are secure.

Lubrication

An automatic in-line filter-regulator-lubricator is recommended (Fig4) as it increases tool life and keeps the tool in sustained operation. The in-line lubricator should be regularly checked and filled with air tool oil.
Proper adjustment of the in-line lubricator is performed by placing a sheet of paper next to the exhaust ports and holding the throttle open approximately 30 seconds. The lubricator is properly set when a light stain of oil collects on the paper. Excessive amounts of oil should be avoided.

In the event that it becomes necessary to store the tool for an extended period of time (overnight, weekend, etc.), it should receive a generous amount of lubrication at that time. The tool should be run for approximately 30 seconds to ensure oil has been evenly distributed throughout the tool. The tool should be stored in a clean and dry environment.

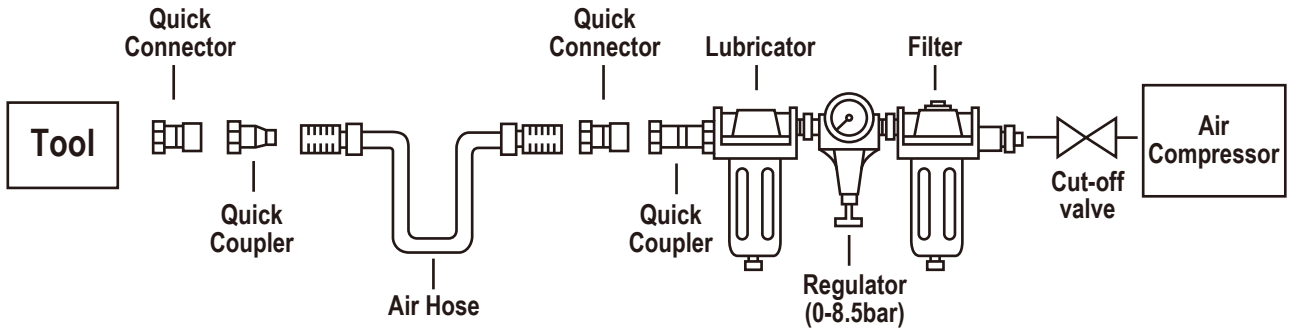
- It is most important that the tool be properly lubricated by keeping the air line lubricator filled and correctly adjusted. Without proper lubrication the tool will not work properly and parts will wear prematurely.

- Use the proper lubricant in the air line lubricator. The lubricator should be of low air flow or changing air flow type, and should be kept filled to the correct level. Use only recommended lubricants, specially made for pneumatic applications. Substitutes may harm the rubber compounds in the tools, O-rings and other rubber parts.

IMPORTANT!!!

If a filter/regulator/lubricator is not installed on the air system, air operated tools should be lubricated at least once a day or after 2 hours work with 2 to 6 drops of oil, depending on the work environment, directly through the male fitting in the tool housing.

Fig 4.



Loading and operation

☞WARNING: Ensure you read, understand and apply safety instructions before use.

1. Only use impact sockets which are specifically designed for use with impact wrench.
2. Connect the wrench to the air hose .
3. Place the socket over the subject nut and depress the trigger to operate the wrench.
4. To change direction push the button at the top of the handle. Direction of .R. for reverse and “F” for forward
5. The flow of air may be regulated by adjusting flow valve at the base of the handle.

DO NOT use any additional force upon the wrench in order to remove a nut.

DO NOT allow wrench to free run for an extended period of time as this will shorten its life.

Maintenance

☞WARNING: Disconnect wrench from air supply before changing accessories, servicing or performing maintenance. Replace or repair damaged parts. *Use genuine parts only. Non-authorised parts may be dangerous.*

1. Lubricate the air wrench daily with a few drops of air tool oil dripped into the air inlet

2 DO NOT use worn, or damaged sockets.

3. Loss of power or erratic action may be due to the following:

a) Excessive drain on the air line. Moisture or restriction in the air pipe. Incorrect size or type of hose connectors. To remedy check the air supply and follow instructions.

b) Grit or gum deposits in the wrench may also reduce performance. If your model has an air strainer (located in the area of the air inlet), remove the strainer and clean it.

4. When not in use, disconnect from air supply, clean wrench and store in a safe, dry, childproof location.

Trouble Shooting

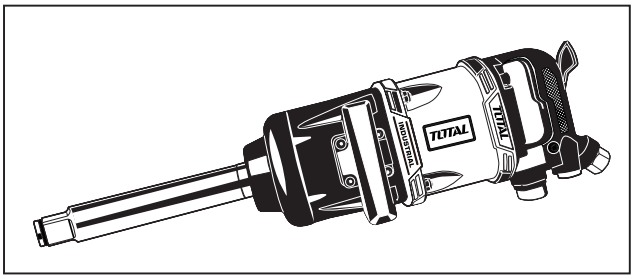
The following form lists the common operating system with problem and solutions. Please read the form carefully and follow it.

