

INSTRUCTION MANUAL FOR RATCHET WRENCH

Safety Precautions

To ensure safe operation of this pneumatic tool, always adhere to the following safety standards:

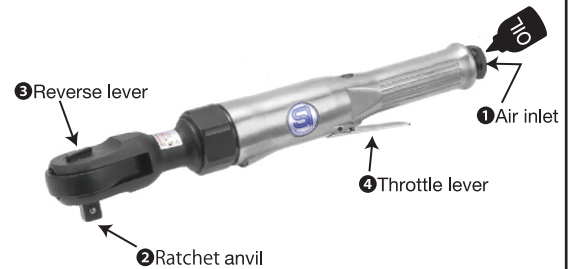
Work Area and Apparel

Always wear approved safety goggles, a dust mask, ear protectors (hearing protection), and safety shoes during operation.
Do not wear loose-fitting clothing, ties, necklaces, or unconfined long hair, as they can be caught in the rotating parts.
Never operate this tool in explosive atmospheres, such as in the presence of flammable liquids, gases, or high dust levels.
Sparks generated during drilling can ignite dust or fumes.

Air Supply & Pressure Management

Do not exceed the maximum operating air pressure of 0.63 MPa (90 PSI). Excessive air pressure can cause tool bursting or abnormal high-speed rotation, resulting in severe danger.
Ensure the air supply line is equipped with an air filter to remove moisture/debris and a lubricator for continuous tool oiling.

SI-1435

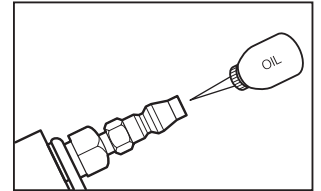


Air Supply & Connection

Dry & Clean Air: Ensure the air compressor delivers clean, dry air. Moisture and dust in the air line will cause rust and damage the internal motor components.
Hose Connection: Clean the air hose and fittings before connecting them to the tool.
FRL Unit: The use of an air filter-regulator-lubricator (FRL) unit is highly recommended to maintain tool longevity and performance.

Daily Lubrication

If an automatic line lubricator is not used, inject 1 to 2 drops of high-grade pneumatic tool oil (ISO VG32 turbine oil) directly into the air inlet before and after each use.
Run the tool at free speed for a few seconds to distribute the oil evenly inside the motor.



Operating Instructions

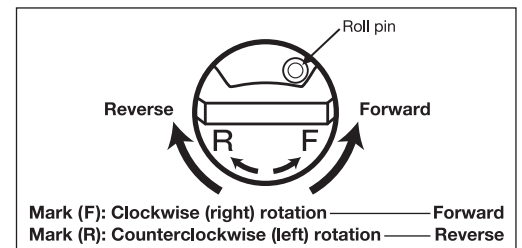
CAUTION: Always disconnect the air hose from the tool before installing, removing, or adjusting the driver bits to prevent accidental startup.

1. Socket Installation & Removal Align the square drive socket with the 1/2" square anvil of the tool and press it firmly until it locks completely securely in place.

Verification: Hand-test the socket by giving it a light pull to ensure it is completely locked in place. Visually check that the socket is aligned straight along the center axis before operation.
Removal: Disconnect the air supply, then pull the socket straight off the anvil.

2. Forward/Reverse Rotation

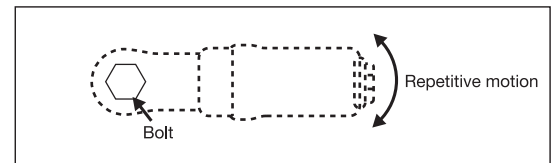
Forward/Reverse Lever: Switch the lever according to your work objective. This allows you to easily change between tightening (Forward) and loosening (Reverse).



3. Tool Handling & Manual Operation Hold the tool securely with a firm grip to withstand the reaction force during operation.

Align the socket straight and accurately onto the nut or bolt head.
Manual Tightening & Loosening: Since this tool features a built-in ratchet mechanism, perform the final tightening and initial loosening manually, just like using a hand tool. Apply adequate force before pressing the trigger for loosening, or after releasing the trigger for final verification.

Trigger Operation: Pull the throttle lever to operate the tool, and release it to stop. As soon as the nut is fully run down or loosened, release the trigger immediately. Wait until the tool stops rotating completely before lifting the socket off the nut/bolt head and putting the tool down.



Maintenance & Storage

Post-Use Cleaning: Remove the drill bit after use.

Clean the tool body and air inlet area with a dry cloth or clean compressed air to remove accumulated chips and dust.

Moisture Drainage: Drain the compressor tank and air line water traps daily. Moisture entering the tool internals causes rust and premature motor failure.

Storage: Store the tool in a dry, safe environment. If the tool is to be stored for an extended period, apply a generous amount of air oil into the inlet, run it for 2-3 seconds to coat internal components, and wrap it securely.

SI-1435 Specifications

Model Number	Free Speed rpm	Shank Size in./mm	Max Torque Nm/(ft-lb)	Working Torque Nm/(ft-lb)	Bolt Cap mm/(in.)	Weight kg/(lb)	Noise Level dBA/(power)	Vibration a/k m/s ²	Avg. Air Consumption CFM	Hose Size mm/(in.)
SI-1435	140	1/2" (12.7)	160/(118)	0-110/(0-81)	16/(5/8)	1.95/(4.31)	93/(104)	5.4/(1.0)	4.7/(2.2)	10 / (3/8")

⚠ WARNING

- Avoid using the tool for the other purpose than the usage, and do the impossible operation beyond the ability.
- Be sure to employ the impact socket. Furthermore, neither use the damaged socket nor the different size socket.
- For replacement of impact socket, be sure to dismount the air hose.

⚠ CAUTION

- Avoid unnecessary idling run, which will encourage to wear and result in trouble.
- The air tool is a precious tool. Be careful not to throw or drop the tool, or give a strong shock thereto.
- After operations, be sure to prevent dusts from entering at the air inlet. This may result in power down.
- Operate the tool within the air pressure of 0.63MPa (6.5kg/cm²). If operated in high pressure, the maximum allowance speed will be exceeded, which may result in damage of components.

AIR SUPPLY

Pressure at the working	0.63MPa (90PSI 6.3bar)
Max Hose Length	10m (30ft)
Lubrication	Daily Lubricating oil

