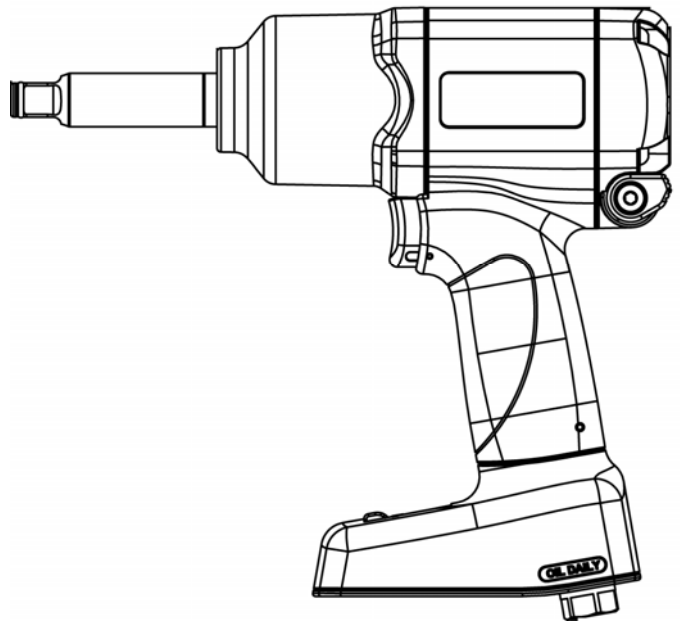
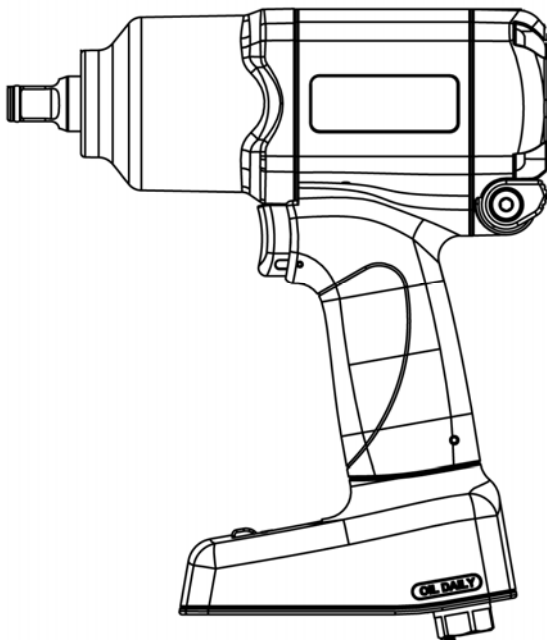




Operation Manual



NeuTorq®

OPERATING INSTRUCTIONS

SAFETY

IMPORTANT: DO NOT OPERATE THE TOOL BEFORE READING THESE INSTRUCTIONS. FAILURE TO DO SO MAY RESULT IN PERSONAL INJURY OR DAMAGE TO THE TOOL.

- This tool is intended for use with threaded fasteners.
- The use of ear & eye protectors is recommended.
- Do not use these tools in potentially explosive atmosphere as they contain grease, which may cause an explosion hazard in the presence of pure oxygen.
- These tools also contain aluminum alloy components which may cause a hazard in certain explosive environments.
- Keep hands away from tool output.
- Keep loose clothing, hair, etc. from being caught in any rotating part of the tool.
- Ensure all hoses are correctly fitted before switching on the mains air supply. This avoids the risk of injury by whipping air hoses.
- Unexpected direction of drive square movement can cause a hazardous situation.
- Use only impact sockets and adaptors which are in good condition and are intended for use with power tools.
- NeuTorq® Wrenches are impacting, torque-controlled tightening tools and must always be operated with the following: -
 1. Clean & dry air supply with a minimum flow of 19 L/sec (40 SCFM)
 2. Impact sockets
 3. Working Pressure : 6.2 Bar (90 PSI)
 4. 10 mm (3/8") ID air supply hose

INTRODUCTION

- The NeuTorq® tools are air driven power tools designed for applying torque to threaded fasteners.
- Tightening Torque Setting : 90 / 110 / 135 / 160 Nm (65 / 80 / 100 / 118 ft-lb)

FEATURES AND FUNCTIONS

AIR MOTOR

* The durable design of air motor provides long service life.

