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1-800-4-DEWALT • www.dewalt.com

**INSTRUCTION MANUAL
GUIDE D'UTILISATION
MANUAL DE INSTRUCCIONES**

INSTRUCTIVO DE OPERACIÓN, CENTROS DE SERVICIO Y PÓLIZA
DE GARANTÍA. **ADVERTENCIA:** LÉASE ESTE INSTRUCTIVO ANTES
DE USAR EL PRODUCTO.

DEWALT®

DWMT70773L

1/2" Impact Wrench Heavy Duty

Clé à chocs de 12,7 mm (1/2 po) service intensif

Llave de impacto de 12,7 mm (1/2") para servicio pesado

DWMT70773L

1/2" IMPACT WRENCH HEAVY DUTY

- A. 1/2" Square Drive
- B. Trigger
- C. Forward/Reverse Switch
- D. Ergonomic Handle
- E. 1/4" Air Inlet
- F. Shock Resistant Housing Bumpers
- G. Composite Body
- H. Twin Hammer Mechanism
- I. Exhaust
- J. Adjustable Power Dial

SPECIFICATIONS

MODEL	DWMT70773L
SQUARE DRIVE	1/2"
CLUTCH TYPE	Twin Hammer
MAXIMUM TORQUE (REVERSE)	650 Ft.Lbs (880 Nm)
FREE SPEED (@90PSI)	7500 RPM
BLOWS PER MINUTE	1100 BPM
NET WEIGHT	4.63 LBS (2.1Kg.)
EXHAUST TYPE	Handle
AVERAGE AIR CONSUMPTION FREE SPEED	41.5SCFM (19.6 L/s) 5.9 CFM (2.8 L/s)
AVERAGE AIR CONSUMPTION AT LOAD	27.2SCFM (12.8 L/s) 3.9 CFM (1.8 L/s)
AIR INTLET SIZE	1/4" NPT(F)
RECOMMENDED HOSE SIZE	3/8" (10MM)
MAX. AIR PRESSURE	90 PSI

FIG.1



Definitions: Safety Guidelines

The definitions below describe the level of severity for each signal word. Please read the manual and pay attention to these symbols.

▲ DANGER: Indicates an imminently hazardous situation which, if not avoided, **will** result in **death or serious injury**.

▲ WARNING: Indicates a potentially hazardous situation which, if not avoided, **could** result in **death or serious injury**.

▲ CAUTION: Indicates a potentially hazardous situation which, if not avoided, **may** result in **minor or moderate injury**.

CAUTION: Used without the safety alert symbol indicates a potentially hazardous situation which, if not avoided, **may** result in **property damage**.

Your risk from these exposures varies, depending on how often you do this type of work. To reduce your exposure to these chemicals: work in a well ventilated area, and work with approved safety equipment, always wear **OSHA/MSHA/NIOSH** approved, properly fitting face mask or respirator when using such tools. When using air tools, basic safety precautions should always be followed to reduce the risk of personal injury.

▲ WARNING: This product contains chemicals, known to the State of California to cause cancer, and birth defects or other reproductive harm. Wash hands after handling.

SAVE THESE INSTRUCTIONS

▲ WARNING:



Improper operation or maintenance of this product could result in serious injury and property damage. Read and understand all warnings and operating instructions before using this equipment. When using air tools, basic safety precautions should always be followed to reduce the risk of personal injury.

▲ WARNING:



Read and understand this instruction manual and tool labels before installing, operating or servicing this tool. Keep these instructions in a safe accessible place.



Operators and others in work area must wear **ANSI Z87.1 CAN/CSA Z94.3** approved safety glasses with side shields.



Operators and others in work area must wear ear protection.



Oil daily for optimal performance.

IF YOU HAVE ANY QUESTIONS OR COMMENTS ABOUT THIS OR ANY DEWALT TOOL, CALL US TOLL FREE AT: **1-800-4-DEWALT (1-800-433-9258)**

IMPORTANT SAFETY INSTRUCTIONS

▲ WARNING: Some dust created by power sanding, sawing, grinding, drilling, and other construction activities contains chemicals known to the State of California to cause cancer, birth defects or other reproductive harm. Some example of these chemicals are:

- Lead from lead-based paints
- Crystalline silica from bricks and cement and other masonry products
- Arsenic and chromium from chemically-treated lumber

▲ WARNING:

