

3/8" Reversible Air Drill

Model No.:RP17101

INSTRUCTION MANUAL



IMPORTANT:

Upon receipt of the product,
read and follow all safety rules,
operating instructions before first use it.
And retain this manual for future reference.



Contain:

- ◎ **Technical Data**
- ◎ **Important safety rules**
- ◎ **Operating Instructions**
- ◎ **Maintenance**
- ◎ **Parts List**

2014

※ Technical Data

Drilling cap.....	3/8”(10mm)
Free speed.....	1,800rpm
Avg.air consumption.....	4cfm(114l/min)
Operating pressure.....	90psi(6.3bar)
Air inlet size.....	1/4”
Air hose.....	3/8” ID
Weight.....	0.94kg
A weighted sound pressure level LPA.....	86.5dB(A), KPA=3 dB
Sound power level LWA.....	97.5 dB(A) , KWA=3 dB
Vibration in the handle.....	2.49m/s ² , K=0.74m/s ²

※ Important Safety Rules

1. Always wear safety glasses, face mask or respiratory equipment.
2. Always ensure machine is switched off before connecting to air supply.
3. Disconnect any machine from the air supply before changing accessories, 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, neck ties 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.

General safety rules

- For multiple hazards, read and understand the safety instructions before installing, operating, repairing, maintaining, changing accessories on, or working near the drill or taper. Failure to do so can result in serious bodily injury.
- Only qualified and trained operators should install, adjust or use the drill or taper.
- Do not modify this drill or taper. Modifications can reduce the effectiveness of safety measures and increase the risks to the operator.
- Do not discard the safety instructions; give them to the operator.
- Do not use the drill or taper if it has been damaged.
- Tools shall be inspected periodically to verify that the ratings and markings required by this part of ISO 11148 are legibly marked on the tool. The employer/user shall contact the manufacturer to obtain replacement marking labels when necessary.

Projectile hazards

- Be aware that the failure of the workpiece, or accessories, or even of the inserted tool itself can generate high-velocity projectiles.
- Always wear impact-resistant eye protection during the operation of the drill or taper. The grade of protection required should be assessed for each use.
- Remove the chuck key before drilling starts.

-Ensure that the workpiece is securely fixed.

Entanglement hazards

-Choking, scalping and/or lacerations can occur if loose clothing, personal jewellery, neckware, hair or gloves are not kept away from the tool and accessories.

Operating hazards

-Use of the tool can expose the operator's hands to hazards, including cuts, abrasions and heat. Wear suitable gloves to protect hands.

-Operators and maintenance personnel shall be physically able to handle the bulk, weight and power of the tool.

-Hold the tool correctly; be ready to counteract normal or sudden movements and have both hands available.

-Maintain a balanced body position and secure footing.

-High-reaction torque can be developed in the case of stalling, which can be caused by excessive loads being applied to the drill bit, by the drill bit snagging on the material being drilled into or by the drill bit breaking through the material being drilled.

-Keep hands away from the rotating chuck and drill bit.

-Release the start-and-stop device in the case of an interruption of the energy supply.

-Use only lubricants recommended by the manufacturer.

-Personal protective safety glasses shall be used; suitable gloves and protective clothing are recommended.

Repetitive motions hazards

-When using a drill or tapper to perform work-related activities, the operator can experience discomfort in the hands, arms, shoulders, neck or other parts of the body.

-While using a drill or tapper, the operator should adopt a comfortable posture whilst maintaining a secure footing and avoiding awkward or off-balanced postures. The operator should change posture during extended tasks, which can help avoid discomfort and fatigue.

-If the operator experiences symptoms such as persistent or recurring discomfort, pain, throbbing, aching, tingling, numbness, burning sensations or stiffness, these warning signs should not be ignored. The operator should tell the employer and consult a qualified health professional.

Accessory hazards

-Disconnect the drill or tapper from the energy supply before fitting or changing the inserted tool or accessory.

