

— THE —  
**TORQUE GUN™**  
— COMPANY —



**THRILL™**

**OPERATIONAL AND SPARE PARTS MANUAL**

**THANK YOU FOR PURCHASING THIS REVOLUTIONARY TORQUE/TENSION SYSTEM  
PLEASE CALL YOUR HYTORC REPRESENTATIVE TO SCHEDULE A FREE TRAINING THAT WILL  
HELP YOU GET THE MOST OUT OF THIS ADVANCED BOLTING SYSTEM.**

**OPERATING CD:** Please show the enclosed CD to your staff before each tool use to familiarize them with the tools.

**FREE SAFETY TRAINING:** To ensure safe operation, please request the FREE Safety Training before use by calling your local HYTORC Representative 1-800-367-4986 or [www.hytorc.com](http://www.hytorc.com). We recommend safety training every 6 months. These trainings are free of charge. Just call us. **PLEASE READ THE SAFETY INSTRUCTIONS HEREIN.**

**SYSTEM INSPECTION:** Before any use, please inspect the entire tool system, including hoses, gauge, sockets and backup wrenches. Do not use kinked hoses, oversized or heavily worn sockets, backup wrenches, damaged tools, pumps, connectors, or gauges. Connect system to operate from a safe distance. Ensure fasteners are in good shape. Check out tool functioning with drive or hex ratchet turning in one direction only and check out gauge from a safe distance that needle is on zero at no pressure and at 10,000 psi at high pressure. Keep high pressure on and check system visually for leaks. Please keep in mind that hydraulic tools are very strong and work at high pressure.

**HANDS-FREE BOLTING:** The tool you have purchased permits hands-free operation from a safe distance in conjunction with a HYTORC Washer™. We recommend the use of a HYTORC Washer™ to avoid finger-pinching, over-crowded sites and to ensure hands-free bolting at least on all vertical and inverted applications, while eliminating improvisation and the use of reaction members or backup wrenches. Otherwise, set up the tool in a way that it does not have to be held by hand. For more information, please contact us at 1-800-367-4986 or [www.hytorc.com](http://www.hytorc.com).

**HANDS-FREE WASHER APPLICATION:** Make sure the drive and the tool are locked on securely.

**FREE ANNUAL TOOL INSPECTION:** With the purchase of HYTORC, you have the right to a FREE annual tool inspection which includes free seals, springs, connectors, and free lubrication. In case of damaged or worn parts, the first inspection within 12 months of purchase is free of charge. Thereafter, you will be informed of any cost prior to replacement. Any part replaced and charged by us will be sent to you for your inspection upon request when P.O. is issued.

**FREE LOANER TOOLS:** In case of tool failure during the warranty or rental period, please contact your local HYTORC Agent for a free loaner tool - 24/7.

**HOSE REPLACEMENT:** We recommend replacing hydraulic hoses and oil every (3) three months.

**PLEASE WEAR REQUIRED SAFETY ATTIRE** and use common sense during operation.

**HELP:** If you require any further assistance, please call your local HYTORC Representative or 1-800-FOR-HYTORC (1-800-367-4986), on the web at [www.hytorc.com](http://www.hytorc.com) - 24/7! **It's live!**

**PLEASE REVIEW THESE SAFETY  
TIPS BEFORE EVERY TOOL USE**



# THRILL™

## OPERATIONAL AND SPARE PARTS MANUAL

### **CONTENTS**

Warranty	4
jGun Overview	5
jGun Safety	6
jGun Setup and use	7
THRILL Gun Overview	9
THRILL Gun Specifications	10
Torque/Speed Settings	11
High Speed Operation (Impact)	11
Maximum Torque Operation	12
Switching Settings	13
Typical Usage	14
FRL (Filter, Regulator, Lubricator) Overview	16
FRL Setup and Use	18

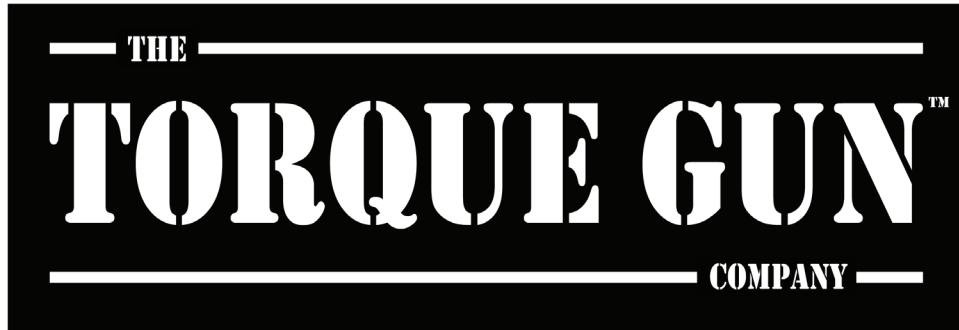
### **FIGURES**

Figure 1: THRILL Gun with Socket	9
Figure 2: THRILL Gun Dimensions	10
Figure 3: Torque Operation Settings - High Speed (Impact)/Maximum Torque	11
Figure 4: Holding the THRILL in the High Speed (Impact) Setting	11
Figure 5: Safety Position for THRILL Gun in Maximum Torque Setting	12
Figure 6: Switching from Maximum Torque to High Speed (Impact)	13
Figure 7: High Speed (Impact) Rundown	15
Figure 8: Maximum Torque Demonstration	15
Figure 9: FRL Unit (Shown without silencer)	16
Figure 10: FRL Unit	19
Figure 11: Detaching FRL Reservoir	19
Figure 12: FRL Unit, Lubricator 2/3rds Full of Oil	20
Figure 13: Adjusting FRL Regulator	21
Figure 14: Adjusting FRL Oil Flow	22

### **TABLES**

Table 1: Bolt Torque Specifications	8
Table 2: THRILL Gun Specifications	9

# WARRANTY



The jGun has a one year limited warranty. Every TORQUE GUN tool is tested before leaving the factory and is warranted to be free from defects in workmanship and materials. TORQUE GUN will repair or replace, without charge, any tool which upon examination proves to be defective in workmanship or materials for one (1) year after the date of purchase. This warranty does not cover damage from repairs made or attempted by other than TORQUE GUN authorized repair facilities.

