

814123-000

INSTRUCTIONS AND WARNING FOR SAFETY USE

DRILLS TAPPERS



SAFETY is a primary consideration when using the air tool. The tool should be used in the right way with good understanding of how to use the tool safely. Read and fully understand all the instructions before use of the tool. If not, it might be dangerous to use the tool. Keep this instruction manual for future reference. Additional safety information is available from the manufacturer or manufacturer's agent in your country when necessary. Do not remove or allow to become obscured any labels and/or markings shown on the tool.

INTENDED USE

The tool is designed to be used with the drill bit or the tap for drilling or tapping a hole. Consult the manufacturer when using the tool for reaming and tube expanding purposes. Do not use the tool for any other purpose.

PROTECTIVE EQUIPMENT

Always wear necessary protective equipments such as an eye protector, an ear protector, a face shield, a safety apron, a helmet, gloves and other necessary protective clothing. Use protective barriers where necessary.



CORRECT AIR HOSE AND FITTINGS

- Make sure that the air supply hose is oil resistant and suitable for the working pressure. It is recommended that it has an abrasion resistant exterior surface.
- Always use the correct and clean air hose and fittings and check that they are all in good condition and are properly installed. Do not use damaged, frayed or deteriorated hose and fittings. Replace them when necessary.
- Always store the hose properly away from heat sources and sunlight after use and inspect before use. A hose failure can cause injury.

- The hose may come off and whip if the hose and fittings are not correctly used nor properly installed.
- The use of a swivel coupling is recommended so that rotating the tool will not distort or cause disconnection of the hose.
- A long length of hose should be avoided. A short length of hose should be used.
- Be sure to connect the hose to the tool before switching on the air supply.
- Do not reform the hose and fittings.

MAXIMUM AIR PRESSURE WITH TOOL IN OPERATION

The tool is designed for a working pressure of 6.3 bar. Make sure that air pressure is maintained at less than 6.3 bar with the tool in use. Air regulator is recommended to be fitted as close as practicable to the tool in use.

AIR LINE FILTER AND LUBRICATOR

It is necessary to get rid of moisture and dirt from the air line and give proper lubrication. If moisture, dirt and/or other impurities are put in the tool, it may cause seize of the motor part, unnecessary wear of parts and reduced performance. Air filter and air lubricator are recommended to be fitted as close as practicable to the tool in use.

LUBRICANTS

- Seek medical advice immediately if any lubricant should contaminate the eyes or be accidentally ingested.
- If air line lubricator is not used, lubricate the motor part with ISOVG32 turbine oil or equivalent oil daily before use. Do not burst into full speed operation after lubrication, or it may cause overspeed. Lithium system grease is recommended for lubrication of bearings, gears and gear cases. Lubricate them when giving maintenance or periodical inspection. Following are recommended lubricants.

MOTOR PART

Castrol	Alphasyn T32
Mobil	Mobil SHC 624
Texaco	RD Lube 32
Kuwait Petroleum	Q8 Schuman ISO VG32
Statoil	Mereta 32

BEARING AND GEAR

BP	Energese LS-EP2
Castrol	Spheerol EP L2
Esso	Beacon 2
Shell	Alvania Grease EP2
Mobil	Mobilplex 47
Texaco	Multifak EP2
Kuwait Petroleum	Q8 Rembrandt EP

- When handling lubricants regularly, wear suitable clothes of impervious material. Clothing contaminated by lubricants should be changed.

AIR EXHAUST

Because of possible contaminants in the compressed air exhaust, the area where the tool is being used should be well ventilated.

MOUNTING AND DISMOUNTING DRILL BIT AND TAP

When mounting and dismounting the drill bit and the tap, be sure to disconnect the tool from the air line or to shut off the air line.

CORRECT DRILL BIT OR TAP AND CORRECT CHUCK

Make sure that the drill bit or the tap fits with the chuck or the socket.

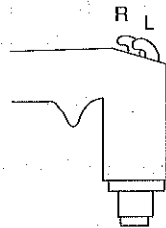
CHECK OF DRILL BIT AND TAP BEFORE USE

- Handle and store the drill bit and the tap with care in accordance with their manufacturer's instructions.
- Do not use the drill bit and the tap with chips, cracks or other damages.
- Do not use an extremely worn drill bit and tap.