-Use only sizes and types of accessories and consumables that are recommended by the drill or tapper manufacturer.

-Avoid direct contact with the inserted tool during and after use, as it can be hot or sharp.

Workplace hazards

-Slips, trips and falls are major causes of workplace injury. Be aware of slippery surfaces caused by the use of the tool and also of trip hazards caused by the air line or hydraulic hose.

-Proceed with care in unfamiliar surroundings. There can be hidden hazards, such as electricity or other utility lines.

-The drill or tapper is not intended for use in potentially explosive atmospheres and is not insulated against coming into contact with electric power.

-Ensure that there are no electrical cables, gas pipes, etc., that can cause a hazard if damaged by use of the tool.

Dust and fume hazards

- Dust and fumes generated when using drills and tappers can cause ill health (for example, cancer, birth defects, asthma and/or dermatitis); risk assessment and implementation of appropriate controls for these hazards are essential.
- Risk assessment should include the dust created by the use of the tool and the potential for disturbing existing dust.
- Operate and maintain the drill or tapper as recommended in these instructions, to minimize dust and fume emissions.
- Direct the exhaust so as to minimize disturbance of dust in a dust-filled environment.
- Where dust or fumes are created, the priority shall be to control them at the point of emission.
- All integral features or accessories for the collection, extraction or suppression of airborne dust and fumes should be correctly used and maintained in accordance with the manufacturer's instructions.
- Select, maintain and replace the consumable/inserted tool as recommended in the instruction handbook to prevent an unnecessary increase in dust or fumes.
- Use respiratory protection in accordance with employer's instructions and as required by occupational health and safety regulations.

Noise hazards

- Unprotected exposure to high noise levels can cause permanent, disabling hearing loss and other problems, such as tinnitus (ringing, buzzing, whistling or humming in the ears).
- Risk assessment and implementation of appropriate controls for these hazards are essential.
- Appropriate controls to reduce the risk may include actions such as damping materials to prevent workpieces from "ringing".
- Use hearing protection in accordance with employer's instructions and as required by occupational health and safety regulations.
- Operate and maintain the drill or tapper as recommended in the instruction handbook, to prevent an unnecessary increase in the noise level.
- Select, maintain and replace the consumable/inserted tool as recommended in the instruction handbook, to prevent an unnecessary increase in noise.

Vibration hazards

- Exposure to vibration can cause disabling damage to the nerves and blood supply of the hands and arms.
- Wear warm clothing when working in cold conditions and keep your hands warm and dry.
- If you experience numbness, tingling, pain or whitening of the skin in your fingers or hands, stop using the drill or tapper, tell your employer and consult a physician.
- Operate and maintain the drill or tapper as recommended in this instruction handbook, to prevent an unnecessary increase in vibration levels.
- Do not allow the inserted tool to chatter on the workpiece, as this is likely to cause a substantial increase in vibration.
- Select, maintain and replace the consumable/inserted tool as recommended in this instruction handbook to prevent an unnecessary increase in vibration levels.
- Support the weight of the tool in a stand, tensioner or balancer, if possible.
- Hold the tool with a light but safe grip, taking account of the required hand reaction forces, because the risk from vibration is generally greater when the grip force is higher.

Additional safety instructions for pneumatic power tools

- 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 severe injury. Always check for damaged or loose hoses and fittings.

-Cold air shall be directed away from the hands.

-Whenever universal twist couplings (claw couplings) are used, lock pins shall be installed and whipcheck safety cables shall be used to safeguard against possible hose-to-tool and hose-to-hose connection failure.

-Do not exceed the maximum air pressure stated on the tool.

-Never carry an air tool by the hose.

※ Operating Instruction

Description

Good Designed for rilling, honing and hole sawing, and other heavy duty application. durable lightweight aluminum housing, variable speed trigger for precise, hand exhaust reduce noise and directs air away from work surfaces, includes a quick coupler.

