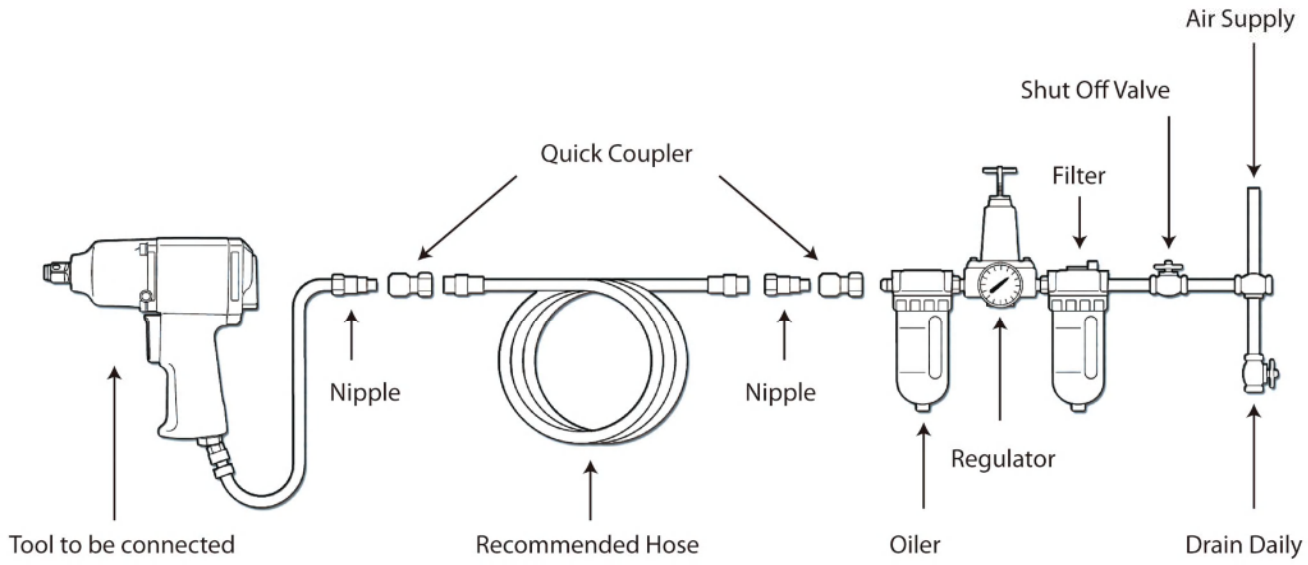
MANUFACUTURER/SUPPLIER :

PNEUMATIC TOOLS
SHINANO INC.

No. 1672, Ohnohara, Kamekubo,Fujimino-city
Saitama Prefecture 356-0051 Japan

MODEL NO.	**INSTRUCTION MANUAL**
SI-1610/SI-1610SR	Include - WORK STATION, AIR SUPPLY
SERIAL NO.	FORESEEN USE OF TOOL, OPERATION, SPARE-PARTS LIST
0001 ~ up YEAR /2009	
PRODUCT TYPE	**IMPORTANT**
1/2" Sq. Drv. Impact Wrench (Pistol Grip)	Read this instruction manual carefully before operating or repairing the tool and keep this munual in safe accessible place.
R.P.M.	
F 8,000 R 8,500 R.P.M	**WORK STATION**
PRODUCT NET WEIGHT	The tool should only be used as a handheld tool. It is always recommended that the tool is used when standing on a solid floor.
2.29 lb 1.04 kg	It can be used in other positions but before any such use, the operator must be in a secure position having a firm grip and be aware of the extra safety precaution required when using this kind of tools.
AIR PRESSURE	
6.3 bar 90 PSI	
RECOMMENDED HOSE BORE	
3/8" In 10 mm	
RECOMMENDED HOSE LENGTH	**AIR SUPPLY**
30 Ft 10 m	Use a clean lubricated air supply that will give a measured air pressure at the tools of 90 PSI/6.3 bar when the tool is running with the trigger depressed. Use recommended hose size and length. It is recommended that the tool is connected to the air supply as shown in the figure. Don't connect the tool to the air line system without incororating an easy to reach and operate air shut off valve. The air supply should be lubricated. It is strongly reccomended that air filter, regulator and lubricator are used as shown in the figure as this will supply clean, lubricated air at the correct pressure to the tool. Details of such equiment can be obtained from your supplier.
PERSONAL SAFETY EQUIPMENT	If such equipment is not used then the tool should be lubricated by operator before/after using the tool. Disconnect the air line and pour into the inlet bushing 5ml of a suitable pneumatic oil preperably incorporationg a rust inhibitor. Reconnect tool to air supply and run tool slowly for a few seconds to allow air to circulate the oil.
Use Safety Glasses **Yes**	
Use Safety Gloves ~~**Yes**~~	
Use Safety Boots ~~**Yes**~~	
Use Breathing Masks ~~**Yes**~~	
Use Ear Protectors **Yes**	
NOISE LEVEL	
Sound Pressure **82 dB(A)**	
Sound Power **94 dB(A)**	
TEST METHOD:	
Tested according to ISO-3744	



FORESEEN USE OF TOOLS

The tools is designed for the tightening and loosening of threaded fasteners within the range as specified by the manufacturer. It should only be used in conjunction with socket wrench for impact wrench.