The repair and replacement remedies described herein are exclusive. In no event shall TORQUE GUN be liable for any incidental, special, or consequential damages, including loss of profits. This warranty is exclusive and in lieu of all other warranties or conditions, written or oral, expressed or implied for merchantability or fitness for particular use or purpose.

This warranty gives you specific legal rights. You may also have other rights that vary from state to state and province to province. In those states that do not allow the exclusion of implied warranties or limitation of incidental or consequential damages, the above limitations or exclusions may not apply to you.

**If you have questions about the TORQUE GUN warranty, contact our customer service center at 201-828-5270.**

## ***jGUN OVERVIEW***

The jGun pneumatic torque wrench is designed to safely and accurately deliver up to 5,200 ft-lbs of torque onto a fastener. This is accomplished using a patented planetary gearbox torque multiplier system and an appropriate reaction arm or HYTORC Washer™ and HYTORC Nut™. The torque multiplier produces torque ratios of up to 1450:1 while the reaction arm or washer is used to absorb the high counter rotational force produced as the final torque value is reached. At final torque value, the jGun safely stalls out, leaving the fastener tightened to specification.

Unlike impact wrenches, the jGun never transmits working torque to the operator. The torque is applied between the fastener and the reaction surface.

This manual provides information for both the standard THRILL jGun.





# ***jGUN SAFETY***

Only qualified personnel who have thoroughly read this document may operate this tool. Failure to safely operate this tool may result in serious injury or death.

- Inspect all jGun components as they are removed from the shipping container. If damage is found to any component, contact your shipper immediately. Do not use the tool.
- Failure to follow correct tool usage could result in personal injury, co-worker injury, and/or damaged tools and equipment.
- Ensure your working area is clean and unobstructed before beginning work.
- jGun maintenance and repair must be performed by a qualified pneumatic technician.
- Modifying a jGun or jGun accessory is dangerous and invalidates the warranty.
- Inspect the tool before each use. Replace any obviously worn or damaged parts.
- When not in use, store the jGun and jGun accessories in the plastic storage case supplied with the tool. Do not expose the gun to high humidity or large temperature variations.

## **Personal Protective Equipment**

- Always wear the appropriate personal protective equipment when operating a jGun including gloves, safety goggles, hearing protection, hard hat, and safety shoes.

## **Air Supply Requirements**

- The air supply line must be ½-inch minimum diameter to allow adequate air flow to the jGun.
- The air supply must provide a minimum of 90 psi at 30 cfm.
- Ensure that air line fittings are tight and leak free. Do not over tighten air line fittings.
- Always use the Filter Regulator Lubricator (FRL) Unit provided with the jGun. Never use a substitute oiler and regulator.

### **NOTE**

Set the air pressure at the FRL while the tool is running as described in FRL Setup and Use.

- Open the air supply connected to the FRL unit and run the jGun while setting the pressure on the regulator gauge.
- Set the air pressure to the PSI needed to achieve desired torque shown on the provided pressure/torque conversion chart, also shown in Pressure / Torque Conversion Charts.

# ***jGUN SETUP AND USE***

Proper setup and use of the jGun before and during installation ensures accurate results and safe operation. The FRL Unit provided with the jGun must be used with the hose provided to ensure the tool's durability. See the FRL Unit Overview section below for more information.

## **Setting a Torque Value**

1. Determine the torque value for the fastener to be tightened, as shown in the Bolt Torque Specifications table on page 8.
2. Determine the air pressure needed to achieve the desired torque by consulting the Pressure/Torque Conversion Chart provided with each tool.
3. Open the air supply connected to the FRL unit and run the torque wrench while setting the pressure on the gauge.

### **NOTE**

The torque wrench must be running while the pressure is being set. When the torque wrench is stopped, the gauge displays a slightly higher pressure than was set with the jGun running. This is normal, proper torque is delivered under working load.

Table 1 - Bolt Torque Specifications

SAE1 30,000PSI	SAE2	ASTM 193 Grade B7 Bolt	Gr. 7 A/F Heavy Hex Nut	Foot Pounds	Estimated Load
1 inch		7/8 inch	1-7/16 inches	300	18,150 lbf
1-1/8 inches		1 inch	1-5/8 inches	425	23,690 lbf
1-1/4 inches				600	29,955 lbf
1-3/8 inches		1-1/8 inches	1-3/16 inches	700	36,990 lbf
		1-1/4 inches	2 inches	800	46,776 lbf
1-1/2 inches				900	44,760 lbf
1-5/8 inches		1-3/8 inches	2-3/16 inches	1,250	53,400 lbf
		1-1/2 inches	2-3/8 inches	1,500	64,617 lbf
1-3/4 inches				1,600	62,400 lbf
1-7/8 inches				1,800	72,300 lbs
		1-5/8 inches	2-9/16 inches	2,000	76,540 lbs
2 inches				2,200	83,100 lbs
		1-3/4 inches	2-3/4 inches	2,600	89,440 lbs
2-1/4 inches				3,000	106,800 lbs
		1-7/8 inches	2-15/16 inches	3,700	110,680 lbs
2-1/2 inches		2 inches	3-1/8 inches	4,000	133,200 lbs
2-3/4 inches				5,100	162,900 lbs

