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

INSTRUCTION MANUAL  
GUIDE D'UTILISATION  
MANUAL DE INSTRUCCIONES

# DEWALT®

D55146  
Oil Free Portable Air Compressor  
Compresseur d'air portatif sans huile  
Compresor de aire sin aceite portátil

DeWALT Industrial Tool Co., 701 East Joppa Road, Baltimore, MD 21286

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The following are trademarks for one or more DeWALT power tools: the yellow and black color scheme; the "D" shaped air intake grill; the array of pyramids on the handgrip; the kit box configuration; and the array of lozenge-shaped humps on the surface of the tool.

## 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.

**NOTICE:** Indicates a practice not related to personal injury which, if not avoided, may result in property damage.

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:** Do not operate this unit until you read this instruction manual for safety, operation and maintenance instructions.

**⚠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.**

**⚠WARNING:** Some dust contains chemicals known to the State of California to cause cancer, birth defects or other reproductive harm such as asbestos and lead in lead based paint.

## SAVE THESE INSTRUCTION



### ⚠DANGER: RISK OF EXPLOSION OR FIRE

#### WHAT CAN HAPPEN

- It is normal for electrical contacts within the motor and pressure switch to spark.
- If electrical sparks from compressor come into contact with flammable vapors, they may ignite, causing fire or explosion.

- Restricting any of the compressor ventilation openings will cause serious overheating and could cause fire.

- Unattended operation of this product could result in personal injury or property damage. To reduce the risk of fire, do not allow the compressor to operate unattended.



### ⚠DANGER: RISK TO BREATHING (ASPHYXIATION)

#### WHAT CAN HAPPEN

- The compressed air directly from your compressor is not safe for breathing. The air stream may contain carbon monoxide, toxic vapors, or solid particles from the air tank. Breathing these contaminants can cause serious injury or death.
- Exposure to chemicals in dust created by power sanding, sawing, grinding, drilling, and other construction activities may be harmful.
- Sprayed materials such as paint, paint solvents, paint remover, insecticides, weed killers, may contain harmful vapors and poisons.

#### HOW TO PREVENT IT

- Always operate the compressor in a well ventilated area free of combustible materials, gasoline, or solvent vapors.
- If spraying flammable materials, locate compressor at least 20' (6.1 m) away from spray area. An additional length of hose may be required.
- Store flammable materials in a secure location away from compressor.
- Never place objects against or on top of compressor pump.
- Operate compressor in an open area at least 12" (30.5 cm) away from any wall or obstruction that would restrict the flow of fresh air to the ventilation openings.
- Operate compressor in a clean, dry well ventilated area. Do not operate unit indoors or in any confined area.
- Always remain in attendance with the product when it is operating.
- Always turn off and unplug unit when not in use.

- Work in an area with good cross ventilation. Read and follow the safety instructions provided on the label or safety data sheets for the materials you are spraying. Always use certified safety equipment: NIOSH/ OSHA respiratory protection or properly fitting face mask designed for use with your specific application.



### ⚠WARNING: RISK OF BURSTING

**Air Tank:** On February 26, 2002, the U.S. Consumer Product Safety Commission published Release # 02-108 concerning air compressor tank safety:

Air compressor receiver tanks do not have an infinite life. Tank life is dependent upon several factors, some of which include operating conditions, ambient conditions, proper installations, field modifications, and the level of maintenance. The exact effect of these factors on air receiver life is difficult to predict.

If proper maintenance procedures are not followed, internal corrosion to the inner wall of the air receiver tank can cause the air tank to unexpectedly rupture allowing pressurized air to suddenly and forcefully escape, posing risk of injury to consumers.

Your compressor air tank must be removed from service by the end of the year shown on your tank warning label.

The following conditions could lead to a weakening of the air tank, and result in a violent air tank explosion:

#### WHAT CAN HAPPEN

- Failure to properly drain condensed water from air tank, causing rust and thinning of the steel air tank.
- Modifications or attempted repairs to the air tank.

