If you have questions or comments, contact us.
Pour toute question ou tout commentaire, nous contacter.
Si tiene dudas o comentarios, contáctenos.

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®

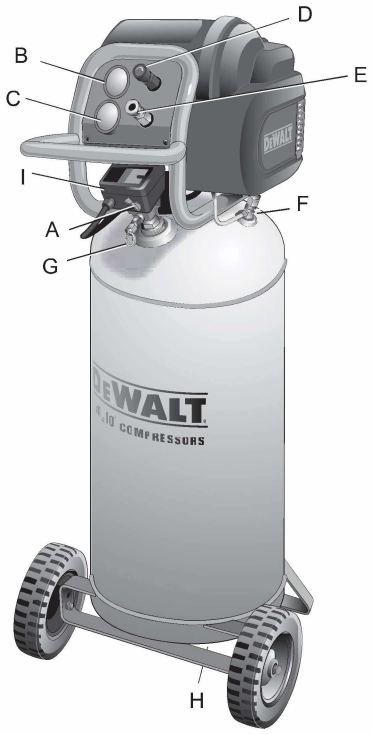
D55168
Oil Free Portable Air Compressor
Compresseur d'air portatif sans huile
Compresor de aire sin aceite portátil

English

D55168 Air Compressor

A. On/Off Switch
B. Air Tank Pressure Gauge
C. Regulated Pressure Gauge
D. Pressure Regulator
E. Quick Connect
F. Check Valve
G. Safety Valve
H. Air Tank Drain Valve
I. Pressure Switch

FIG. 1



Pump/Motor Specifications

Voltage: Single Phase 120V
Minimum branch circuit requirement: 15 A
Fuse Type: Time delay

Specifications

MODEL	D55168
WEIGHT	88 lbs. (39.92 kg)
HEIGHT	41.75" (1060.5mm)
WIDTH	19.0" (482.6 mm)
LENGTH	21.25 (539.8 mm)
AIR TANK CAPACITY (GALLONS)	15 Gallon (56.8 liters)
APPROX CUT-IN PRESSURE	160 PSI (1103.2 kPa)
APPROX. CUT-OUT PRESSURE	200 PSI (1379.0 kPa)
SCFM @ 90 PSI (620.5 kPa)	5.4

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****.*

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 and understand this instruction manual for safety, operation and maintenance 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*

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 of personal injury.

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

SAVE THESE INSTRUCTION

⚠***DANGER: RISK OF EXPLOSION OR FIRE***

WHAT CAN HAPPEN	HOW TO PREVENT IT
• It is normal for electrical contacts within the motor and pressure switch to spark.	• Always operate the compressor in a well ventilated area free of combustible materials, gasoline, or solvent vapors.

• If electrical sparks from compressor come into contact with flammable vapors, they may ignite, causing fire or explosion.	• If spraying flammable materials, locate compressor at least 20 feet (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.
• Restricting any of the compressor ventilation openings will cause serious overheating and could cause fire.	• Never place objects against or on top of compressor. • Operate compressor in an open area at least 12" (30 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.
• 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.	• Always remain in attendance with the product when it is operating. • Always turn off and unplug unit when not in use.

⚠DANGER: RISK TO BREATHING (ASPHYXIATION)

WHAT CAN HAPPEN	HOW TO PREVENT IT
• 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 contaminant's can cause serious injury or death.	• Air obtained directly from the compressor should never be used to supply air for human consumption. In order to use air produced by this compressor for breathing, suitable filters and in-line safety equipment must be properly installed. In-line filters and safety equipment used in conjunction with the compressor must be capable of treating air to all applicable local and federal codes prior to human consumption.
• Sprayed materials such as paint, paint solvents, paint remover, insecticides, weed killers, may contain harmful vapors and poisons.	• 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: OSHA/MSHA/NIOSH respiratory protection designed for use with your specific application.

⚠WARNING: RISK OF BURSTING

Air Tank: The air tank on your Air Compressor is designed and may be UM coded (for units with air tanks greater than 6 inch diameter) according to ASME Section VIII, Div. 1 rules. All pressure vessels should be inspected once every two years. To find your state pressure vessels inspector, look under the Division of Labor and Industries in the government section of a phone book or call 1-800-4-DEWALT for assistance.