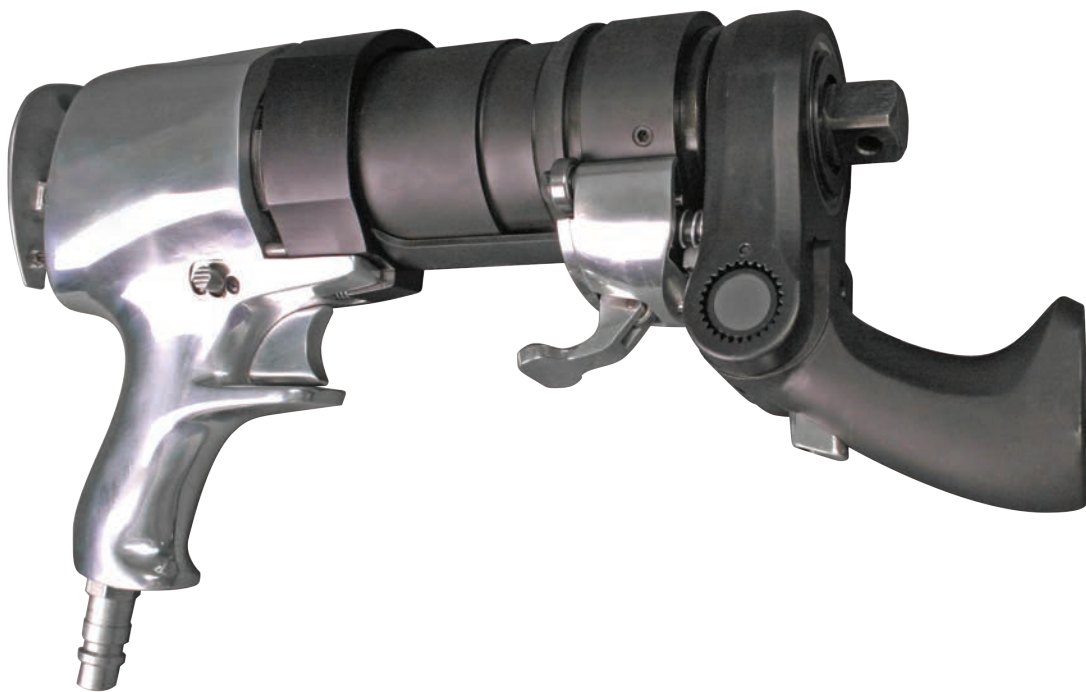
*The Data Above is based on bolts lubricated to manufacturer's specifications.  
 Due to a variation in friction, we recommend in extreme cases to check with the  
 bolt manufacturer, as the chart represents a guideline only.*



# ***THRILL OVERVIEW***

The THRILL Gun is a special implementation of the dual speed pneumatic torque wrench. These pneumatic tools allow the operator to rundown and tighten nuts without the hassles of installing and removing a reaction arm. Each THRILL Gun is equipped with a special mechanism which works as a handle in high speed (impact mode) and a reaction arm when placed in the high torque setting.

Figure 1 - THRILL Gun with Arm in Reaction Position



# THRILL SPECIFICATIONS

General dimensions for the THRILL Gun.

