



SAFETY INSTRUCTION



Air Supply And Connection Hazards



- Air under pressure can cause severe injury.
- Always shut off air supply, drain hose of air pressure and disconnect tool from air supply when not in use, before changing accessories or when making repairs.
- Never direct air at yourself or anyone else.
- Whipping hoses can cause serious injury. Always check for damaged or loose hoses and fittings.
- Do not use quick disconnect couplings at tool. See instructions for correct set-up.
- Whenever universal twist couplings are used, lock pins must be installed.
- Do not exceed maximum air pressure of 600 KPa, (6kg/cm², 85 P.S.I, 6 bar) or as stated on tool nameplate.



Entanglement Hazards

- Keep away from rotating drive.
- Do not wear jewelry or loose clothing.
- Choking can occur if neckwear is not kept away from tool and accessories.
- Scalping can occur if hair is not kept away from tool and accessories.
- Avoid direct contact with accessories during and after use. Gloves will reduce the risk of cuts or burns.
- Use only proper accessories retainers.



For additional safety information consult:

- Other documents and information packed with this tool.
- Your employer union and/or trade association.
- US Department of Labor(OSHA); Council of the European Communities and/or local codes.
- "Safety Code For Portable Air Tools"(B186.1) available from: American National Standards Institute, Inc., 11 W. 42nd street, New York, NY 10036
- "Safety Requirement For Hand-Held Non-Electric Power Tools" available from: European Committee for Standardization, Rue de Stassart 36, 1050 Brussels, Belgium.



Projectile Hazards



- Always wear impact-resistant eye and face protection when involved with or near the operation, repair or maintenance of the tool or changing.
- Be sure all others in the area are wearing impact-resistant eye and face protection.
- Even small projectiles can injure eyes and cause blindness.
- Do not use hand sockets. Use only impact wrench sockets in good condition.
- Sockets in poor condition or hand sockets used with impact wrenches can shatter.
- Always use the simplest hook-up possible. Long, springy extension bars and adapters absorb impact power and could break. Use deep sockets wherever possible.
- Never operate the tool off of the work. It may run too fast and cause the accessory to be thrown off the tool.



Workplace Hazards



- Slip/Trip/Fall is a major cause of serious injury or death. Beware of excess hose left on the walking or work surface.
- High sound levels can cause permanent hearing loss. Use hearing protection as recommended by your employer or OSHA regulation (see 29 CFR part 1910).
- Maintain a balanced body position and secure footing.
- Repetitive work motions, awkward positions and exposure to vibration can be harmful to hands and arms.
- Avoid inhaling dust or handling debris from work process that can be harmful your health.
- Proceed with care in unfamiliar surroundings. Be aware of potential hazards created by your work activity. This tool is not insulated for coming into contact with electric power. sources.



Additional Safety Topics

- This tool and its accessories must not be modified.
- This tool is not recommended for use in explosive atmospheres.
- Operators and maintenance personnel must be physically able to handle the bulk, weight and power of the tool.

Instructions

Air Supply Requirements

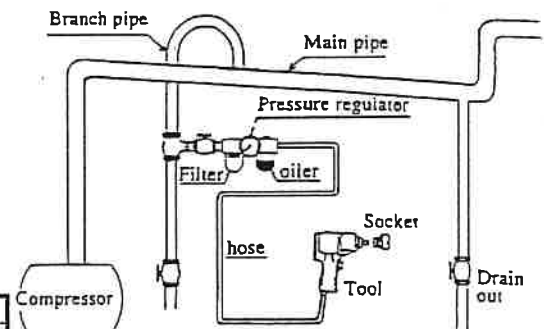
1. Supply tool with 600KPa. (6kg/cm², 85 P.S.I, 6bar) of clean, dry air. Higher pressure drastically reduces tool life.
2. Connect tool to air line using pipe, hose, and fitting sizes shown in the diagram right side.
3. Compressor capacity is determined by the volume of air required to work. To provide some allowance, however, for leakage and future expansion.

Compressor Capacity (as reference)

POWER	KW	0.75	1.5	2.2	3.7	5.5	7.5	11	15	22	37
	HP	1	2	3	5	7.5	10	15	20	30	50
Small Compressor	m ³ /min	0.08	0.16	0.25	0.41	0.61	0.83	1.2	-	-	-
Packaged Compressor	m ³ /min	-	-	-	0.44	0.72	1.1	1.6	2.0	3.7	6.1

Lubrication

1. Use an air line lubricator with ISO. VG10 (FC10) OIL (ex, SHELL : TETRA OIL 10, MOBIL : VELOCITY OIL No.6) adjusted to two (2) drops per minute. If an air line lubricator cannot be used, add air motor oil to the inlet once a day Check clutch grease once each month. Use molybdenum grease or equivalent. (170PA uses 15ml light spindle oil)



Operation

1. This impact wrench is equipped with a regulator to enable adjustment of output power.
2. When tightening nuts not requiring critical torque values, run nut up snug and then tighten an additional one-quarter to one-half turn.

Maintenance

1. Disassemble and inspect air motor and impacting clutch every three(3) months if the tool is used every day. Replace damaged or worn parts.