#### HOW TO PREVENT IT

- Drain air tank daily or after each use. If air tank develops a leak, replace it immediately with a new air tank or replace the entire compressor.
- Never drill into, weld, or make any modifications to the air tank or its attachments. Never attempt to repair a damaged or leaking air tank. Replace with a new air tank.
- The air tank is designed to withstand specific operating pressures. Never make adjustments or parts substitutions to alter the factory set operating pressures.

- Unauthorized modifications to the safety valve or any other components which control air tank pressure.

## Attachments & accessories:

- Exceeding the pressure rating of air tools, spray guns, air operated accessories, tires, and other inflatables can cause them to explode or fly apart, and could result in serious injury.

- Follow the equipment manufacturers recommendation and never exceed the maximum allowable pressure rating of attachments. Never use compressor to inflate small low pressure objects such as children's toys, footballs, basketballs, etc.

## Tires:

- Over inflation of tires could result in serious injury and property damage.

- Use a tire pressure gauge to check the tires pressure before each use and while inflating tires; see the tire sidewall for the correct tire pressure.



### ⚠WARNING: RISK OF ELECTRICAL SHOCK

#### WHAT CAN HAPPEN

- Your air compressor is powered by electricity. Like any other electrically powered device, if it is not used properly it may cause electric shock.

#### HOW TO PREVENT IT

- Never operate the compressor outdoors when it is raining or in wet conditions.
- Never operate compressor with protective covers removed or damaged.
- Any electrical wiring or repairs required on this product should be performed by a DEWALT factory service center or a DEWALT authorized service center in accordance with national and local electrical codes.
- Make certain that the electrical circuit to which the compressor is connected provides proper electrical grounding, correct voltage and adequate fuse protection.



### ⚠WARNING: RISK FROM FLYING OBJECTS

#### WHAT CAN HAPPEN

- The compressed air stream can cause soft tissue damage to exposed skin and can propel dirt, chips, loose particles, and small objects at high speed, resulting in property damage or personal injury.

#### HOW TO PREVENT IT

- Always wear certified safety equipment: ANSI Z87.1 eye protection (CAN/CSA Z94.3) with side shields when using the compressor.
- Never point any nozzle or sprayer toward any part of the body or at other people or animals.
- Always turn the compressor off and bleed pressure from the air hose and air tank before attempting maintenance, attaching tools or accessories.



### ⚠WARNING: RISK OF HOT SURFACES

#### WHAT CAN HAPPEN

- Touching exposed metal such as the compressor head, engine head, engine exhaust or outlet tubes, can result in serious burns.

#### HOW TO PREVENT IT

- Never touch any exposed metal parts on compressor during or immediately after operation. Compressor will remain hot for several minutes after operation.
- Do not reach around protective shrouds or attempt maintenance until unit has been allowed to cool.



### ⚠WARNING: RISK FROM MOVING PARTS

#### WHAT CAN HAPPEN

- Moving parts such as the pulley, flywheel, and belt can cause serious injury if they come into contact with you or your clothing.

#### HOW TO PREVENT IT

- Never operate the compressor with guards or covers which are damaged or removed.
- Keep your hair, clothing, and gloves away from moving parts. Loose clothes, jewelry, or long hair can be caught in moving parts.
- Air vents may cover moving parts and should be avoided as well.
- Any repairs required on this product should be performed by a DEWALT factory service center or a DEWALT authorized service center.



### ⚠WARNING: RISK OF UNSAFE OPERATION

#### WHAT CAN HAPPEN

- Unsafe operation of your air compressor could lead to serious injury or death to you or others.

#### HOW TO PREVENT IT

- Review and understand all instructions and warnings in this manual.
- Become familiar with the operation and controls of the air compressor.
- Keep operating area clear of all persons, pets, and obstacles.
- Keep children away from the air compressor at all times.
- Do not operate the product when fatigued or under the influence of alcohol or drugs. Stay alert at all times.
- Never defeat the safety features of this product.
- Equip area of operation with a fire extinguisher.
- Do not operate machine with missing, broken, or unauthorized parts.
- Never stand on the compressor.