Figure 2 - THRILL Gun Dimensions

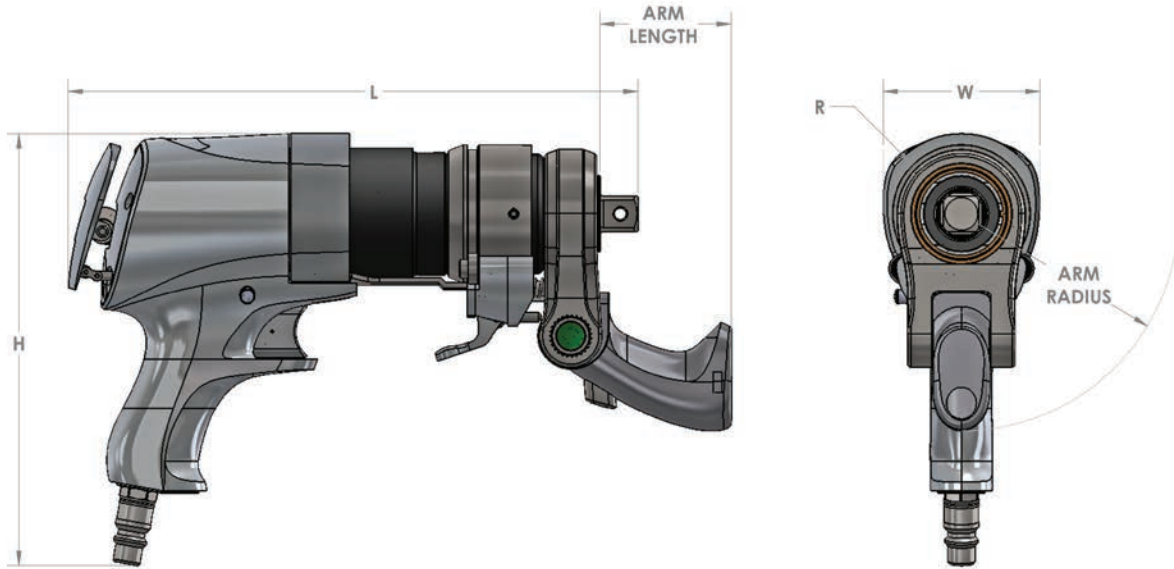


Table 2 - THRILL Gun Specifications

MODEL	THRILL-A.25	THRILL-A.5	THRILL-A.7	THRILL-A1	THRILL-A3
TORQUE RANGE	63-283 ft. lbs. (383.7 Nm)	117-528 ft. lbs. (715.9 Nm)	180-808 ft. lbs. (1095.5 Nm)	252-1134 ft. lbs. (1537.5 Nm)	685-3083 ft. lbs. (4178.6 Nm)
DRIVE SIZE	1/2" SQ.	3/4" SQ.	3/4" SQ.	3/4" SQ.	1" SQ.
HEIGHT (H)	8.25" (21.0 cm)	8.25" (21.0 cm)	9.05" (22.0 cm)	9.05" (22.0 cm)	9.52" (24.2 cm)
LENGTH (L)	10.83" (27.5 cm)	11.25" (28.6 cm)	11.54" (29.3 cm)	11.79" (29.9 cm)	15.64" (39.7 cm)
WIDTH (W)	2.71" (6.9 cm)	2.71" (6.9 cm)	3.29" (8.4 cm)	3.29" (8.4 cm)	3.50" (8.9 cm)
RADIUS	1.12" (2.8 cm)	1.12" (2.8 cm)	1.59" (4.0 cm)	1.59" (4.0 cm)	1.75" (4.4 cm)
ARM LENGTH	2.75" (7.0 cm)	2.75" (7.0 cm)	2.75" (7.0 cm)	2.75" (7.0 cm)	3.50" (8.9 cm)
ARM RADIUS	4.19" (10.6 cm)	4.19" (10.6 cm)	4.55" (11.4 cm)	4.55" (11.4 cm)	6.18" (15.7 cm)
WEIGHT	9.18 lbs. (4.16 kg)	10.19 lbs. (4.62 kg)	13.30 lbs. (6.03 kg)	15.53 lbs. (7.04 kg)	28.70 lbs. (13.02 kg)
RUNDOWN RPM (NO LOAD)	3393 RPM	3182 RPM	3200 RPM	3000 RPM	3500 RPM
FINAL TORQUE RPM	25 RPM	12 RPM	12 RPM	7 RPM	4 RPM

# TORQUE SPEED SETTINGS

The THRILL Gun has two operation settings: High Speed (Impact mode) and Maximum Torque

Figure 3 - Torque Operation Settings, High Speed (Left) and Maximum Torque (Right)



## High Speed Operation

- The THRILL Gun operates in high speed when the arm is locked into the upward position. (Shown on the left in figure 3) The arm should be perpendicular to the body of the jGun.
- When the arm is locked in the upward position, it serves as a handle.
- Once fully engaged, the THRILL housing and square drive will begin to rotate at high speed.
- Use this feature when you want to run nuts on or off a stud quickly.
- When using the high speed feature, be sure to hold the handle firmly as the gun reaches high RPM suddenly. (Shown in Figure 4)

Figure 4 - Holding the THRILL Gun in the High Speed (Impact) Setting



## Maximum Torque Operation

- The THRILL Gun functions in Maximum Torque mode when the arm is locked in the down position. (Shown on the right in figure 3)
- When the arm is locked in the down position, it is a reaction arm.
- PLEASE KEEP YOUR HANDS OFF THE ARM WHEN USING THIS FEATURE.
- See Figure 6 for an illustration of how to hold the gun when in this setting.
- To operate in maximum torque, fully depress rear “safety plate”.
- Once “safety plate” is fully depressed, you may begin maximum torque operation.
- During operation, the square drive will move while the housing of the THRILL will remain stationary.
- While in maximum torque mode, the THRILL behaves similar to that of a single speed jGun. Tighten the nuts until the desired bolt load is reached.

Figure 5 - Safety Position for THRILL Gun in Maximum Torque Setting



### **!! CAUTION !!**

KEEP YOUR HAND OFF THE REACTION ARM AREA WHEN OPERATING IN MAXIMUM TORQUING MODE.

PERSONAL INJURY MAY OCCUR IF YOUR HAND OR ANY PORTION OF YOUR BODY IS LOCATED BETWEEN THE REACTION ARM AND THE REACTION POINT.