- *Avoid prolonged use: repetitive motion or exposure to vibration may be harmful to your hands or arms. Use gloves to provide extra cushion, take frequent rest periods, and limit daily time of use.*
- **DO NOT** Use oxygen or reactive gases; explosion may occur.
- **DO NOT** Exceed air pressure of 90 PSI.
- *Read all manuals included with this product carefully. Be thoroughly familiar with the controls and the proper use of the equipment.*
- *Only persons well acquainted with these rules of safe operation should be allowed to use the air tool.*
- **DO NOT** exceed any pressure rating of any component in the system.
- *Disconnect the air tool from air supply before changing tools or attachments and during non-operation.*
- *Always wear safety glasses and ear protection during operation. Always wear approved safety glasses with shields. Always wear approved hearing protection.*
- **DO NOT** wear loose fitting clothing or apparel which contains loose straps or ties, etc. Which could become entangled in moving parts of the tool and results in serious personal injury.
- **DO NOT** wear jewelry, watches, identifications, bracelets, necklace, etc. When operating any tool, they may become caught in moving parts and result in serious injury.
- **DO NOT** depress trigger when connecting the air supply hose.
- *Always use attachments designed for use with air powered impact tools.*
- **DO NOT** use damaged or worn attachments.

▲ WARNING:

DO NOT use hand tool sockets. Use impact quality sockets only.

▲ WARNING:

- *Never trigger the tool when not applied to a work object. Attachments must be securely attached. Loose attachments can cause serious injury.*
- *Protect air lines from damage or puncture.*
- *Never point an air tool at oneself or any other person. Serious injury could occur.*
- *Check air hoses for weak or worn condition before each use. Make sure all connections are secure.*
- *Keep all nuts, bolts and screws tight and ensure equipment is in safe working condition.*
- **DO NOT** put hands near or under moving parts.



⚠ WARNING: RISK OF EXPLOSION OR FIRE

WHAT CAN HAPPEN

- Abrasive tools such as sanders and grinders, rotating tools such as drills, and impact tools such as wrenches, hammers, and reciprocating saws are capable of generating sparks which could result in ignition of flammable materials.
- Exceeding the maximum pressure rating of tools accessories could cause an explosion resulting in serious injury.

HOW TO PREVENT IT

- Never operate tools near flammable substances such as gasoline, naphtha, cleaning solvents, etc.
- Work in a clean, well ventilated area free of combustible materials.
- Never use oxygen, carbon dioxide or other bottled gases as a power source for air tools.
- Use compressed air regulated to a maximum pressure at or below the rated pressure of any attachments.



⚠ WARNING: RISK TO BREATHING (ASPHYXIATION)

WHAT CAN HAPPEN

- Abrasive tools, such as grinders, sanders, and cut-off tools generate dust and abrasive materials which can be harmful to human lungs and respiratory system.
- Some materials such as adhesives and tar contain chemicals whose vapors could cause serious injury with prolonged exposure.

HOW TO PREVENT IT

- Always wear **MSHA/NIOSH** approved, properly fitting face mask or respirator when using such tools.
- Always work in a clean, dry, well ventilated area.



⚠ CAUTION: RISK FROM NOISE

WHAT CAN HAPPEN

- Long term exposure to noise produced from the operation of air tools can lead to permanent hearing loss.

HOW TO PREVENT IT

- Always wear **ANSI (S3.19)** hearing protection.



⚠ **WARNING: RISK OF INJURY**

WHAT CAN HAPPEN

- Tools left unattended, or with the air hose attached can be activated by unauthorized persons leading to their injury or injury to others.
- Air tools can propel loose objects or other materials throughout the work area.
- Air tools can become activated by accident during maintenance or tool changes.
- A wrench or a key that is left attached to a rotating part of the tool increases the risk of personal injury.

HOW TO PREVENT IT

- Remove air hose when tool is not in use and store tool in a secure location away from reach of children and/or untrained users.
- Use only parts, fasteners, and accessories recommended by the manufacturer.
- Keep work area clean and free of clutter. Keep children and others away from work area during operation of the tool.
- Keep work area well lit.
- Remove air hose to lubricate, add, or replace sockets.
- Never carry the tool by the hose.
- Avoid unintentional starting. Don't carry hooked-up tool with finger on trigger.
- Repair service should be done only by an authorized service representative.
- Remove adjusting keys and wrench before turning the tool on.

