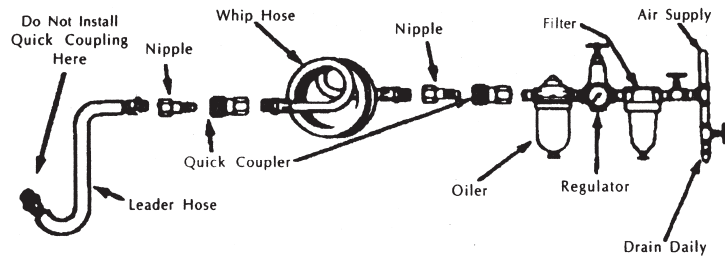


Air Supply

Drills of this class operate on a wide range of air pressure. It is recommended that air pressure of these tools measures 90 PSI at the tool while running free. Higher pressure and unclean air will shorten the tool's life because of faster wear and may create a hazardous condition.

Water in the air line will cause damage to the tool. Drain the air tank daily. Clean the air inlet filter screen on at least a weekly schedule. The recommended hookup procedure can be viewed in the illustration below.



The air inlet, used for connecting air supply, has standard 1/4" NPT American Thread.

Line pressure should be increased to compensate for unusually long air hoses (over 25 feet). Minimum hose diameter should be 1/4" I.D. and fittings should have the same inside dimensions.

Operating Instructions

Locate center of new hole by using a center punch. Place drill bit tip in punch mark. Hold drill square with work and start motor. Apply steady, even pressure. Do not force. Too much pressure can cause bit to break or over heat and can cause personal injury. Too little pressure will keep bit from cutting and cause it to over heat.

Reduce pressure just before bit cuts through the work. When bit has penetrated work and is spinning freely, take it from the work while the motor is running, then turn off drill.

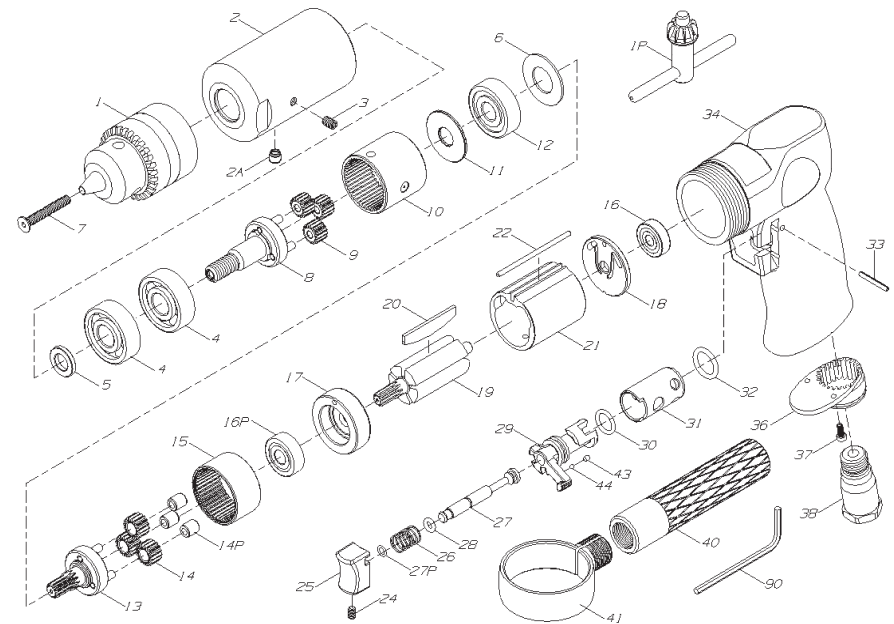
If the drill jams in the work, release throttle immediately. Disconnect the drill before removing bit and determining cause of trouble. Do not attempt to free the bit by starting and stopping the motor. When changing bits, always disconnect the tool from the air line. A faulty start can cause personal injury.

Maintenance

Other factors outside the tool may cause loss of power or erratic action. Reduced compressor output, excessive drain on the air line, moisture or restriction in air pipes or the use of hose connections of improper size or poor condition may reduce air supply. Grit or gum deposits in the tool may cut power and may be corrected by cleaning the air strainer and flushing out the tool with gum solvent oil or an equal mixture of SAE#10 oil and kerosene. If outside conditions are in order and tool is out-of-warranty, disconnect tool from hose, disassemble tool, replace worn or damaged parts, clean, reassemble, and re-lubricate, or take tool to any air tool service center.