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

WHAT CAN HAPPEN	HOW TO PREVENT IT
• Failure to properly drain condensed water from air tank, causing rust and thinning of the steel air tank.	• 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.
• Modifications or attempted repairs to the air tank.	• 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.
• Unauthorized modifications to the safety valve or any other components which control air tank pressure.	• The air tank is designed to withstand specific operating pressures. Never make adjustments or parts substitutions to alter the factory set operating pressures.

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.

⚠WARNING: RISK OF ELECTRICAL SHOCK

WHAT CAN HAPPEN	HOW TO PREVENT IT
• Your air compressor is powered by electricity. Like any other electrically powered device, If it is not used properly it may cause electric shock.	• Never operate the compressor outdoors when it is raining or in wet conditions. • Never operate compressor with protective covers removed or damaged.
• Repairs attempted by unqualified personnel can result in serious injury or death by electrocution.	• 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.

- **Electrical Grounding:** Failure to provide adequate grounding to this product could result in serious injury or death from electrocution. See **Grounding Instructions** under *Installation*.
- 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	HOW TO PREVENT IT
• 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.	• 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	HOW TO PREVENT IT
• Touching exposed metal such as the compressor head, engine head, engine exhaust or outlet tubes, can result in serious burns.	• 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	HOW TO PREVENT IT
• Moving parts such as the pulley, flywheel, and belt can cause serious injury if they come into contact with you or your clothing.	• 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.

- Attempting to operate compressor with damaged or missing parts or attempting to repair compressor with protective shrouds removed can expose you to moving parts and can result in serious injury.
- 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	HOW TO PREVENT IT
• Unsafe operation of your air compressor could lead to serious injury or death to you or others.	• 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.

⚠WARNING: RISK OF FALLING

WHAT CAN HAPPEN	HOW TO PREVENT IT
• 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.	• 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.

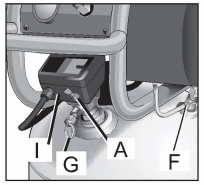
⚠CAUTION: RISK FROM NOISE

WHAT CAN HAPPEN	HOW TO PREVENT IT
• Under some conditions and duration of use, noise from this product may contribute to hearing loss.	• Always wear certified safety equipment: ANSI S12.6 (S3.19) hearing protection.

SAVE THESE INSTRUCTIONS FOR FUTURE USE

FEATURES

ON/OFF SWITCH



Place this switch (A) in the ON position to provide automatic power to the pressure switch and OFF to remove power at the end of each use.

PRESSURE SWITCH

The pressure switch (I) 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.

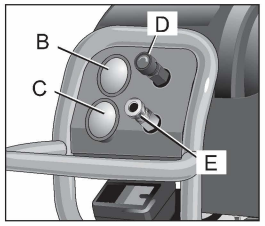
SAFETY VALVE

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 (F) 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 (B) indicates the reserve air pressure in the tank.

OUTLET PRESSURE GAUGE

The outlet pressure gauge (C) indicates the air pressure available at the outlet side of the regulator. This pressure is controlled by the regulator and is always less than or equal to the tank pressure.

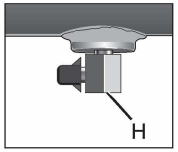
REGULATOR

The regulator (D) controls the air pressure shown on the outlet 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.

UNIVERSAL QUICK CONNECT BODIES

The universal Quick Connect body (E) accepts the three most popular styles of Quick Connect plugs: Industrial, automotive, and ARO. One hand push-to-connect operation makes connections simple and easy.

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.

PRESSURE RELEASE VALVE

The pressure release valve located on the side of the pressure switch, is designed to automatically release compressed air from the compressor head and the outlet tube when the air compressor reaches "cut-out" pressure or is shut off. The pressure release valve allows the motor to restart freely. When the motor stops running, air will be heard escaping from this valve for a few seconds. No air should be heard leaking when the motor is running or after the unit reaches "cut-out" pressure.

MOTOR OVERLOAD PROTECTOR

The motor has a manual thermal overload protector. If the motor overheats for any reason, the overload protector will shut off the motor. The motor must be allowed to cool down before restarting. To restart:

1. Set the On/Auto/Off lever to OFF and unplug unit.
2. Allow the motor to cool.
3. Plug the power cord into the correct branch circuit receptacle.
4. Set the On/Auto/Off lever to ON/AUTO position.