Air supply

1. Ensure air valve (or trigger) is in the “off” position before connecting to the air supply.
2. You will require an air pressure of 90psi, and an air flow according to specification.
3. **WARNING!** Ensure the air supply is clean and does not exceed 90psi while operating the tool. Too high an air pressure and unclean air will shorten the product life due to excessive wear, and may be dangerous causing damage or personal injury.
4. Drain the air tank daily. Water in the air line will damage the tool.
5. Clean air inlet filter weekly.
6. Line pressure should be increased to compensate for unusually long air hoses (over 8 metres). The hose diameter should be 3/8”ID.
7. Keep hose away from heat, oil and sharp edges. Check hose for wear, and make certain that all connections are secure.

Lubrication

-An automatic in-line filter-regulator-lubricator is recommended (Fig4) as it increases tool life and keeps the tool in sustained operation. The in-line lubricator should be regularly checked and filled with air tool oil.

-Proper adjustment of the in-line lubricator is performed by placing a sheet of paper next to the exhaust ports and holding the throttle open approximately 30 seconds. The lubricator is properly set when a light stain of oil collects on the paper. Excessive amounts of oil should be avoided.

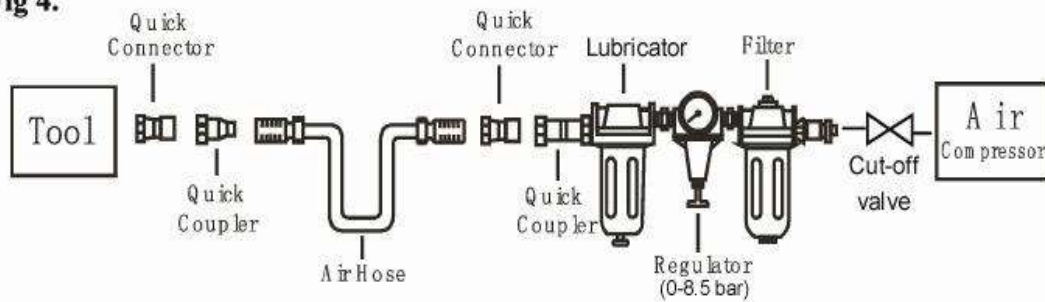
-In the event that it becomes necessary to store the tool for an extended period of time (overnight, weekend, etc.), it should receive a generous amount of lubrication at that time. The tool should be run for approximately 30 seconds to ensure oil has been evenly distributed throughout the tool. The tool should be stored in a clean and dry environment.

- It is most important that the tool be properly lubricated by keeping the air line lubricator filled and correctly adjusted. Without proper lubrication the tool will not work properly and parts will wear prematurely.
- Use the proper lubricant in the air line lubricator. The lubricator should be of low air flow or changing air flow type, and should be kept filled to the correct level. Use only recommended lubricants, specially made for pneumatic applications. Substitutes may harm the rubber compounds in the tools O-rings and other rubber parts.

IMPORTANT!!!

If a filter/regulator/lubricator is not installed on the air system, air operated tools should be lubricated at least once a day or after 2 hours work with 2 to 6 drops of oil, depending on the work environment, directly through the male fitting in the tool housing.

Fig 4.



Loading and operation

Ensure you read, understand and apply safety instructions before use.