WHAT CAN HAPPEN

- Using inflator nozzles for duster applications can cause serious injury.
- Air tools can cause the work piece to move upon contact leading to injury.
- Loss of control of the tool can lead to injury to self or others
- Poor quality, improper, or damaged tools such as grinding wheels, chisels, sockets, drill, etc., can fly apart during operation, propelling particles throughout the work area causing serious injury.

HOW TO PREVENT IT

- **DO NOT** use inflator nozzles for duster applications.
- Use clamps or other devices to prevent movement.
- Never operate tool while under the influence of drugs or alcohol.
- Don't overreach. Keep proper footing and balance at all times.
- Keep handles dry, clean, and free from oil and grease.
- Stay alert. Watch what you are doing. Use common sense. Do not operate tool when you are tired.
- Always use tool attachments rated for the speed of the power tool.
- Never use tools which have been dropped, impacted or damaged by use.
- Use only impact grade sockets on an impact wrench.
- Do not apply excessive force to the tool – let the tool perform the work.



⚠ WARNING: RISK OF INJURY (CONTINUED)

WHAT CAN HAPPEN

- Improperly maintained tool and accessories can cause serious injury.
- There is a risk of bursting if the tool is damaged.
- Fasteners could ricochet or be propelled causing serious injury or property damage.

HOW TO PREVENT IT

- Maintain the tool with care.
- Check for misalignment or binding of moving parts, breakage of parts, and any other condition that affects the tool's operation. If damaged, have the tool serviced before using.
- Never point discharge of tool at self or others.
- Do not pull trigger unless tool contact safety device is against work surface.
- Never attempt to drive fasteners into hard surfaces such as steel, concrete, or tile.
- Take care to avoid driving a fastener on top of another fastener.
- Position tool carefully so that fasteners will be delivered to the proper location.



⚠ WARNING: RISK OF ELETRIC SHOCK

WHAT CAN HAPPEN

- This tool is not provided with an insulated gripping surface. Contact with a "live" wire will also make exposed metal parts of the tool "live" and can result in electrocution or death.

HOW TO PREVENT IT

- Avoid body contact with grounded surfaces such as pipes, radiators, ranges, and refrigerators. There is an increased risk of electric shock if your body is grounded.
- Thoroughly investigate the workpiece for possible hidden wiring before performing work.



⚠ **WARNING: RISK FROM FLYING OBJECTS**

WHAT CAN HAPPEN

- Air powered equipment and power tools are capable of propelling materials such as metal chips, saw dust, and other debris at high speed, which could result in serious eye injury.
- Compressed air can be hazardous. The air stream can cause injury to soft tissue areas such as eyes, ears, etc. Particles or objects propelled by the stream can cause injury.
- Tool attachments can be come loose or break and fly apart propelling particles at the operator and others in the work area.

HOW TO PREVENT IT

- Always wear **ANSI Z87.1 CAN/CSA Z94.3** approved safety glasses with side shields.
- Never leave operating tool unattended. Disconnect air hose when tool is not in use.
- For additional protection use an approved face shield in addition to safety glasses.
- Make sure that any attachments are securely assembled.



⚠ **WARNING: RISK OF CUT OR BURNS**

WHAT CAN HAPPEN

- Tools which cut, shear, drill, punch, chisel, etc., are capable of causing serious injury.

HOW TO PREVENT IT

- Keep the working part of the tool away from hands and body.



⚠ **WARNING: RISK OF ENTANGLEMENT**

WHAT CAN HAPPEN

- Tools which contain moving elements, or drive other moving tools such as grinding wheels, sockets, sanding discs, etc., can become entangled in hair, clothing, jewelry and other loose objects, resulting in severe injury.

HOW TO PREVENT IT

- Never wear loose fitting clothes, or apparel which contains loose straps or ties, etc., which could become entangled in moving parts of the tool.
- Remove any jewelry, watches, identifications, bracelets, necklaces, etc., which might become caught by the tool.
- Keep hands away from moving parts. Tie up or cover long hair.
- Always wear proper fitting clothing and other safety equipment when using this tool.