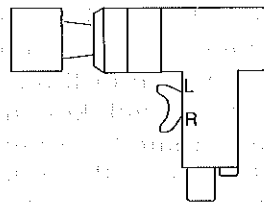
REVERSING OPERATION

- All the tools with the arrow label showing both clockwise and anticlockwise directions are reversible types and reversing can be made by operating the reversing device. Make sure of the position of the reversing device before use, especially when using the tap.
- FT-6BX-1 and FT-8PX-1 have the following reversing system. "R" signifies the right-hand rotation (clockwise) and "L" the left-hand rotation (anticlockwise).

FT-6BX-1



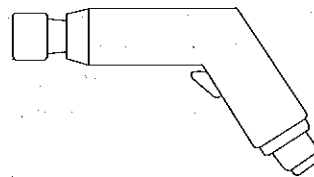
FT8PX-1



- The other tappers have a push-pull reversing system. Push the tool against a workpiece, the tool runs in the clockwise rotation. When pulling the tool, it runs in the anticlockwise rotation.

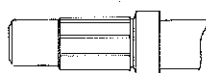
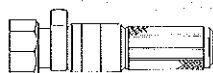
PUSH = CLOCKWISE ROTARION

PULL = ANTICLOCKWISE ROTARION



- The following drills are reversible types. The tools are equipped with a reversing lever or ring on the control handle.

FRD-14R-11	FRD-16R-11	FRD-16R-12	FRD-51R-1	FRD-52R-1	FRD-65R-1
FRD-20R-11	FRD-20R-12	FRD-23R-11	FRD-65R-1	FRD-100R-1	
FRD-23R-12	FRD-25R-11	FRD-28R-11	F-22RCR	F-32RCR	
FRD-32R-11	FRD-32R-12	FRD-40R-11			
FRD-50R-11	FCD-23R-11	FCD-23R-12			
FCD-32R-11	FCD-50R-11	FCD-75R-11			
FCD-100R-11					



SUPPORT HANDLE

Reaction torque is developed when the drill bit or the tap goes through the bottom of the hole or is fixed in a jam. It is recommended to use the support handle when using the tool.

CORRECT WORKING WITH TOOL

- Always consult the manufacturer before attempting to install and use the tool if there should be any doubt about the safe and correct use of the tool or the accessory or attachment.
- Do not modify the tool without getting an agreement from the manufacturer.
- Do not use the tool for other purposes except drilling, reaming, tube expanding and boring in metal, wood and other materials.
- Disconnect the tool from the air supply when the tool is not in use.
- Make sure that the tool control is in the "off" position before turning on the air supply.
- Be sure to use the tool only in a safe, suitable working position.
- Do not use the tool in the place which is filled with gas or where may create a hazard. The collision or bump of the tool with the work or another object may cause sparks and there is a possibility that a fire or an explosion may take place.
- The tool is not earthed. Beware of electrical installations.
- Make sure before use that the tool runs as per its specifications.
- Never use or continue to use the tool when you feel vibration, hear unusual sound, notice unusual changes in speed and find any other irregularities.
- The tool should be used according to its capacity and only for its own purpose.
- Avoid any bumping action and excessive pressure.
- Be sure to mount the drill bit and the tap properly and firmly.
- Do not leave the chuck key in the chuck.
- Be careful that a sudden reaction torque is developed when the drill goes through the bottom of the hole.
- Be careful that a rapid reaction torque is developed when the drill bit or the tap is fixed in a jam.
- It is strongly recommended that heavy drills should be used with permanent devices against reaction torque.
- Be careful that the workpiece may form sharp edges when the drill bit breaks through.
- Do not hold the throttle valve lever on the start position with a tape etc. When the drill bit or the tap is fixed in a jam, the throttle valve handle can not be returned to the stop position. It is very dangerous.
- Avoid unnecessary run of the tool with the drill bit or the tap at no load. The drill bit or the tap may come off. It is very dangerous.
- Be careful that long hair, loose clothing, ties, etc. are not drawn in the tool.
- Make sure that the workpiece is firmly secured so as to avoid kick-back, moving or turning.
- Be sure to apply thrust in line with the direction of drilling or tapping.
- Be careful that exhausted air may not blow up dust in the workplace.
- When air supply is interrupted, return the throttle valve handle to the stop position.
- Be sure to keep hands away from the drill bit and the tap in use.
- Remember that the tool is still running-on for a while even after stopping operation. It is very dangerous to touch the drill bit and the tap soon after stopping operation.
- Do not lay down the tool until the drill bit or the tap completely stops moving.
- Remember that the drill bit and the tap may break during operation.