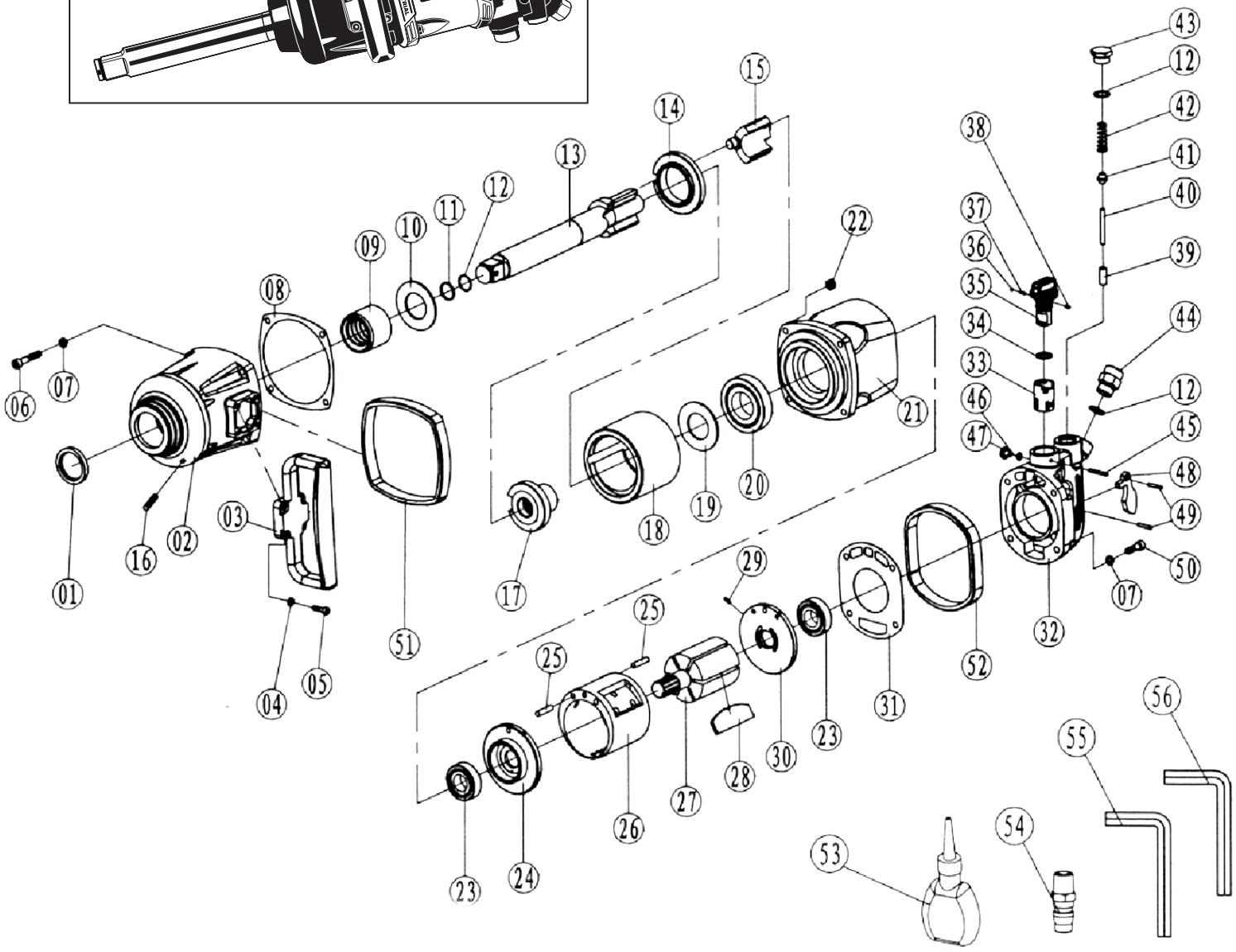
☞WARNING: If any of the following symptoms appears during your operating, stop using the tool immediately, or serious personal injury could result. Only a qualified persons or an authorized service center can perform repairs or replacement of tool.

Disconnect tool from air supply before attempting repair or adjustment. When replacing O-rings or Cylinder, lubricate with air tool oil before assembly.

PROBLEMS	POSSIBLE CAUSES	REMEDIES
Tool runs at normal speed but loses under load	▪ Motor parts worn. ▪ Cam clutch worn or sticking due to lack of lubricant.	▪ Lubricating clutch housing. ■ Check for excess clutch oil. Clutch cases need only be half full. Overfilling can cause drag on high speed clutch parts, ie. a typical oiled/lubricated wrench requires 1⁄2 ounce of oil. **GREASE LUBRICATED:NOTE:** Heat usually indicates insufficient grease in chamber. Severe operating conditions may require more frequent lubrication.
Tool runs slowly. Air flows slightly from exhaust	▪Motor parts jammed with dirt particles ■ Power regulator in closed position ■ Air flow blocked by dirt.	▪ Check air inlet filter for blockage. ▪Pour air tool lubricating oil into air inlet as per instructions. ▪ Operate tool in short bursts quickly reversing rotation back and forth where applicable. ▪Repeat above as needed.
Tools will not run. Air flows freely from exhaust	■ One or more motor vanes stuck due to material build up.	■ Pour air tool lubricating tool into air inlet. ■ Operate tool in short bursts of forward and/or reverse rotation where applicable. ■ Tap motor housing gently with plastic mallet. ■ Disconnect supply. Free motor by rotating drive shank manually where applicable
Tool will not shut off	■ ‘O’ rings throttle valve dislodged from seat inlet valve.	■ Replace ‘O’ ring.
Note: Repairs should be carried out by a qualified person.		