TRIGGER

* The trigger controls the air flow. The more the trigger is pressed down, the more air flows into the tool. This allows for slow positioning of socket. Once positioning is complete, the trigger must be fully pressed for correct torque application.

IMPACT

* For quick change for wheel bolts & nuts

DIRECTION

* Easy change of direction bar for forward and reverse. Maximum reverse power 880 Nm (650 ft-lb) for bolt loose

CONNECTING AIR SUPPLY

WARNING: TO AVOID HAZARD FROM WHIPPING AIR HOSES, MAKE SURE OF WELL CONNECTIONS TO THE TOOL BEFORE TURNING ON THE AIR SUPPLY.

1. Make sure all hoses are clean, in good condition and free from dirt / water.
2. Connect to the main air supply using a minimum hose size of 3/8" bore (10 mm). Avoid using 3/8" bore hoses of longer than 10 meters from the supply to tool as this will reduce the performance of the tool.
3. Turn on air supply and check for air leaks.

TORQUE DIGITAL GAUGE

DISPLAY

- The display shows an accurate reading of the torque applied.

MEANING of SIGNAL LAMP

* The consistency of Pre-set Torque and Actual Torque Displayed depends on

- 3 factors :**
- (1). Constant air supply at 6.2 Bar (90 PSI)
 - (2). Constant air flow at 19 L / sec. (40 SCFM)
 - (3). Release the trigger once the indicator light turns green.

* Working Torque Range : 75 ~ 178 Nm (55 ~ 131 ft-lb). While it is out of range, the indicator light will turn red. Please check for above 3 factors.

* When the tightening torque is below 60 Nm (44 ft-lb), it shows red signal and "---". Please check for above 3 factors.

* If the displayed torque can not fit your needs, please check for above 3 factors.



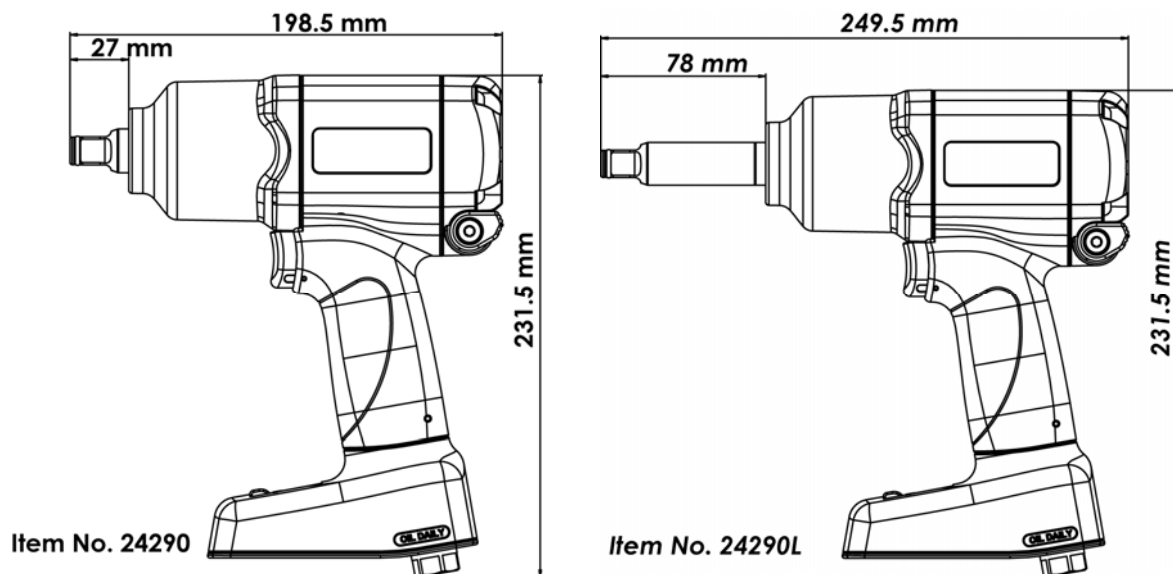
Instruction for Digital Display

1. Press the button to turn on or turn off the digital meter.
2. Press the button longer to convert Nm and ft-lb.
3. Please replace the batteries while the "Lob" is displayed.