- When the drill bit or the tap is fixed in a jam, do not wrangle the tool to make it free. Shut off the tool and ease the drill bit or the tap free. Check that the drill bit or the tap is still correctly secured and not damaged before continuing operation.
- Be careful not to cause an unintentional start when lifting and laying down the tool.
- When the tool is fixed to a balancer or a similar device, make sure that the tool is securely fixed.
- Do not pull the tool over a floor in its hose.
- Do not use the air hose for supporting, lifting or lowering the tool.
- Make sure that no bystanders are in the dangerous zone.
- Do not leave the tool in operation.
- Do not start the operation of the tool when it is laid down.
- Stop the operation of the tool when moving to a different area or job.

VIBRATION

The operator is exposed to get the risk caused by vibrations from both their levels and length. Frequent and prolonged exposure to high intensive vibrations can cause disorders, especially to hands and arms. Disorders caused by vibrations depend on many factors such as type of tool, type of work, individual operator and his physical conditions, working conditions, working period, design of tool, temperature, etc. The vibration level of each tool is shown on the attached sheet and the operator must use the tool in accordance with the total daily usage of ISO 5349.

NOISE

The operator must wear the ear protector when the noise level at his position exceeds 85dB(A). It is recommended that the operator wears the ear protector even if the noise level is less than 85dB(A). The noise level of each tool is shown on the attached sheet.

TEMPERATURE

The handles used for gripping the tool are designed to be free from high and low temperatures for the daily continuous operation. The temperature on the handles can be lowered by cold weather and can accelerate the risk caused by vibrations. In cold weather, wear suitable gloves to keep hand warm.

KEEPING TOOL AFTER USE

- Keep the tool clean so that it can be used properly and safely whenever necessary.
- When storing the tool after use, keep the tool in a safe way.

MAINTENANCE AND REPAIRS

- The tool must be properly maintained and tested by competent and trained personnel. At any sign of malfunction or unusual behaviour, the tool should be taken out of service for examination and repair. If necessary, you can get necessary information and instructions for repairs and maintenance from us or our importer in your country.
- It is recommended to dismantle the tool for overhauling and cleaning periodically after 500 hours of operation or once every six months.
- When replacing parts, be sure to use genuine Fuji Air Tools replacement parts. If not, it may result in decreased performance and increased maintenance.

- When giving maintenance or repairs, be sure to disconnect the tool from the air line or to shut off the air line.
- Before clearing the tool for use, make sure that it has been correctly assembled with all fasteners tightened.
- Check the rpm. of the tool without mounting the drill bit, the tap, the socket or the adaptor on the spindle after each maintenance or repairing service.

TOOLS NECESSARY TO ASSEMBLE AND DISASSEMBLE MODELS

Contact the manufacturer or manufacturer's agent in your country.

DISPOSAL OF TOOL

The tool is made of steel, casting iron, brass, bronze casting, aluminum alloy, rubber and plastic components or using some of those materials. When disposing of the tool, be sure not to cause pollution to human beings and environment.

DRILL BIT AND TAP

Neither drill bit nor tap are provided as accessories with the tool.

TOOLS NECESSARY TO MOUNT AND DISMOUNT DRILL BIT AND TAP

Chuck key is provided with the tool which is equipped with the drill chuck. Hexagonal pin wrench is provided with the tool which is equipped with the tapping chuck.

MARKING ON TOOL

The following are marked on the tool.

-FUJI AIR TOOLS
OSAKA JAPAN

or

FUJI JAPAN

- Model Number
- Number in 6 digits
- Year of Production
- Free Speed
- Air Pressure

This is the manufacturer, Fuji Air Tools Co., Ltd.,
1-14, 2-chome, Higashinari-ku, Osaka, 537 Japan.

Model Number is named according to our own naming way.

This is Serial Number of the tool for identification.

This is shown in 4 digits.

This is the rpm. of the tool.

6.3 bar is Max. air pressure designed for the tool.