⚠ WARNING: AIR SUPPLY AND CONNECTIONS

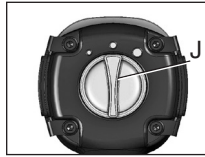
- **Do not** use oxygen, combustible gases, or bottled gases as a power source for this tool as the tool may explode, possibly causing injury.
- **Do not** use supply sources which can potentially exceed 200 PSI (13.8 bar) as tool may burst, possibly causing injury.
- The connector on the tool must not hold pressure when air supply is disconnected. If a wrong fitting is used, the tool can remain charged with air after disconnecting and thus will be able to after the air line is disconnected possibly causing injury.
- Always disconnect air supply:
 - 1) Before making adjustments;
 - 2) When servicing the tool;
 - 3) When tool is not in use;
 - 4) When moving to a different work area, as accidental actuation may occur, possibly causing injury.

**SAVE THESE INSTRUCTIONS
FOR FUTURE USE**

FEATURES

ADJUSTABLE POWER DIAL

The **dial (J)** controls the torque power. Torque increases with larger circle settings.



SQUARE DRIVE

The **1/2" square drive (A)** allows attachment of sockets with a insulation from cold air passing through the handle.



TRIGGER

The **trigger (B)** allows the operator to control the start and stop of the air tool.



FORWARD/REVERSE SWITCH

The **forward/reverse switch (C)** is easily accessible with one hand from the left and/or the right side of the tool for quick directional changeover.

TWIN HAMMER MECHANISM

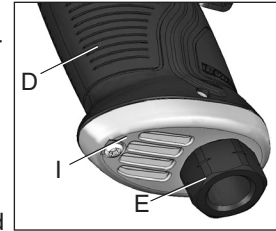
This air tool contains a **twin hammer mechanism** which provides more durability and a longer tool life.

COMPOSITE BODY

The body of the air tool is a **high-impact composite design (G)** for reduced weight and superior power-to-weight ratio. The composite body reduces fatigue and provides insulation from cold air passing through the handle.

HANDLE

This air tool has an **ergonomic grip (D)** made of molded thermoplastic elastomer (TPE) design for improved comfort, slippage reduction, and better tool control.

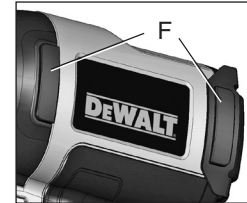


AIR INLET

The tool's **air inlet (E)** located at the bottom of the handle is used for connecting an air supply with a standard 1/4" NPT American thread.

EXHAUST

The **exhaust (I)** is located at the base of the handle and allows the exhaust to be directed away from the operator and working area.



SHOCK RESISTANT HOUSING BUMPERS

The **shock resistant housing bumpers (F)** provide protection against housing cracks from accidental drops of the air tool.

INSTALLATION

Air Supply

The recommended hook-up is shown in **Figure A**. Pneumatic tools operate on a wide range of air pressures. For maximum efficiency and longer tool life, the pressure of the air supplied to these tools **MUST** not exceed the rated PSI at the tool when the tool is running. Using a higher than rated pressure will cause faster wear and drastically shorten the tool's life. A higher air pressure can also cause an unsafe condition and explosion.

The inside diameter of the hose should be increased to compensate for unusually long air hoses (over 25 feet). Minimum hose diameter should be 3/8" I.D. and fittings should have 1/4" NPT thread.

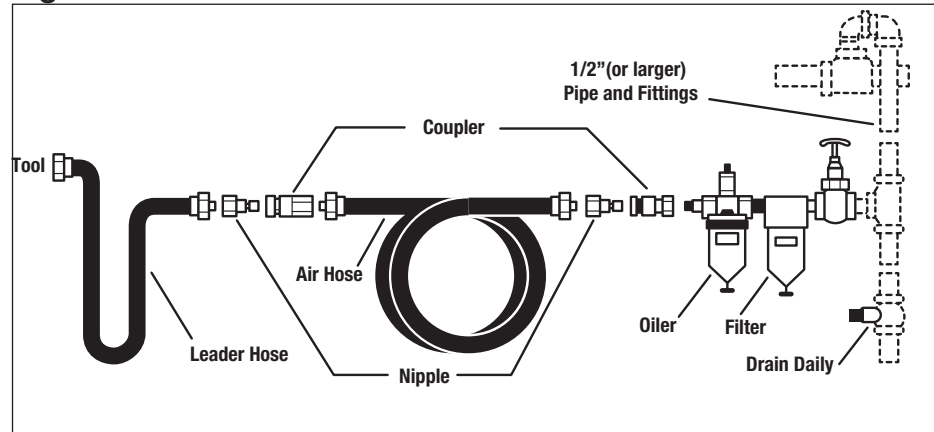
The use of air line lubricators and air line filters is recommended to prevent water in the line that can damage the tool. Drain the air tank daily. Clean the air inlet filter screen on at least a weekly schedule to remove accumulated dirt or other matter that can restrict air flow.