## Switching Settings

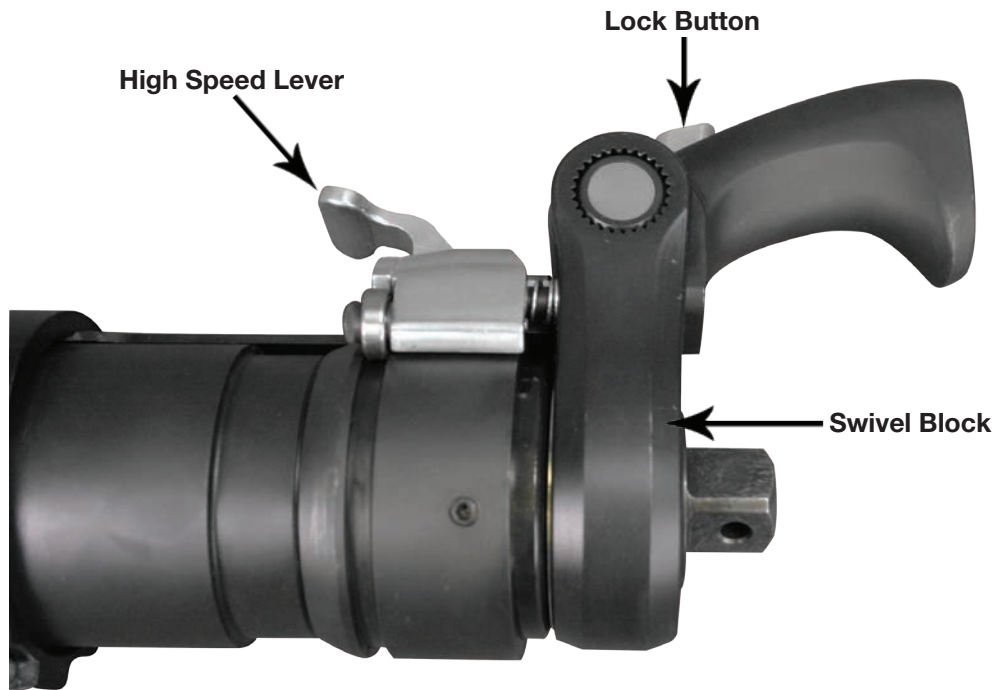
- Before changing torque settings, be sure that the button located on the reaction arm/handle is fully retracted. The mechanism should not be free to move if it is fully engaged.
- Connect the appropriate air fitting to the back of the THRILL Gun.
- To switch between the Maximum Torque and High Speed (Impact) settings, press the locking button and rotate the arm (see Figure 7 on page 15) until it reaches the desired locking position on the swivel block. These locking positions prevent the handle/arm from accidentally moving into a different setting.



- To reverse rotational direction push side directional button in and slightly upwards.
- To revert back to tighten, push the button in and slightly down in one motion.



Figure 6 - Switching from Maximum Torque to High Speed (Impact)



- After making sure that the handle/arm is fully engaged, press the THRILL trigger and run the gun to make sure that you are operating in the desired speed/torque setting.

## NOTE

BEFORE SHIFTING BETWEEN HIGH SPEED AND MAXIMUM TORQUE MODES, MAKE SURE THE TOOL IS COMPLETELY STOPPED. ENSURE THAT THE HANDLE/ARM IS FULLY ENGAGED IN EITHER THE UP OR DOWN POSITION, BEFORE RESUMING OPERATION

FAILURE TO FULLY ENGAGE THE TOOL MAY AFFECT THE OPERATION OF THE TOOL AND ULTIMATELY RESULT IN THE LOSS OF CONTROL AND/OR DAMAGE TO THE TOOL.

- If you experience any trouble shifting into a different setting, re-engage the handle/arm into the previous setting and make sure that it is locked. Press and hold the THRILL Gun trigger for 10 seconds and release. Repeat this step until the gun shifts freely.

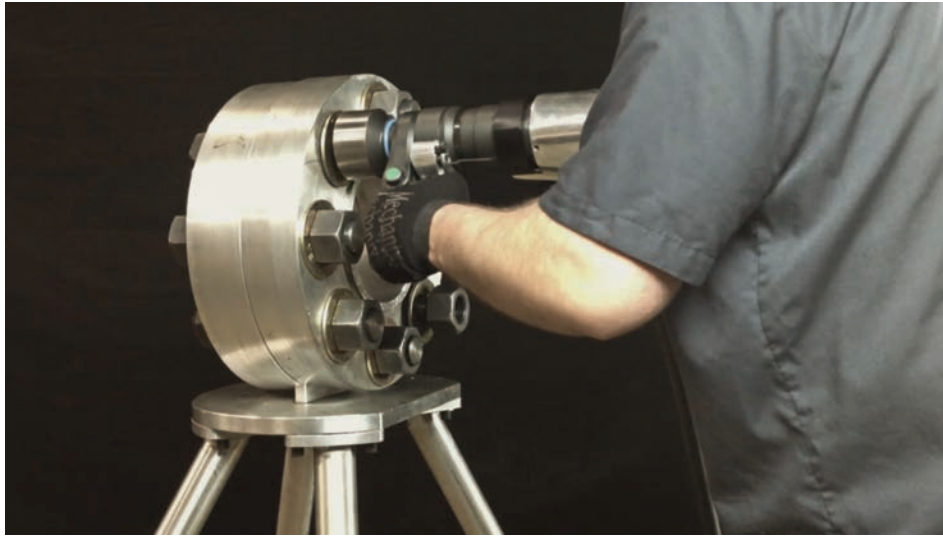
## Typical Usage

The following section is a simple guideline on how to use the THRILL Gun on an application. The figures below show the THRILL Gun being used with a demonstration flange.

- Before operating the THRILL Gun, make sure that the operator reads and understands all safety and setup instructions. For best performance when using the THRILL Gun, use 12 point sockets to rundown and tighten your fasteners.
- Shift the Gun into High Speed (Impact) mode by moving the arm/handle perpendicular to the body of the THRILL Gun. Press down the lever to activate high speed mode. Make sure that the side button on the handle is out before pressing the trigger. Run down all the nuts on the application using the high speed setting. Remember to hold the handle firmly while operating the THRILL Gun.
- Run the nuts down until they seat and bring the THRILL Gun to a complete stop.