INSTALLATION

Assembly

INSTALLING HOSES

⚠***WARNING:*** *Risk of unsafe operation. Firmly grasp hose in hand when installing or disconnecting to prevent hose whip.*

1. Ensure regulated pressure gauge reads 0 PSI (0 kPa).
2. Grasp the hose at the Quick Connect plug and push the plug into the Quick Connect body (E). Coupler will snap into place.
3. Grasp the hose and pull to ensure coupler is seated.

DISCONNECTING HOSES

⚠***WARNING:*** *Risk of unsafe operation. Firmly grasp hose in hand when installing or disconnecting to prevent hose whip.*

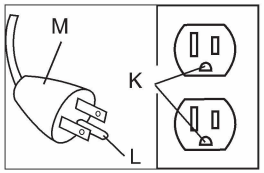
1. Ensure regulated pressure gauge reads 0 PSI (0 kPa).
2. Pull coupler on Quick Connect body back to release Quick Connect plug on hose.

Grounding Instructions

⚠***WARNING:*** *Risk of Electrical Shock. In the event of a short circuit, grounding reduces the risk of shock by providing an escape wire for the electric current. This air compressor must be properly grounded.*

The portable air compressor is equipped with a cord having a grounding wire with an appropriate grounding plug.

1. The cord set and plug (M) with this unit contains a grounding pin (L). This plug **MUST** be used with a grounded outlet (K).



IMPORTANT: The outlet being used must be installed and grounded in accordance with all local codes and ordinances.

2. Ensure the outlet being used has the same configuration as the grounded plug. DO NOT USE AN ADAPTER.
3. Inspect the plug and cord before each use. Do not use if there are signs of damage.
4. If these grounding instructions are not completely understood, or if in doubt as to whether the compressor is properly grounded, have the installation checked by a qualified electrician.

⚠***DANGER:*** *Risk of Electrical Shock. IMPROPER GROUNDING CAN RESULT IN ELECTRICAL SHOCK.*

Do not modify the plug provided. If it does not fit the available outlet, a correct outlet should be installed by a qualified electrician.

Repairs to the cord set or plug MUST be made by a qualified electrician.

Extension Cords

If an extension cord must be used, be sure it is:

- a 3-wire extension cord that has a 3-blade grounding plug, and a 3-slot receptacle that will accept the plug on the product

- in good condition
- no longer than 50 feet
- 12 gauge (AWG) or larger. (Wire size increases as gauge number decreases. 10 AWG and 8 AWG may also be used. DO NOT USE 14 OR 16 AWG.)

CAUTION: *The use of an undersized extension cord will cause voltage to drop resulting in power loss to the motor and overheating. Instead of using an extension cord, increase the working reach of the air hose by attaching another length of hose to its end. Attach additional lengths of hose as needed.*

Voltage and Circuit Protection

Refer to the ***Voltage and Minimum Branch Circuit Requirements*** under *Pump/Motor Specifications.*

⚠***CAUTION:*** *Certain air compressors can be operated on a 15 amp circuit if the following conditions are met.*

- Voltage supply to circuit must comply with the National Electrical Code.
- Circuit is not used to supply any other electrical needs.
- Extension cords comply with specifications.
- Circuit is equipped with a 15 amp circuit breaker or 15 amp time delay fuse. **NOTE:** If compressor is connected to a circuit protected by fuses, use only time delay fuses. Time delay fuses should be marked “D” in Canada and “T” in the US.

If any of the above conditions cannot be met, or if operation of the compressor repeatedly causes interruption of the power, it may be necessary to operate it from a 20 amp circuit. It is not necessary to change the cord set.

Compatibility

NOTE: Always use an air line filter to remove moisture when spraying paint.

Location

Place the air compressor in a clean, dry and well ventilated area at least 12" (30 mm) away from the wall or other obstructions that will interfere with the flow of air. Keep the compressor away from areas that have dirt and/or volatile fumes in the atmosphere. These impurities may clog the intake filter and valves, causing inefficient operation.

⚠***WARNING:*** The air compressor pump and shroud are designed to allow for proper cooling. The ventilation openings on the compressor are necessary to maintain proper operating temperature. Do not place rags or other containers on or near these openings.