1/2" REVERSIBLE DRILL KTI-84229



Index No.	Part No.	Description	No. Req'd	Index No.	Part No.	Description	No. Req'd
1	147737	1/2" Chuck	1	21	126329	Cylinder	1
1P	147737-A	Chuck Key	1	22	187822	Motor Pin	1
2	157702	Clamp Nut	1	24	127810-A	Set Screw	1
2A	103633-B	Ball Cap	1	25	127810	Trigger	1
3	106016	Set Screw	1	26	117711	Spring	1
4	6201-Z00A	Ball Bearing	2	27	137722	Throttle Valve	1
5	103328-A	Washer	1	27P	O-0400-100	O-Ring	1
6	157706	Spacer	1	28	O-0400-200	O-Ring	1
7	147841	Screw	1	29	137724	Reverse Valve	1
8	157708A	Planet Carrier	1	30	O-1000-190	O-Ring	1
9	157709	Planet Gear	3	31	137726	Reverse Bushing	1
10	157710	Internal Gear	1	32	O-1280-240	O-Ring	1
11	157711	Spacer	1	33	P-0025-200	Pin	1
12	6200-ZZ0A	Ball Bearing	1	34	137717	Housing	1
13	187725A	Planet Carrier	1	34P	137717P	Housing Sleeve	1
14	187724	Planet Gear (inc.#14P)	3	36	137729	Exhaust Deflector	1
14P	103323-A	Planet Gear Bushing	3	37	116533	Screw	2
15	187722	Internal Gear	1	38	137731	Air Inlet	1
16	0608-ZZ0A	Ball Bearing	1	40	137733	Handle	1
16P	0626-ZZ0A	Ball Bearing	1	41	147735	Clamp Ring	1
17	126333	Bearing Case	1	43	137719	Detent Rubber	1
18	126328	Rear End Plate	1	44	103633-D	Steel Ball	1
19	126330	Rotor	1	90	137701-A	Allen Wrench	1
20	106316	Rotor Blade	5				

Notice

90% of all Air Tool problems are caused by moisture in air lines

This problem can be avoided by using Air Tool Lubricant (See "Lubrication" & "Air Supply" sections of this manual)

FAILURE TO OIL can void your warranty

1 Year Limited Warranty

K-Tool International air tools are warranted against defects in materials or workmanship for 1 year from date of purchase. We will repair or replace at our option any defective part or unit which proves to be defective in material or workmanship. The foregoing obligation is K-Tool International's sole liability under this or any implied warranty, and, under no circumstances, shall it be liable for any incidental or consequential damages.

This warranty applies to the basic tool. It does not apply to normal wear and tear on attached accessories/consumable products such as drill chucks, backing pads for sanders, punch and die for nibblers, air hammer retainers, spray gun cups, or "kit" accessories, etc.

Naturally, repairs required by abuse, misuse, damage, or repair attempts by others are not covered by this warranty.

Return tools to Warranty Center transportation prepaid. Be certain to include your name, address, evidence of the purchase date, and description of the suspected defect.

Please include with your returned tool a short note explaining the problem. Should you experience a problem within your warranty period, ship prepaid to:



KT-84229 1/2" REVERSIBLE DRILL

Operating Instructions, Parts List,
Warranty, & Warranty Repair Center

IMPORTANT! Read carefully before operating this tool. Failure to operate any power tool properly can result in personal injury and/or property damage!

SPECIFICATIONS

Speed (RPM)	800	Spindle Size	3/8" - 24
Chuck Size	3/8"	Overall Length	7-1/2"
Air Pressure (PSI)	90	Shipping Weight (LBS)	3
Hose Size (ID)	3/8"	Avg. Air Consump.. (cfm)	4
Air Inlet (NPT)	1/4"		

Safety

1. Before starting tool, verify the direction of the rotation is correct for the operation to be performed.
2. Do not change the direction of rotation while the tool is running.
3. Never hold work in your hand, lap, or against other parts of the body.
4. Never take any risks with your eyes. Always wear approved eye protection.
5. Have throttle in "off" position when connecting to air supply.
6. Disconnect tool before performing service, changing accessories, or when not in use.
7. Always use tool a safe distance from other people in work area.
8. Secure work with clamps or vise so both hands are free to operate tool. Don't overreach. Keep proper footing and balance at all times.
9. Maintain tools with care. Keep tools clean and oiled for best and safest performance. Follow instructions for lubricating and changing accessories. Wiping or cleaning rags and other flammable waste materials must be placed in a tightly closed metal container and disposed of later in the proper fashion.
10. Do not wear loose or ill fitting clothing; remove watches and rings.
11. Use proper hose and fitting. Never use quick change couplings attached at tool. They add weight and could fail due to vibration. Instead, add a hose whip and connect coupling between air supply and hose whip, or between hose whip and leader hose.
12. Don't force tool. It will do the job better and safer at the rate of which it was designed.
13. Don't abuse hoses or connectors. Never carry tool by the hose or yank it to disconnect from power supply. Keep hoses from heat, oil, and sharp edges. Check hoses for weak or worn condition before each use, making certain that all connections are secure.

Lubrication

Lubricate the tool daily with a good grade of air tool oil. If no air line oiler is used, run a teaspoon of oil through the tool. The oil can be squirted into the tool air inlet or into the hose at the nearest connection to the air supply, then run the tool. A rust inhibitive oil such as "Marvel Mystery" oil is acceptable for air tools.