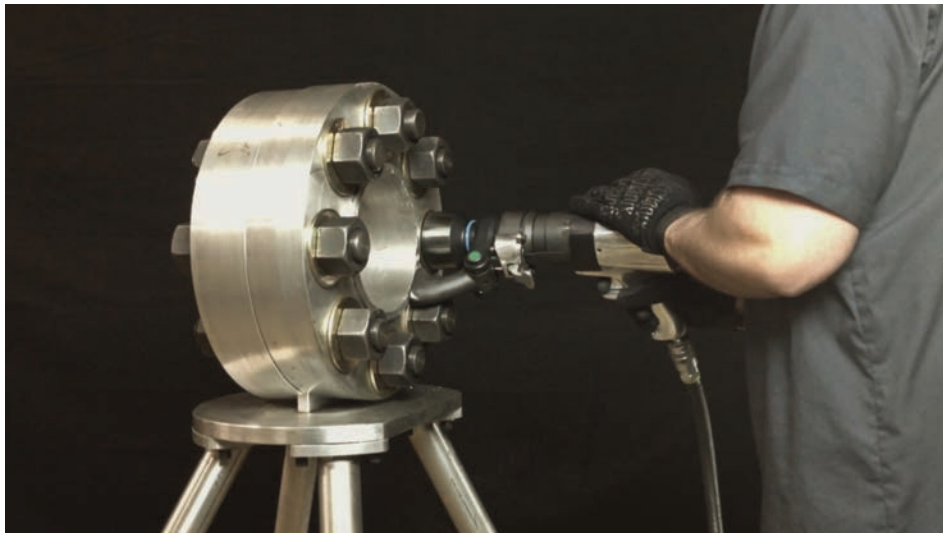


Figure 7 - High Speed (Impact) Rundown



- Once the THRILL comes to a complete stop, remove the tool from the nut and change the setting from High Speed (Impact) to Maximum Torque. Remember to remove your hand from the trigger, press the locking button, and rotate the arm/handle until it locks into position (see Maximum Torque Section for clarification).
- Place the tool back on the nut for the final torque. Fully depress rear “safety plate” and make sure that your hands are away from the reaction arm.

Figure 8 - Maximum Torque Demonstration



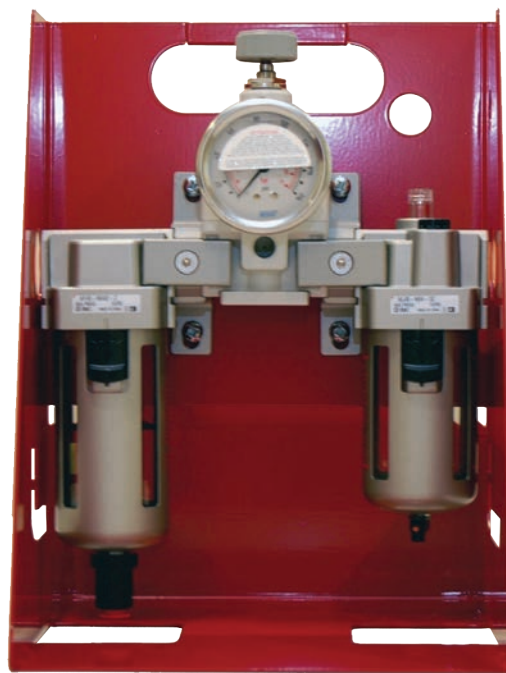
- Hold the THRILL Gun securely as it tightens the nut down to the desired torque setting. Press and hold the THRILL Gun trigger until you hear the motor stall. Repeat this step for all nuts which need to be tightened to the specific torque value.

# ***FILTER/REGULATOR/LUBRICATOR (FRL) UNIT OVERVIEW***

A Filter/Regulator/Lubricator (FRL) Unit is provided with every jGun and must be used in conjunction with the tool. In addition, the FRL Unit must be used with the 12' hose provided for connection to the jGun to ensure the tool's durability. The FRL Unit removes water and foreign material from your air supply, regulates the air pressure, and mixes pneumatic tool oil into the air to keep your jGun lubricated.

Operating the jGun without the FRL Unit will void the warranty and may cause damage to the air motor and gearbox. Incorrect setting of the lubricator unit may result in a shortage of lubrication to the air motor and gearbox resulting in damage to the tool.

Figure 9 - FRL Unit (Shown without silencer)



## **Personal Protective Equipment**

Only qualified personnel who have thoroughly read this document may operate this tool. Failure to safely operate this tool may result in serious injury or death.

- Inspect all FRL components as they are removed from the shipping container. If damage is found to any component, contact your shipper immediately. Do not use the tool.
- Failure to follow correct tool usage could result in personal injury, co-worker injury, and/or damaged tools and equipment.
- Ensure that your working area is clean and unobstructed before beginning work.

- FRL maintenance and repair must be performed by a qualified pneumatic technician.
- Modifying an FRL or FRL accessory is dangerous and invalidates the warranty.
- Inspect the unit before each use. Replace any obviously worn or damaged parts.
- When not in use, properly store the FRL, hoses and couplers.
- Analog gauges are standard to our FRL units. Digital gauges are not recommended for certain applications. Please consult a Technical Representative before using a digital gauge unit.

## **Personal Protective Equipment**

- Always wear the appropriate personal protective equipment when operating the FRL and jGun including gloves, safety goggles, hearing protection, hard hat, and safety shoes

## **Air Supply Requirements**

- Air supply line must be ½-inch minimum diameter to allow adequate air flow to the jGun
- Air supply must be 90 psi @ 30 cfm minimum.
- Ensure that air line fittings are tight and leak free. Do not over tighten air line fittings.
- Always use the FRL Unit provided with the jGun. Never use a substitute oiler and regulator with a jGun.
- Open the air supply connected to the FRL unit and run the torque wrench while setting the pressure on the gauge.
- Set the air pressure to the PSI needed to achieve desired torque shown on the provided pressure/torque conversion chart.