The tool's air inlet used for connecting an air supply has standard 1/4" NPT American thread.

Safety Rules For Pneumatic Tools

- 1) Inspect the air hose for cracks or other problems. Replace the hose if worn.
- 2) Never point an air hose at another person.
- 3) Disconnect the tool when not in use, or before performing service or changing accessories.
- 4) Use proper hoses and fittings. Never use quick change couplings attached to the tool. Instead, add a hose and coupling between the tool and the air supply.

Figure A



PREPARATION FOR USE

Proper Use Of The Tool

Your new 1/2" Drive Impact Wrench is designed for driving, tightening and loosening threaded fasteners, usually nuts and bolts, when fitted with a suitable impact socket. Always use impact-rated extension bars, universal joints and socket adapters between the square output drive of the impact wrench and the female square drive of the socket. Do not use the tool for any other purpose than that specified without consulting the manufacturer or the manufacturer's authorized supplier. To do so may be dangerous.

Never use the impact wrench as a hammer to dislodge or straighten cross threaded fasteners. Never attempt to modify the tool for other uses.

Work Stations

Your impact wrench should only be used as a hand operated tool. It is always recommended that the tool is used when standing with solid footing. 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 footing and be aware that when loosening fasteners the tool can move quite quickly away from the fastener being undone. An allowance must always be made for this rearward movement so as to avoid the possibility of hand/arm/body entrapment.

Putting Into Service

Air Supply

▲ CAUTION: This air tool requires lubrication **BEFORE** initial use, also before and after each additional use.

▲ WARNING: Use a clean lubricated air supply that will give a measured air pressure at the tool of 90 psi/6.2 bar when the tool is running with the trigger fully depressed.

Use recommended hose size. It is recommended that the tool is connected to the air supply as shown in **figure A** on page 11. Do not connect the tool to the air line system without incorporating an

easy to reach and operate air shut off valve. The air supply should be lubricated. It is strongly recommended that an air filter, regulator, **lubricator (FRL)** is used as shown in **figure A** on page 11 as this will supply clean, lubricated air at the correct pressure to the tool. Details of such equipment can be obtained from your supplier. If such equipment is not used then the tool should be lubricated by shutting off the air supply to the tool and then depressurizing the line by pressing the trigger on the tool. Disconnect the air line and pour into the air inlet 1 teaspoon (5cc.) of a suitable pneumatic motor lubricating oil, preferably incorporating a rust inhibitor. Reconnect tool to air supply and run tool slowly for a few seconds to allow air to circulate the oil.

Lubricate tool daily if used frequently, or when it starts to slow or lose power.

Using An Impact Wrench

▲ WARNING:

- 1) Read all instructions before using this tool. All operators must be fully trained in its use and aware of these safety rules.
- 2) Do not exceed the maximum working air pressure of 90 psi/6.2 bar.
- 3) Use personal safety equipment.
- 4) Use only compressed air at the recommended conditions.
- 5) If the tool appears to malfunction, remove from use immediately 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 fitted 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 electricity.
- 9) When using the tool, always adopt a firm footing and/or position and grip the tool firmly to counteract any forces or reaction forces that may be generated while using the tool.

Using an Impact Wrench Continued

- 10) Use only genuine Dewalt spare parts or parts which perform equivalently. Do not make temporary or permanent repairs with unauthorized parts.
- 11) Do not lock, tape, wire, etc., the on/off trigger in the run position. The trigger 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 to release air from the feed hose before fitting, adjusting or removing the working attachment.
- 13) Check hoses and fittings regularly for wear. Replace if necessary. Do not carry the tool by its hose. Ensure the hand is removed from the on/off trigger when carrying the tool with the air supply connected.
- 14) Take care against entanglement of moving tool parts with clothing, ties, hair, cleaning rags, etc. This will cause the body to be drawn towards the tool and can be very dangerous.
- 15) Safe working practices and observe all relevant legal requirements when installing, using or maintaining the tool.
- 16) Only install the tool when an easily accessible and easily operable on/off switch is incorporated in the air supply.
- 17) Take care that the tool exhaust air does not cause problems or blow onto another person.
- 18) Never lay a tool down unless the working attachment has stopped moving.
- 19) Always ensure that the forward/reverse switch is in the desired position before starting the tool.
- 20) Do not use sockets with excessive wear to the input or output drives. Periodically check the square drive on the impact wrench. Make sure the socket, extension bar, or other attachment is securely fitted before operating tool.
- 21) When loosening fasteners first ensure that there is sufficient clearance behind the tool to avoid hand entrapment. The tool will move away from the threaded joint as the nut/bolt is loosened and rides up the thread, moving the tool with it.