### ⚠WARNING: RISK OF FALLING

#### WHAT CAN HAPPEN

- A portable compressor can fall from a table, workbench, or roof causing damage to the compressor and could result in serious injury or death to the operator.

#### HOW TO PREVENT IT

- Always operate compressor in a stable secure position to prevent accidental movement of the unit. Never operate compressor on a roof or other elevated position. Use additional air hose to reach high locations.



### ⚠WARNING: RISK OF INJURY FROM LIFTING

#### WHAT CAN HAPPEN

- Serious injury can result from attempting to lift too heavy an object.

#### HOW TO PREVENT IT

- The compressor is too heavy to be lifted by one person. Obtain assistance from others before lifting.



### ⚠WARNING: RISK FROM NOISE

#### WHAT CAN HAPPEN

- Under some conditions and duration of use, noise from this product may contribute to hearing loss.

#### HOW TO PREVENT IT

- Always wear proper hearing protection during use.

## SAVE THESE INSTRUCTIONS FOR FUTURE USE

## Components (Fig. 1)

- |                             |                        |
|-----------------------------|------------------------|
| A. Sliding Handles          | H. Drain Valve         |
| B. Handle Grip              | I. Cord Wrap           |
| C. Storage Support          | J. Air Filter          |
| D. Regulated Pressure Gauge | K. Tank Pressure Gauge |
| E. Quick Connects           | L. Mini-Switch         |
| F. Regulator                | G. Safety Valve        |

## FEATURES (FIG. 1)

### MINI-SWITCH

Place this switch (L) in the ON ( 1 ) position to start the unit and OFF ( 0 ) to remove power at the end of each use.

### PRESSURE SWITCH

The pressure switch automatically starts the motor when the air tank pressure drops below the factory set **cut-in** pressure. It stops the motor when the air tank pressure reaches the factory set **cut-out** pressure.

### SAFETY VALVE

If the pressure switch does not shut off the air compressor at its cut-out pressure setting, the safety valve (G) will protect against high pressure by popping out at its factory set pressure (slightly higher than the pressure switch cut-out setting).

### CHECK VALVE

When the air compressor is operating, the check valve is open, allowing compressed air to enter the air tank. When the air compressor reaches cut-out pressure, the check valve closes, allowing air pressure to remain inside the air tank.

### TANK PRESSURE GAUGE

The tank pressure gauge (K) indicates the reserve air pressure in the tank.

### REGULATED PRESSURE GAUGE

The regulated pressure gauge (D) indicates the air pressure available at the outlet side of the regulator. This pressure is controlled by the regulator.

### REGULATOR

The regulator (F) controls the air pressure shown on the regulated pressure gauge. Pull the knob out and turn clockwise to increase pressure and counterclockwise to decrease pressure. When the desired pressure is reached push knob in to lock in place. The regulated pressure range is 7–150 psi.

**⚠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 outlet pressure must never exceed the maximum pressure rating.

### UNIVERSAL QUICK CONNECT BODIES

The universal quick connect body (E) comes in three most popular styles of quick connect plugs: Industrial, automotive, and ARO. One hand push-to-connect operation makes connections simple and easy. The two quick connect bodies allow the use of two tools at the same time.

### DRAIN VALVE

The drain valve (H) is located at the base of the air tank and is used to drain condensation at the end of each use. See **Draining Air Tank** under *Maintenance*.

### COOLING SYSTEM

This compressor contains an advanced design cooling system. It is normal for this fan to blow air through the vent holes in large amounts. The cooling system is working when air is expelled.

### AIR COMPRESSOR PUMP

The pump compresses air into the air tank. Working air is not available until the compressor has raised the air tank pressure above that required at the air outlet.

### AIR INTAKE FILTER

The filter (J) is designed to clean air entering the pump. To ensure the pump continually receives