TIP : The operator can take steps to reduce the amount of maintenance required.

1. Use the tool in a clean environment.
2. Use an air compressor fitted with a dryer.

Figure 2 – Tool Dimensions



SPECIFICATIONS

- * Accuracy of Displayed Value : $\pm 10\%$
- * Working Pressure : 6.2 Bar (90 PSI)
- * Working Torque Range : 75 ~ 178 Nm (55 ~ 131 ft-lb)
- * Temperature Range: 0 ~ 45 °C (operating)

OPERATION PROCESS

1. Torque Range Selection
2. Tightening
3. Release the trigger once the indicator light turns on.
4. Check the torque value.

MAINTENANCE

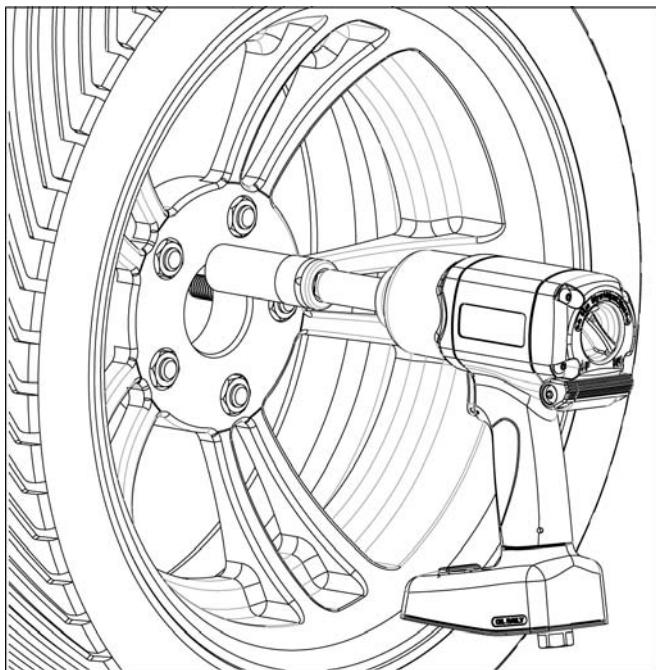
All maintenance and repair should be carried out by Pneutrend or Pneutrend distributor. Maintenance intervals will depend on the tool usage and the environment in which it is being used.

Environment: Stored in a clean & dry environment

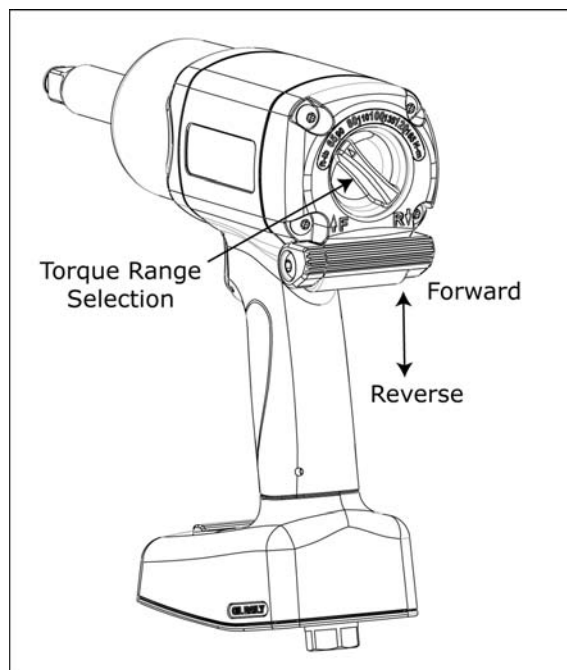
Due to our continuous improvement, all specifications are subject to change without prior notice.