It is accetable to use suitable extension bars, universal joints and socket adaptors between the square output drive of the impact wrench and female square drive of the socket.

Do not use the tool for any other purpose other than that specified without consulting the manufacturer or the manufacturer's authorised supplier. To do so may be Never use the impact wrench as a hammer to dislodge or straighten cross threaded fasteners. Never attempt to modify the tool for other uses and never modify the tool even its recommended use as a nutrunner.

SAFETY RULES FOR IMPACT WRENCH

1) Read all the instructions before using the tool. All must be fully trained in its use and aware of these safety rules.
2) Do not exceed the recommended air pressure.
3) Use personal safety equipment.
4) Use clean compressed air at the recommended pressure.
5) If the tool appears to malfunction, stop operating and arrange for service and repair.
6) If the tool is used with a balancer or other support device, ensure that it is fixed securely.
7) Always keep hands away from the working attachment to the tool.
8) The tool is not electrically insulated. Never use the tool if there is any chance of it coming into contact with live
9) When using the tool 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.
10) Use only Genuine Shinano spare parts. Do no improvise or make temporary repairs.
11) 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.
12) 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.
13) Check hose and fittings regularly for wear. Replace if necessary. Do not carry the tool by its hose and ensure the hand is remote from the on/off control when carrying the tool with the air supply connected.
14) 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.
15) It is expected that users will adopt safe working practices and observe all relevant legal requirement when installing, using or maintaining the tool.
16) Do not install the tool unless an easily accessible and easily operable on/off valve is incorporated in the air supply.
17) Take care that the tool exhaust air dose not cause a or blows on another person.
18) Never lay a tool down unless the working attachment has stopped moving.
19) Always ensure that the reverse lever is in the correct position before starting the tool.
20) Do not use sockets with excessive wear to input and drives. Periodically check the square drive on the impact Make sure the soket, extension is firmly fixed to the tool.
21) The socket used must be of the correct drive size and the impact type. Never use sockets other than impact type.
22) Do not attempt to hold or guide the socket by hand when the tool is running.
23) Preferably shut off the air supply before changing sockets or at least ensure that the hands are well clear of the operating trigger.
24) When loosening fastners first ensure that there is clearance behind the tool to avoid hand entrapment.
The tool will move away from the threaded joint as the is loosened and rides up the thread moving the tool with it.
24) Only use extensions, adaptors and universal joints suitable for use with impact wrench.

OPERATION

The output of the impact wrench in prime working condition is governed by mainly three factors.
1) the input air pressure 2) the time the impact wrench is on the joint. Normal time for joints of average tension 3 to 5 seconds. 3) the setting of the air regulator for givn at a given pressure operated for a given time.
The air regulator can be used to regulate the output of the impact wrench if no other control means is available. It is strongly recommended that an external pressure regulator ideally as part of a filter/regulator/lubricator is used to control the tension required to be applied to the threaded fastner joint.
There is no consistent reliable torque adjustment on an impact wrench of this type. However, the air regulator can be used to adjust torque to the approximate tightness of a known theaded joint. To set the tool to the desired torque, select a nut or screw of known tightness of the same size, thread pitch and thread condition as those on the job. Turn air regulator to low position, apply wrench to nut and gradually increase power (turn regulator to admit more air) until nut moves slightly in the direction it was originally set. The tool is now set to duplicate that tightness, note regulator setting for future use. When tightening nuts not requiring critical torque values, run nut uo flush and then tighten an additional one-quarter to one half turn (slight additional turning is necessary if gasket are being clamped).
For additional power neede on disassembly work, turn regulator to its fully open position. This impact wrench is rated a 3/8" bolt size. Rating must be down graded for spring U bolt, tie bolts, long cap screw, double depth nuts, badly rusted conditions and spring fastner as they absorb much of the impact power. When possible, clamp or wedge the bolt to prevent springback.
Soak rusted nuts in penetrating oil and break rust seal before removing with impact wrench. If nut does not start to move in three or five seconds use a larger size impact. Do not use impact wrench beyond rated capacity as this will drastically reduse tool life.

FEATURES

The rubber grip absorbs the vibration remarkably and also your hand from the cold.
For loosen the bilt, the torque is permanently full.