Place the air compressor on a flat surface resting on the rubber feet.

ELECTRICAL

Refer to all safety instructions before using unit. Observe extension cord safety instructions if necessary. Always move the On/Off switch (A) to the OFF position before removing the plug from the outlet.

TRANSPORTING

When transporting the compressor in a vehicle, trailer, etc., make sure the tank is drained and the unit is secured with straps to prevent tipping. Use care when driving to prevent tipping the unit over in the vehicle. Damage can occur to the compressor or surrounding items if the compressor is tipped.

LIFTING

Always use two people when lifting and lift from the recommended lift points (O). DO NOT lift by wheels or shroud.

Moving

⚠***CAUTION:*** The wheels and handle do not provide adequate clearance, stability, or support for pulling the unit up and down stairs or steps. The unit must be lifted or pushed up a ramp.

1. Grasp handle of compressor and tilt compressor back to rest on wheels.

⚠***WARNING:*** Risk of Unsafe Operation. Ensure proper footing and use caution when rolling compressor so that unit does not tip or cause loss of balance.

2. When location is reached slowly lower compressor to ground. **Always store compressor in** a vertical position resting on the rubber bumpers and wheels**.**

PREPARATION FOR USE

Pre-Start Checklist (Fig. 1)

1. Ensure the On/Off switch (A) is in the OFF position.
2. Plug the power cord into the correct branch circuit receptacle. See **Voltage and Circuit Protection** under *Installation*.
3. Ensure air tank is drained, see **Draining Air Tank** under *Maintenance.*
4. Ensure the drain valve (H) is closed.
5. Ensure safety valve (G) is functioning properly, see **Checking Safety Valve** under *Maintenance.*
6. Pull the knob (D) 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.
7. Attach hose and accessories.

⚠***CAUTION:*** *Risk of unsafe operation. Compressed air from the unit may contain water condensation and oil mist. Do not spray unfiltered air at an item that could be damaged by moisture. Some air tools and accessories may require filtered air. Read the instructions for the air tools and accessories.*

⚠***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.*

Initial Set-up (Fig. 1)

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

BREAK-IN PROCEDURE

⚠***WARNING:*** *Risk of property damage. Serious damage may result if the following break-in instructions are not closely followed.*

This procedure is required **before** the air compressor is put into service for the first time and when the check valve or a compressor pump/motor has been replaced.

1. Ensure the On/Off switch (A) is in the OFF position.

NOTE: If hose is not connected to Quick Connect body, pull coupler back until it clicks to prevent air from escaping through the quick connect.

2. Plug the power cord into the correct branch circuit receptacle. See **Voltage and Circuit Protection** under *Installation*.

3. Open the drain valve (turn lever counter-clockwise) fully to permit air to escape and prevent air pressure build up in the air tank during the break-in period.
4. Move the On/Off switch to the ON position. The compressor will start.
5. Run the compressor for 15 minutes.
6. After 15 minutes, close the drain valve by turning lever clockwise. The tank will fill to **cut-out** pressure and the motor will stop.
7. Compressed air will be available until it is used or bled off.

OPERATING PROCEDURES

Start-up (Fig. 1)

1. Follow **Pre-Start Checklist** under *Preparation for Use*.
2. Move the On/Off switch to the ON position and allow tank pressure to build. Motor will stop when tank pressure reaches **cut-out** pressure.

⚠***CAUTION:*** *Risk of unsafe operation. Compressed air from the unit may contain water condensation and oil mist. Do not spray unfiltered air at an item that could be damaged by moisture. Some air operated tools or devices may require filtered air. Read the instructions for the air tool or device.*

3. Adjust regulator (D) to desired setting. See **Regulator** under *Features.*

Shut-down (Fig. 1)

1. Move On/Off switch (A) to the OFF position. **NOTE:** If finished using compressor, follow Steps 2 - 6.

NOTE: When the unit has been turned off, it is normal to hear a short hiss of air being released.

2. Turn regulator knob (D) counterclockwise until fully closed. Ensure regulated pressure gauge reads 0 PSI (0 kPa).
3. Remove hose and accessory.

⚠***WARNING:*** *Risk of unsafe operation. Firmly grasp air hose in hand when installing or disconnecting to prevent hose whip.*

4. Drain the air tank, see **Draining Air Tank** under *Maintenance*. Ensure air tank pressure gauge reads 0 PSI (0 kPa).