SUPPLEMENTARY INFORMATION

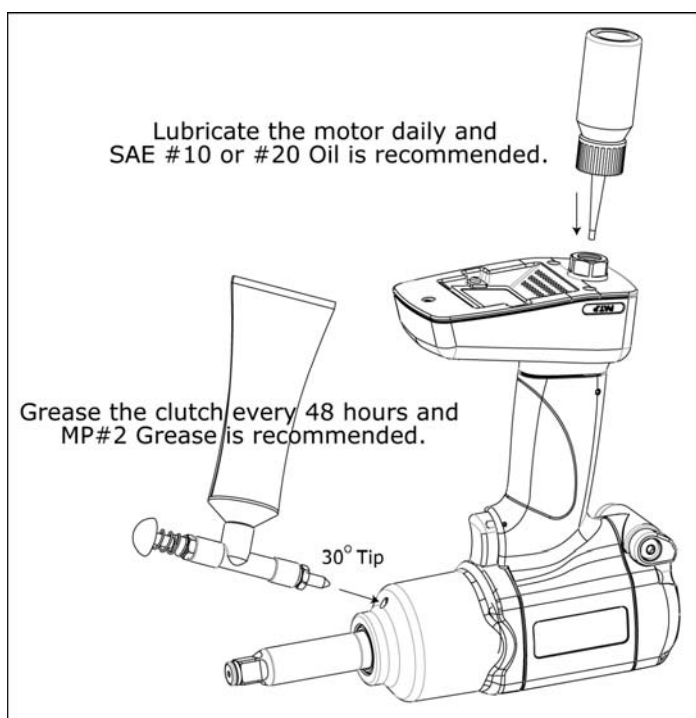
1. Tightening or Loosing



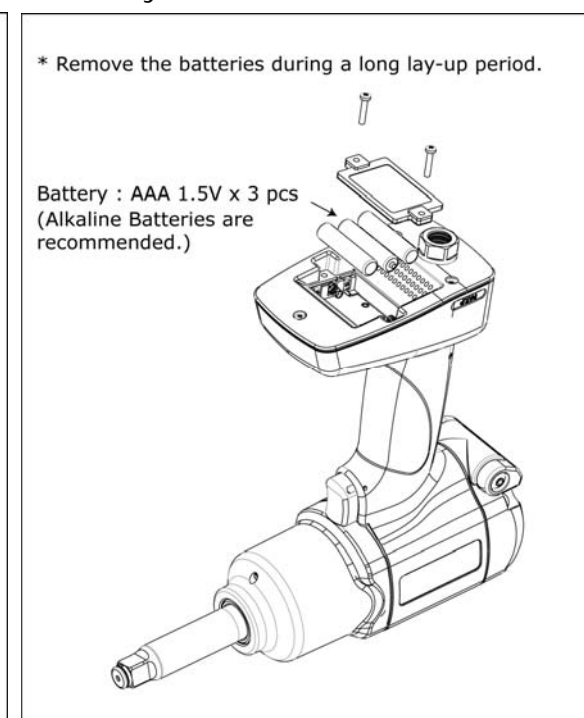
2. Easy Change Direction Bar



3. Lubrication



4. Battery



Safety Information

- Before using this tool, all operators must be fully trained in its use and be aware of these safety rules.
- As soon as the green indicator light illuminates, stop tightening the lug nut immediately to avoid the wheel stud be stretched or fractured or brake components be damaged.
- Do not exceed the maximum working air pressure of 90 PSI/6.2 bar .
- Use personal safety equipment.
- Use only compressed air at the recommended conditions.
- If the tool appears to malfunction, remove from use immediately and arrange for service and repair.

- If the tool is used with a balancer or other support device, ensure that it is securely fixed.
- Always keep hands away from the working attachment fitted to the tool.
- The tool is not electrically insulated. Never use the tool if there is any chance of coming into contact with live electricity.
- When using the tool, always adopt a firm footing and/ or position and grip the tool firmly to be able to counteract any forces or reaction forces that may be generated whilst using the tool.
- Use only correct spare parts. Do not improvise or make temporary repairs.