1. Connect the tool to the air hose.
 2. Press the trigger to operate the tool..
 3. To change direction push the button at the top of the handle. Direction of .R. for reverse and “F” for forward
 4. The flow of air may be regulated by adjusting flow valve at the base of the handle.
 5. Ensure the air supply is clean and does not exceed 90psi while operating the tool. Too high an air pressure and unclean air will shorten the product life due to excessive wear, and may be dangerous causing damage or personal injury.
 6. Keep children away from tool and workplace when using the tool.
- DO NOT use any additional force upon the wrench in order to remove a nut.
DO NOT allow tool to free run for an extended period of time as this will shorten its life

※ Maintenance

Disconnect tool from air supply before changing accessories, servicing or performing maintenance. Replace or repair damaged parts. *Use genuine parts only. Non-authorised parts may be dangerous*

1. Lubricate the air tool daily with a few drops of air tool oil dripped into the air inlet
2. DO NOT use worn, or damaged tool.
3. Loss of power or erratic action may be due to the following:
 - a) Excessive drain on the air line. Moisture or restriction in the air pipe. Incorrect size or type of hose connectors. To remedy check the air supply .
 - b) Grit or gum deposits in the drill may also reduce performance. If your model has an air strainer (located in the area of the air inlet), remove the strainer and clean it.
5. When not in use, disconnect from air supply, clean tool and store in a safe, dry, childproof location.

※ Trouble Shooting

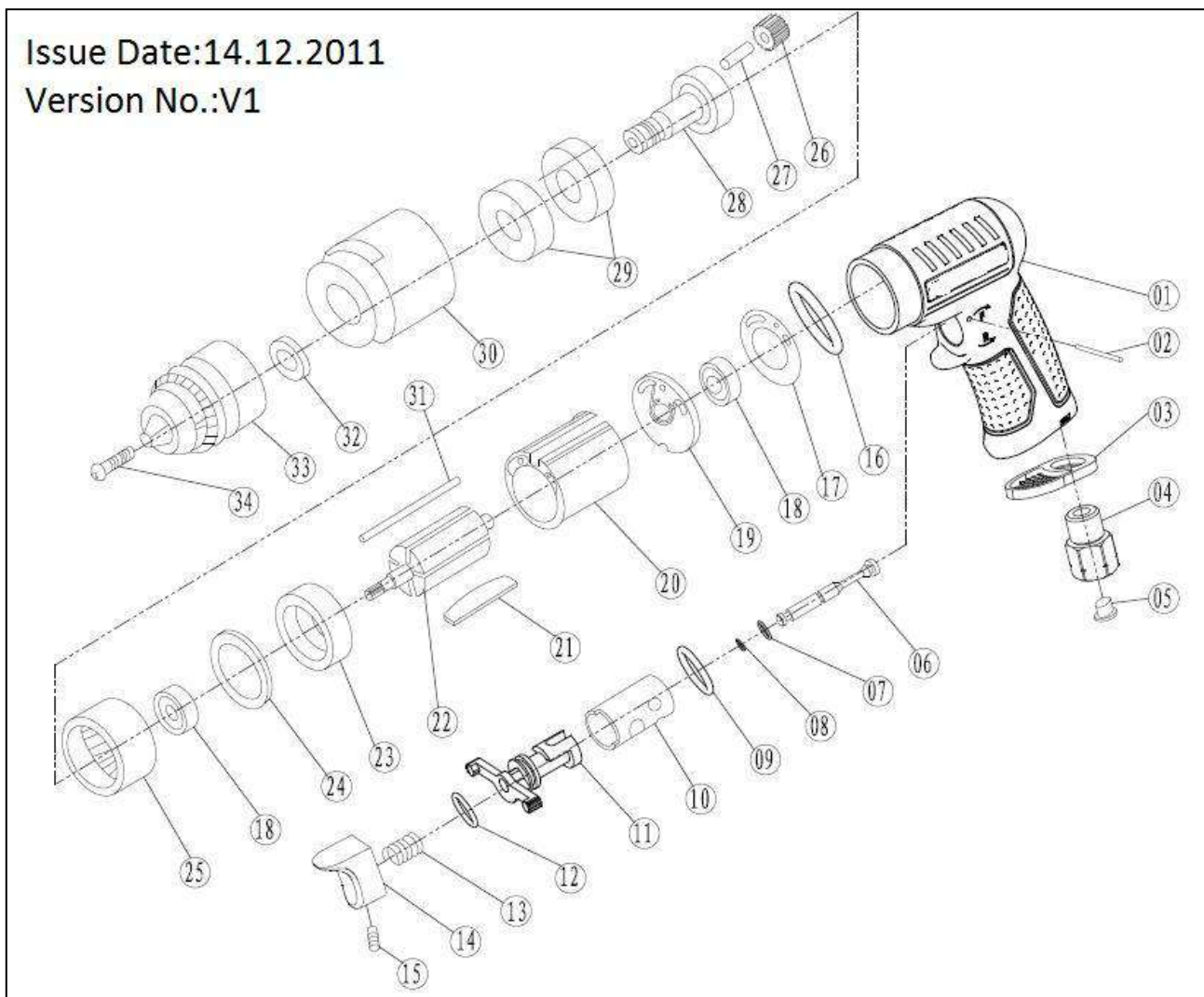
The following form lists the common operating system with problem and solutions. Please read the form carefully and follow it.