This CE mark shows conformity with EC directives.



Symbol Illustration of Operator's instructions. Read all the instructions and warning given here before use.



Symbol Illustration of Warning and Caution. The should be used in the right way with good understanding of how to use the tool safely. If not, it might be dangerous to use the tool.

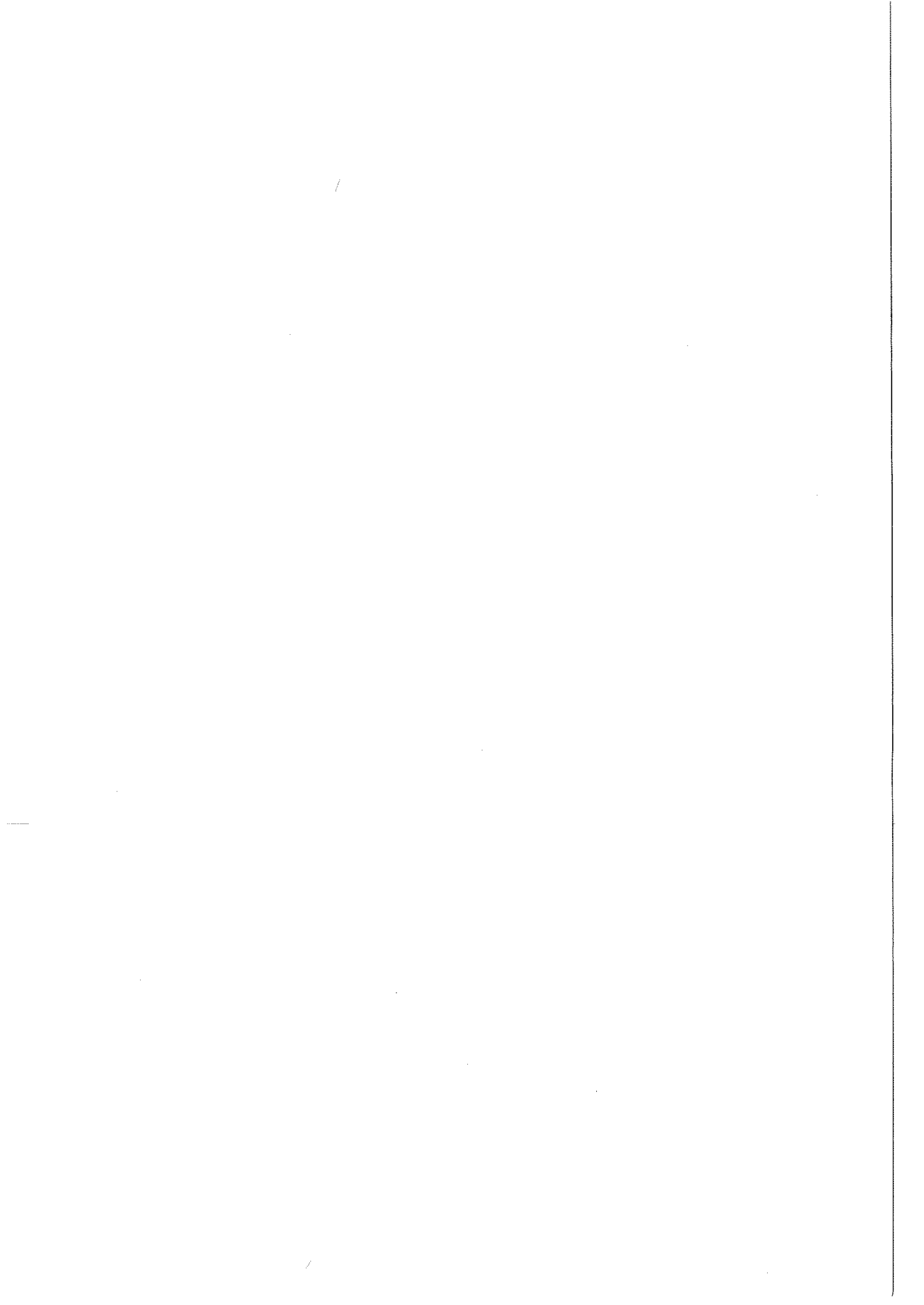


This signifies the direction of the rotation.



MANUFACTURER:
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