⚠***WARNING:*** *Risk of bursting. Drain air tank daily. Water will condense in air tank. If not drained, water will corrode and weaken the air tank causing a risk of air tank rupture.*

5. Allow the compressor to cool down.
6. Wipe air compressor clean and store in a safe, non-freezing area.

MAINTENANCE

The following procedures must be followed when maintenance or service is performed on the air compressor.

1. Ensure On/Off switch is in the OFF position.
2. Remove air compressor plug from outlet.
3. Drain air tank.
4. Allow air compressor to cool down before starting service.

NOTE: All compressed air systems contain maintenance parts (e.g., oil, filters, separators) that are periodically replaced. These used parts may contain substances that are regulated and must be disposed of in accordance with local, state, and federal laws and regulations.

NOTE: Take note of the positions and locations of parts during disassembly to make reassembly easier.

NOTE: Any service operations not included in this section should be performed by a DEWALT factory service center or a DEWALT authorized service center.

Maintenance Chart

	Before each use	Daily or after each use	Every 100 hours	Yearly
Check Safety Valve	●			
Drain Tank		●		
Air Filter			●[1]	
Air compressor pump intake and exhaust valves				●
1- more frequent in dusty or humid conditions				

Checking Safety Valve

⚠***WARNING:*** *Risk of bursting. If the safety valve does not work properly, over-pressurization may occur, causing air tank rupture or an explosion.*

Before starting compressor, pull the ring on the safety valve to make sure that the safety valve operates freely. **NOTE:** Ring may be difficult to pull when air tank pressure is at 0 PSI (0 kPa). If the valve is stuck or does not operate smoothly, it must be replaced with the same type of valve.

Draining Air Tank (Fig. 1)

⚠***WARNING:*** *Risk of unsafe operation. Air tanks contain high pressure air. Keep face and other body parts away from outlet of drain. Use safety glasses when draining as debris can be kicked up into face.* ⚠***WARNING:*** *Risk from noise. Use ANSI S12.6 (S3.19) ear protection as air flow noise is loud when draining.*

NOTE: All compressed air systems generate condensate that accumulates in any drain point (e.g., tanks, filter, aftercoolers, dryers). This condensate contains lubricating oil and/or substances which may be regulated and must be disposed of in accordance with local, state, and federal laws and regulations.

1. Ensure On/Off switch (A) is in the OFF position.
2. Move compressor into an inclined position so drain valve (H) is at the lowest point (this will assist in removing moisture, dirt, etc. from air tanks)

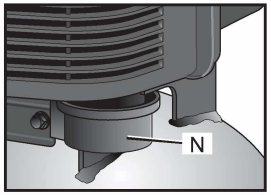
CAUTION: *Risk of Property Damage. Drain water from air tank may contain oil and rust which can cause stains.*

3. Place a suitable container under the drain valve to catch discharge.
4. Grasp black lever on drain valve.
5. Slowly rotate lever to gradually bleed air from air tank.
6. When air tank pressure gauge reads 10 PSI (275.1 kPa), rotate valve to the fully open position.
7. Close drain valve when finished.

Checking Air Filter Element (Fig. 1)

⚠***WARNING****: Hot surfaces. Risk of burn. Outlet tube, pump head, and surrounding parts are very hot, do not touch (see the Hot Surfaces identified in Fig. 2). Allow compressor to cool prior to servicing.*

1. Ensure ON/OFF switch (A) is in the OFF Position.
2. Allow unit to cool.
3. Remove filter cover (N) from base.
4. Remove element from filter base. ..
5. Place new element back in filter base. Purchase replacement parts from your local dealer or authorized service center. Always use identical replacement parts.



6. Snap filter cover to filter base.

⚠***CAUTION:*** *Risk of unsafe operation. Do not operate without air inlet filter*

AIR COMPRESSOR PUMP INTAKE AND EXHAUST VALVES

Once a year have a Trained Service Technician check the air compressor pump intake and exhaust valves.