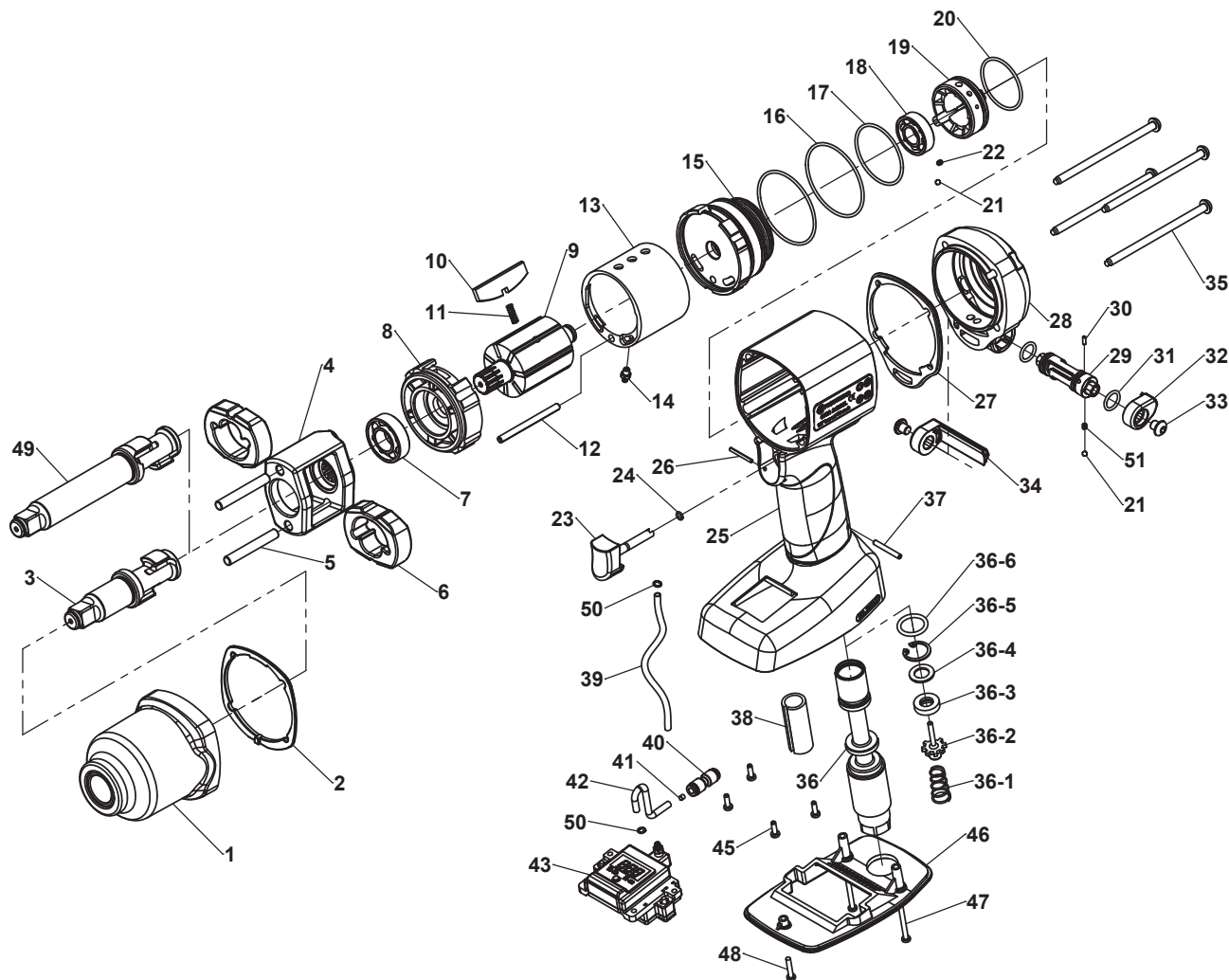
- Do not lock tape, wire, etc. the on/off valve in the run position. The trigger/lever etc. must always be free to return to the 'off' position when it is released.
- Always shut off the air supply to the tool, and depress the trigger/lever etc. to exhaust air from the feed hose before fitting, adjusting or removing the working attachment.
- Check hose and fittings regularly for wear. Replace them if necessary. Do not carry the tool by its hose and always ensure the hand is well away from the on/ off control when carrying the tool with the air supply connected.
- Take care against entanglement of moving parts of the tool with clothing, ties, hair, cleaning rags, etc. This will cause the body to be drawn towards the tool and can be very dangerous.
- Do not install the tool unless an easily accessible and easily operable on/ off valve is incorporated in the air supply.
- Take care that the tool exhaust air does not cause a problem or blows on another person.
- Never lay a tool down unless the working attachment has stopped moving.
- Always ensure that the reverse button is in the selected position before starting the tool.