If any of the following symptoms appears during your operating, stop using the tool immediately, or serious personal injury could result. Only a qualified persons or an authorized service center can perform repairs or replacement of tool.

Disconnect tool from air supply before attempting repair or adjustment. When replacing O-rings or Cylinder, lubricate with air tool oil before assembly.

PROBLEMS	POSSIBLE CAUSES	REMEDIES
Tool runs at normal speed but loses under load	<ul style="list-style-type: none">■ Motor parts worn.■ Cam clutch worn or sticking due to lack of lubricant.	<ul style="list-style-type: none">■ Lubricating clutch housing.■ Check for excess clutch oil. Clutch cases need only be half full. Overfilling can cause drag on high speed clutch parts, ie. a typical oiled/lubricated wrench requires 1/2 ounce of oil. <p>GREASE LUBRICATED:NOTE: 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">■ Motor parts jammed with dirt particles■ Power regulator in closed position■ Air flow blocked by dirt.	<ul style="list-style-type: none">■ Check air inlet filter for blockage.■ Pour air tool lubricating oil into air inlet as per instructions.■ Operate tool in short bursts quickly reversing rotation back and forth where applicable.■ Repeat above as needed.
Tools will not run. Air flows freely from exhaust	<ul style="list-style-type: none">■ One or more motor vanes stuck due to material build up.	<ul style="list-style-type: none">■ Pour air tool lubricating tool into air inlet.■ Operate tool in short bursts of forward and/or reverse rotation where applicable.■ Tap motor housing gently with plastic mallet.■ Disconnect supply. Free motor by rotating drive shank manually where applicable
Tool will not shut off	<ul style="list-style-type: none">■ ‘O’ rings throttle valve dislodged from seat inlet valve.	<ul style="list-style-type: none">■ Replace ‘O’ ring .
Note: Repairs should be carried out by a qualified person.		

※ Explode drawing & Parts List



No.	Description	Qty.	No.	Description	Qty.	No.	Description	Qty.
1	Housing	1	13	Spring	1	25	Gear wheel	1
2	Pin	1	14	Trigger	1	26	idle gear	3
3	Exhaust Deflector	1	15	Bolt	1	27	idle gear pin	3
4	Air Inlet plug	1	16	O-ring	1	28	Idle Gear seat	1
5	Dust cap	1	17	Gasket	1	29	Bearing	2
6	Lockage pin	1	18	Bearing	2	30	Clamp nut	1
7	O-ring	1	19	End plate	1	31	steel wire	1
8	O-ring	1	20	cylinder	1	32	gasket	1
9	O-ring	1	21	Rotor blade	5	33	Chuck	1
10	Copper pipe	1	22	rotor	1	34	Chuck screw	1
11	Controller	1	23	Front Plate	1	35		
12	O-ring	1	24	gasket	1	36		

If any parts are missing or damaged, or if you have any questions, please contact to rongpeng company.