



## SPECIFICATION

### 1" AIR IMPACT WRENCH

**MODEL No.4230. STOCK No.21661.**

Square Drive: .....1"  
 Clutch Type:.....Rocking Dog  
 Bolt Capacity:.....30mm (1 1/4")  
 Ultimate Torque:.....152kg/M (1,100ft/lbs)  
 Operating Air Pressure:.....6.33kg/cm<sup>2</sup> (90psi)  
 Average Air Consumption:.....20.4cm<sup>3</sup>/Mh (12.0cfm)  
 Minimum Hose Size:.....1/2" I/D  
 Air Inlet:.....1/2" BSP  
 Weight:.....12.6kg (27.8lb)  
 Sound Pressure Level:.....81.9 dbA  
 Vibration Level:.....1.3 m/s<sup>2</sup>

### WEAR EAR PROTECTION

**IMPORTANT: PLEASE READ THESE INSTRUCTIONS CAREFULLY TO ENSURE THE SAFE AND EFFECTIVE USE OF THIS TOOL.**



## OPERATING INSTRUCTIONS

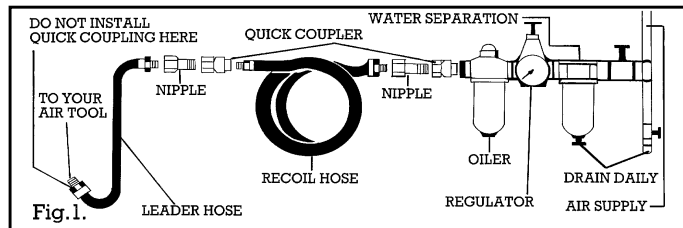
#### AIR SUPPLY

Tools in the range generally operate at a maximum pressure of 90 psi a (see specifications) and this should be controlled via a combined regulator/oil/water separator such as the Draper Stock No. 51887 unit which with proper maintenance will ensure a constant supply of dry air and lubricating oil at all times. See Fig. 1. below. Always check machine operating pressure before use.

Water in the compressor tank will cause serious corrosion to your air tools and should be drained daily to avoid excessive water in your air supply. Dirty wet air rapidly shortens the life of your air tool.

If you are using an air tool on a hose over 25ft. long it is advisable to increase the bore of the hose to the next larger size available i.e. 1/4" increases 3/8". This will ensure adequate pressure and volume of air to power the machine.

#### RECOMMENDED AIR SUPPLY:



#### OPERATION:

Some air tools have inbuilt regulators which can be used to control speed/torque performance, on machines without inbuilt regulators this can be done by varying the pressure on your air supply regulator.

#### MAINTENANCE:

Every day, before use, remove the tool from the air line, use an oil can and pour the equivalent of a tablespoon of suitable oil into the machine (through the air intake). Operate at low speed to ensure lubrication of all moving parts. If machine is in constant use or is to be used for long periods of time a combination filter/lubricator must be fitted in the system. At all times the system must be fitted with an air filter.