### **NOTE**

Set the air pressure while the tool is running as described in the Setup and Use section.

- Open the air supply connected to the FRL unit and run the torque wrench while setting the pressure on the gauge.
- Set the air pressure to the PSI needed to achieve desired torque shown on the provided pressure/torque conversion chart.

# ***FRL SET UP AND USE***

Proper setup and use of the FRL unit will ensure accurate results and safe operation. The three components of the FRL must be checked individually to ensure correct operation.

- Empty the filter reservoir before use.
- If you are using a digital gauge, press the ZERO button on the regulator gauge before setting the operating pressure.
- Adjust the lubricator flow properly.
- Fill the lubricator reservoir with pneumatic tool oil (provided with the FRL unit).

## **Important FRL Operating Procedures**

- Only operate the unit with the air flow moving in the direction indicated by the arrows on top of the unit.
- Empty the filter reservoir before each use to remove water and sediment.
- Fill the lubricator reservoir only with pneumatic tool oil before each use.
- Adjust the lubricator flow to one (1) drop per ten (10) seconds (shortage of lubrication may cause motor to seize).
- Use only the hose provided with the FRL for connection to the unit; a change in hose length may affect tool durability and accuracy.

## **Emptying the Filter Reservoir**

You may empty the filter reservoir of water and foreign material in two ways:

- Emptying water through the release valve on the underside of the reservoir.
  - a. To use the release valve, push the valve until the water or debris drains out of the reservoir.
- Removal of the reservoir. To remove the reservoir from the FRL unit:
  - a. Push down on the black square button to unlock the reservoir.
  - b. Twist the filter reservoir until the two lines on the FRL body and the filter reservoir are aligned.

*Technical data and specifications are subject to change without notice.*

Figure 10 - FRL Unit



- c. Pull the filter reservoir down to detach from lubricator body.
- d. Discard the contents of the filter reservoir.

Figure 11 - Detaching FRL Reservoir





Figure 12 - FRL Unit, Lubricator 2/3rds Full of Oil



- e. If needed, refill the reservoir as described on page 21.
- f. Reattach the lubricator by aligning the lines on the filter reservoir and FRL body, and pushing up on the reservoir, then twisting the reservoir to lock it in place. The black locking button should snap into its original position.

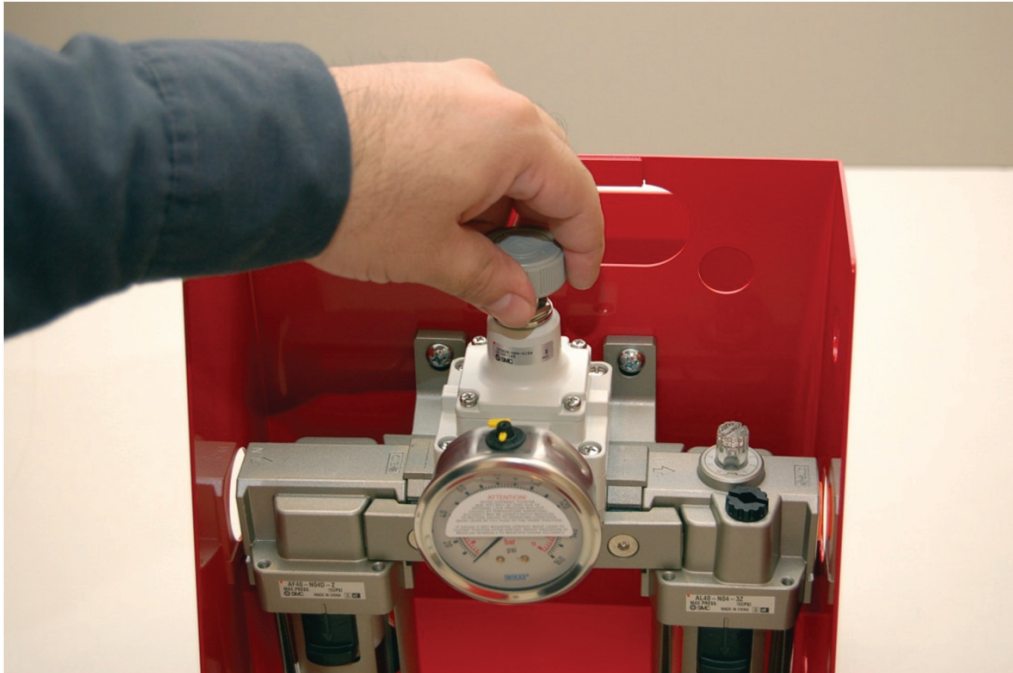
## Adjusting Air Pressure

To adjust the air pressure at the regulator:

1. If you are using a digital gauge, press the ON button on the gauge, then press the ZERO button to set the reading to zero. Do not press the ZERO button when the system is under pressure.
2. A Torque Chart is provided with each tool which gives the conversion from air pressure (PSI) to torque (ft-lbs and N-m). Use the chart to determine the air pressure needed to achieve desired torque output.
3. Connect your air supply to the FRL, and press the ON button to view current air pressure.
4. While operating the tool, turn the regulator knob clockwise to decrease pressure and counter-clockwise to increase pressure. Allow 30 seconds for the analog gauge to settle. (Pressure Valve is regulated not to exceed 90 PSI)