TAT40111 Exploded view





TAT40111 Spare part list

No.	Part Description	Qty	No.	Part Description	Qty
1	oil seal	1	29	Pin 4*10	1
2	Casing head	1	30	Cylinder back Cover	1
3	Carrying handle	1	31	back paper pad	1
4	Spring Washer 6	4	32	Closed cover	1
5	Bolt M6*22	4	33	value cover	1
6	Bolt M8*45	4	34	O-ring 17*2.65	1
7	Spring Washer 8	8	35	otary controller	1
8	front paper pad	1	36	steel ball φ4	1
9	bush	1	37	spring	1
10	front gasket	1	38	Pin3*7	1
11	Overhand volume	1	39	copper cover	1
12	O-ring 18*2.65	2	40	Valve pin	1
13	Crank shaft	1	41	air intake plug	1
14	locating ring	1	42	air intake spring	1
15	hammering block	1	43	chock plug	1
16	Bolt M8*12	1	44	Air Inlet Plug	1
17	cam	1	45	Pin 4*32	1
18	Hammering chamber	1	46	O-ring 7*1.8	1
19	back gasket	1	47	Bolt M8*8	1
20	bearing 6208 2RS	1	48	trigger	1
21	Housing	1	49	Pin 4*24	2
22	NUT M8	4	50	Bolt M8*30	4
23	bearing 6205	2	51	front sheath	1
24	Cylinder Cover	1	52	back sheath	1
25	Pin 6*22	2	53	oiler	1
26	Cylinder	1	54	rat tail joint	1
27	Rotor assembly	1	55	allen wrench M6	1
28	Rotor Blade	6	56	allen wrench M8	1

TOTAL

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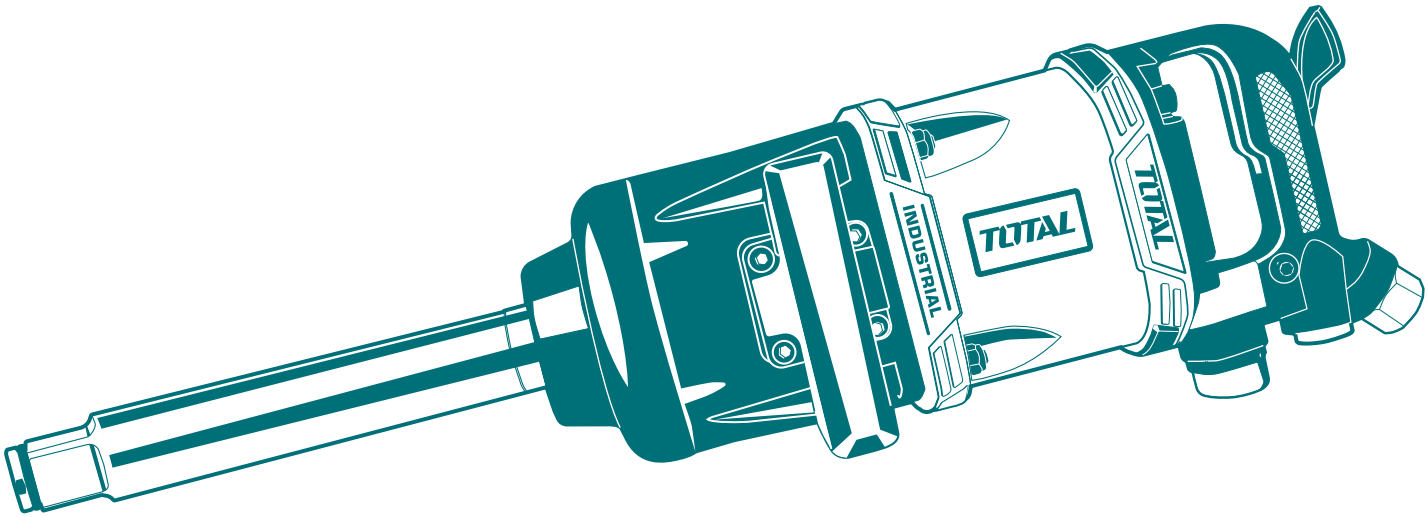

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TOTAL TOOLS CO., PTE. LTD.
MADE IN CHINA
T0919.V06

3100N.m