**Recommended oils are Shell Tellus 22, Duckhams Zircon 32 or Castrol AWS32. Do not use normal engine oil or similar.**

**Please note: failure to comply with the above Maintenance/Operating Instructions could invalidate the Guarantee.**



## TROUBLE SHOOTING

PROBLEMS	POSSIBLE CAUSES	REMEDIES
Tool runs at normal speed but loses under load	<ul style="list-style-type: none"> <li>Motor parts worn.</li> <li>Cam clutch worn or sticking due to lack of lubricant.</li> </ul>	<ul style="list-style-type: none"> <li>Lubricate clutch housing.</li> <li>Check for excess clutch oil. Clutch cases need only be half full. Overfilling can cause drag on high speed clutch parts, i.e. a typical oiled/lubricated wrench requires 1/2 ounce of oil.</li> </ul> <p><b>GREASE LUBRICATED-NOTE:</b> Heat usually indicates insufficient grease in chamber. Severe operating conditions may require more frequent lubrication.</p>
Tool runs slowly. Air flows slightly from exhaust	<ul style="list-style-type: none"> <li>Motor parts jammed with dirt particles</li> <li>Power regulator in closed position</li> <li>Air flow blocked by dirt.</li> </ul>	<ul style="list-style-type: none"> <li>Check air inlet filter for blockage.</li> <li>Pour air tool lubricating oil into air inlet as per instructions.</li> <li>Operate tool in short bursts quickly reversing rotation back and forth where applicable.</li> <li>Repeat above as needed. If this fails return to service centre.</li> </ul>
Tools will not run. Air flows freely from exhaust	<ul style="list-style-type: none"> <li>One or more motor vanes stuck due to material build up.</li> </ul>	<ul style="list-style-type: none"> <li>Pour air tool lubricating oil into air inlet.</li> <li>Operate tool in short bursts of forward and/or reverse rotation where applicable.</li> <li>Tap motor housing gently with plastic mallet.</li> <li>Disconnect supply. Free motor by rotating drive shank manually where applicable</li> <li>If tool remains jammed return to service centre.</li> </ul>
Tool will not shut off	<ul style="list-style-type: none"> <li>'O' rings throttle valve dislodged from seat inlet valve.</li> </ul>	<ul style="list-style-type: none"> <li>Replace 'O' ring or return to service centre.</li> </ul>



## DECLARATION OF CONFORMITY

We Draper Tools Ltd. Declare under our sole responsibility that the product:

**Part Number:- 4230 Stock Number:- 21661**

**Description:- 1" Square Drive Impact Wrench**

To which this declaration relates is in conformity with the following directive(s):-

89/392/EEC and Amendments.

With reference to ISO 8662.

**J.N. DRAPER**  
Managing Director

05/12/96



## SAFETY RULES FOR AIR TOOL PRODUCTS

1. Always wear safety goggles or glasses.
2. Always ensure machine is switched off before connecting to air supply.
3. Disconnect any machine from the air supply before changing blades or discs, and before servicing any type of machine.
4. Always keep your air tool clean and lubricated. Daily lubrication is essential to avoid internal corrosion and possible failure.
5. Do not wear watches, rings bracelets or loose clothing when using air tools.
6. Using only light weight coil hoses from a tool to the wall or compressor coupling. Do not fit quick change couplings onto the machine as vibration can cause the coupling to fail.
7. Do not overload the machine. Allow the tool to operate at its optimum speed for maximum efficiency.
8. Do not increase the air pressure above the manufacturers recommended level, as excessive overload can cause the machine casing to split. Also this creates excessive wear on moving parts and possible failure.
9. In the interests of safety and possible damage to the machine/operator, always ensure that the machine has stopped before putting it down after use.
10. Always ensure that the workpiece is firmly secured leaving both hands free to control the machine.
11. Always ensure that the accessories such as blades, discs, sockets, etc. are rated/designed for use with the machine. Also correctly and securely fastened before connecting the machine to the air supply.



## AIR TOOLS GUARANTEE

Draper air tools have been carefully tested and inspected before shipment and are guaranteed to be free from defective materials and workmanship for 6 months from the date of purchase except where tools are hired out when the guarantee period is ninety days from the date of purchase.

Should the machine develop any fault, please return the complete tool to your nearest authorized warranty repair agent or contact Draper Tools Limited, Chandler's Ford, Eastleigh, Hampshire, SO53 1YF. England. Telephone (023) 8049 4344.

If, upon inspection it is found that the fault occurring is due to defective materials or workmanship, repairs will be carried out free of charge. This guarantee does not apply to normal wear and tear, nor does it cover any damage caused by misuse, careless or unsafe handling, alterations, accident, or repairs attempted or made by any persons other than the authorized Draper warranty repair agent.

This guarantee applies in lieu of any other guarantee expressed or implied and variation of its terms are not authorized.

Your Draper guarantee is not effective unless you can produce upon request a dated receipt or invoice to verify your proof of purchase within the guarantee period.

Please note that this guarantee is an additional benefit and does not affect your statutory rights.



Note: Repairs should be carried out by a qualified person.  
Helpline: (023) 8049 4344. Sales Desk: (023) 8049 4333. General Enquiries: (023) 8026 6355.

04/2001