- Do not use sockets with excessive wear to the input and output drives.
- Periodically check the square drive on the impact wrench.
- Make sure the socket, extension is firmly fixed to the tool.
- When loosening fasteners, first ensure that there is sufficient clearance behind the tool to avoid hand entrapment. The tool will move away from the threaded joint as the nut/bolt is loosened and rides up in the thread moving the tool with it.
- It is expected that users will adopt safe working practices and observe all relevant legal requirements when installing, using or maintaining the tool.

Proper Use Of The Tool

- The tool is designed to be used only for the purpose of driving, tightening and loosening of threaded fasteners, usually nuts and bolts, when fitted with a suitable drive socket.
- It is allowed to use impact-rated extension bars, universal joints and socket adapters between the square output drive of the ratchet wrench and the female square drive of the socket.
- Do not use the tool for any other purpose than that specified without consulting the manufacturer or the manufacturer's authorized supplier as this may be dangerous.
- Never use the tool as a hammer to dislodge or straighten cross threaded fasteners.

Technical Details	Speed RPM	Square Drive	Max. Torque Nm/ft-lb	Length mm/inch	Weight kg/lb	Air Consumption LPM / CFM	Air Inlet inch	Noise (DB) LpA LwA	Uncertainty(DB) KpA KwA	Vibration m/s ²	Working Pressure Bar / PSI
24290	7,500	1/2	880 (650)	197 (7.8)	2.6 (5.7)	132 (4.6)	1/4	95.5 106.5	3	6.23	6.2(90)
24290L				248 (9.8)	2.7 (5.9)					7.22	



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Index No.	Description	Quantity	Index No.	Description	Quantity	Index No.	Description	Quantity
01	Front Casing Set	1	20	O-Ring	1	36-3	Seal	1
02	Packing	1	21	Steel Ball	2	36-4	Washer	1
03	Anvil Set for 24290	1	22	Spring	1	36-5	Retaining Ring	1
04	Hammer Cage	1	23	Trigger	1	36-6	O-Ring	1
05	Hammer Pin	2	24	O-Ring	1	37	Spring Pin	1
06	Hammer	2	25	Housing	1	38	Muffler	1
07	Ball Bearing	1	26	Spring Pin	1	39	Tube	1
08	Front Plate	1	27	Packing	1	40	Quick Joint	1
09	Rotor	1	28	Cover	1	41	Filter	1
10	Rotor Blade	7	29	For. / Rev. Director	1	42	Tube	1
11	Spring	7	30	Pin	1	43	Digital Gauge Asses.	1
12	Spring pin	1	31	O-Ring	2	44	3A Battery	3
13	Cylinder	1	32	Knob	1	45	Screw	4
14	Adaptor	1	33	Screw	2	46	Cover	1
15	Rear Plate	1	34	Knob	1	47	Screw	2
16	O-Ring	2	35	Screw	4	48	Screw	1
17	O-Ring	1	36	Air Inlet w/preset	1	49	2" Anvil Set for 24290L	1
18	Ball Bearing	1	36-1	Spring	1	50	Clip Ring	2
19	Regulator Knob	1	36-2	Pin Valve Rod	1	51	Spring	1