Figure 13 - Adjusting FRL Regulator



## Filling the Lubricator Reservoir

To fill the lubricator reservoir:

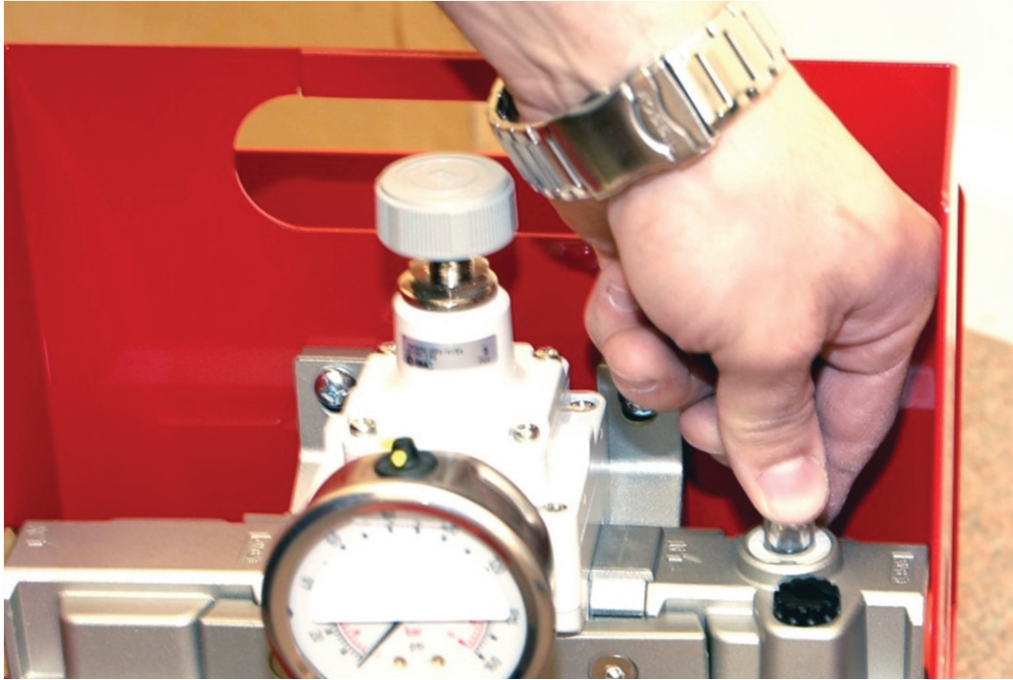
1. Push the black square button down to unlock the reservoir.
2. Twist the lubricator reservoir until the two lines on the lubricator body and the lubricator reservoir are aligned.
3. Pull the lubricator reservoir down to detach it from lubricator body.
4. Pour pneumatic tool oil into the reservoir until it is about two-thirds full.
5. To reattach the lubricator, realign the lines on the lubricator reservoir and main body, then push the two pieces together and twist the reservoir to lock in place.

## Adjusting the Flow

To adjust the oil flow of the FRL device:

1. Remove any attachments from the tool.
2. Run the tool while watching the rate at which oil drips through the acrylic view-glass on the lubricator unit.

Figure 14 - Adjusting FRL Oil Flow



3. Turn the flow adjustment knob clockwise or counter-clockwise until the oil is dripping at a rate of at least one drop every ten seconds.

## Repair and Maintenance

Although the FRL is a self-contained unit and does not require heavy maintenance, proper repair and preventative maintenance will ensure the life span of the unit.

## Hoses and Fittings

- Visually inspect air lines and air line fittings before tool use.
- Replace worn or leaking air lines.
- Tighten leaky fittings



## **!! CAUTION !!**

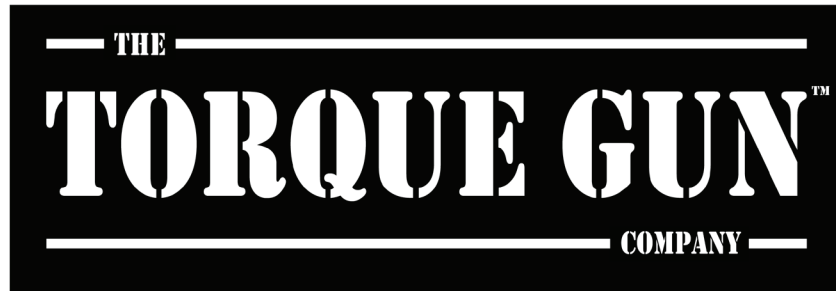
LOOSE FITTINGS CAN BE POTENTIALLY DANGEROUS WHEN PRESSURIZED. OVER TIGHTENING FITTINGS CAN CAUSE PERMANENT THREAD FAILURE.

LOOSE FITTINGS OR OVER TIGHTENED FITTINGS CAN CAUSE PERSONAL INJURY AND TOOL DAMAGE.

ENSURE THAT AIR LINE FITTINGS ARE TIGHT, BUT NOT OVER TIGHT.

**BREAKTHROUGH PRODUCTS**

**FOR INDUSTRIAL BOLTING**



Find your nearest TORCGUN distributor at  
**[www.torquegun.com/dist](http://www.torquegun.com/dist)**

**THE TORQUE GUN COMPANY**

120 Wesley Street, Hackensack, New Jersey 07606 U.S.A.

Tel: 201-512-9800 • E-Mail: [info@torcgun.com](mailto:info@torcgun.com) • Web: [torquegun.com](http://torquegun.com)

**888-GUN-2-GUN**