PRE-START CHECKLIST

- Drain water from air compressor tank and condensation from air lines. (Please refer to air compressor's operation manual.)
- Lubricate the tool. (Please refer to the "Maintenance" section in the manual.)
- Select the necessary impact sockets. The sockets have to match with the size of the drive on the air impact wrench.
- Connect air impact wrench to air source with the hose of recommended size.

▲ WARNING: Risk of unsafe operation. Firmly grasp air hose with hand when installing or disconnecting to prevent hose whip.

▲ WARNING: Risk of bursting. Too much air pressure causes a hazardous risk of bursting. Check the manufacturer's maximum pressure rating for air tools and accessories. The regulator output pressure must never exceed the maximum pressure rating.

OPERATING PROCEDURES

START-UP (FIG. 1, PG. 2)

- Turn on the air compressor and allow the air tank to be filled.
- Set the air compressor regulator to 90 PSI. This air tool operates at a maximum of 90 PSI air pressure.
- Adjust power dial (if it is available) to desired torque.
- Adjust tool either in forward or reverse position. **See Features on page 10 for diagram.**
- Depress the trigger to start operating the tool.

SHUT-DOWN (FIG. 1, PG. 2)

- Release the trigger in order to stop the tool.
- When changing sockets, always disconnect air supply to avoid injury.
- When job is completed, turn off the air compressor and store the air tool after lubrication.

OPERATING INSTRUCTIONS

- Securely fit the socket or attachment to the impact wrench.
- Ensure that the forward/reverse switch is in the correct position for tightening or loosening the fastener.
- The nut/bolt can then run down the thread using the power drive of the tool. For loosening a joint the tool can be used in the reverse sequence.

MAINTENANCE

Lubrication

Air tools require lubrication throughout the lifetime of the tools. The air motor and bearing uses compressed air to power the tool. The compressed air contains moisture that will rust the air motor and other parts in side of the tools, therefore lubrication is required daily. Failure to lubricate the air tool properly will dramatically shorten the life of the tool and will void the warranty

▲ CAUTION: *This air tool requires lubrication **BEFORE** initial use, also before and after each additional use.*

To Lubricate The Air Tool Manually:

1. Remove any attachment on the drive of air tools, such as: sockets, chisels and etc.
2. Disconnect the tool from the air supply source, place the air inlet face up.
3. Depress the trigger and place about 1 teaspoon (5cc.) of air tool oil into the air inlet. (Depressing the trigger will help circulate oil in the motor.)

NOTE: Use SAE #10 weight oil if air tool oil is not available.

4. Connect the tool to an air source, cover the exhaust end with a towel and run for about 20 to 30 seconds.

▲ WARNING: *Keep out of the reach of children. If taken internally, do not induce vomiting, call a doctor immediately.*

▲ WARNING: *Any excess oil in the motor is immediately expelled from the exhaust port. Always direct exhaust port away from people or objects.*

Storage:

The air tool must be lubricated before storing.
Follow the “Lubrication” instruction with exception of step 4.

SERVICE INFORMATION

Please have the following information available for all service calls:
Model Number _____

Date and Place of Purchase _____

FULL THREE YEARS WARRANTY

DEWALT heavy duty industrial tools are warranted for 3 years from date of purchase. We will repair, without charge, any defects due to faulty materials or workmanship. For warranty repair information, call **1-800-4-DEWALT**. This warranty does not apply to accessories or damage caused where repairs have been made or attempted by others. This warranty gives you specific legal rights and you may have other rights which vary in certain states or provinces.

Latin America: This warranty does not apply to products sold in Latin America. For products sold in Latin America, see country specific warranty information contained either in the packaging, call the local company or see website for warranty information.

FREE WARNING LABEL REPLACEMENT: If your warning labels become illegible or are missing, call **1-800-4-DEWALT** for a free replacement.

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