ACCESSORIES

Recommended accessories for use with your tool are available for purchase from your local dealer or authorized service center. If you need assistance in locating any accessory for your tool, please contact DEWALT Industrial Tool Co., 701 East Joppa Road, Baltimore, MD 21286, call 1-800-4-DEWALT (1-800-433-9258) or visit our website www.dewalt.com.

⚠***CAUTION:*** *The use of any other accessory not recommended for use with this tool could be hazardous. Use only accessories rated equal to or higher than the rating of the air compressor.*

SERVICE INFORMATION

Please have the following information available for all service calls:
Model Number _____ Serial Number _____
Date and Place of Purchase _____

Repairs

To assure product SAFETY and RELIABILITY, repairs, maintenance and adjustment should be performed by a DEWALT factory service center, a DEWALT authorized service center or other qualified service personnel. Always use identical replacement parts.

Full One Year Warranty

DEWALT heavy duty industrial tools are warranted for one year 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.

GLOSSARY

CFM: Cubic feet per minute.

SCFM: Standard cubic feet per minute; a unit of measure of air delivery.

PSI: Pounds per square inch; a unit of measure of pressure.

kPa (kilopascal): Metric pressure measurement. 1 kilopascal equal 1000 pascals.

Code Certification: Products that bear one or more of the following marks: UL, CUL, ETL, CETL, have been evaluated by OSHA certified independent safety laboratories and meet the applicable Underwriters Laboratories Standards for Safety.

Cut-In Pressure: While the motor is off, air tank pressure drops when accessory is used. When the tank pressure drops to a certain low level the motor will restart automatically. The low pressure at which the motor automatically restarts is called **cut-in** pressure.

Cut-Out Pressure: When an air compressor is turned on and begins to run, air pressure in the air tank begins to build. It builds to a certain high pressure before the motor automatically shuts off, protecting your air tank from pressure higher than its capacity. The high pressure at which the motor shuts off is called **cut-out** pressure.

Branch Circuit: The circuit carrying electricity from electrical panel to outlet.

Duty Cycle: This air compressor pump is capable of running continuously. However, to prolong the life of your air compressor, it is recommended that a 50%-75% average duty cycle be maintained; that is, the air compressor pump should not run more than 30-45 minutes in any given hour.

Troubleshooting Guide

This section provides a list of the more frequently encountered malfunctions, their causes and corrective actions. The operator or maintenance personnel can perform some corrective actions, and others may require the assistance of a qualified DEWALT technician or your dealer.

Problem	Code
Excessive air tank pressure-safety valve pops off	1,2
Air leaks	3
Air leaks in air tank or at air tank welds	4
Air leaks between head and valve plate	5
Air leaks from safety valve	6
Knocking Noise	6
Pressure reading on the regulated pressure gauge drops when an accessory is used	7
Compressor is not supplying enough air to operate accessories	8,9,10,11,12,23
Regulator knob has continuous air leak	13
Regulator will not shut off air outlet	13
Motor will not run	6,14,15,16,17,18,19,20,21
Squealing Sound	22

Troubleshooting Codes

CODE	POSSIBLE CAUSE	POSSIBLE SOLUTION
1	Pressure switch does not shut off motor when compressor reaches cut-out pressure	Set the On/Off switch to OFF, if the unit does not shut off contact a DEWALT factory service center or a DEWALT authorized service center.
2	Pressure switch cut-out too high	Contact a DEWALT factory service center or a DEWALT authorized service center.
3	Tube fittings are not tight enough	Tighten fittings where air can be heard escaping. Check fittings with soapy water solution. **Do Not Overtighten.**

CODE	POSSIBLE CAUSE	POSSIBLE SOLUTION
4	Defective air tank	Air tank must be replaced. Do not repair the leak. ⚠***WARNING:*** *Risk of bursting. Do not drill into, weld or otherwise modify air tank or it will weaken. The air tank can rupture or explode.*
5	Leaking seals	Contact a DEWALT factory service center or a DEWALT authorized service center.
6	Defective safety valve	Operate safety valve manually by pulling on ring. If valve still leaks, it must be replaced.
7	Regulator is not adjusted correctly for accessory being used	It is normal for some pressure drop to occur when an accessory is used, adjust the regulator as instructed in **Regulator** under *Features* if pressure drop is excessive. **NOTE:** Adjust the regulated pressure under flow conditions while accessory is being used.
8	Prolonged excessive use of air	Decrease amount of air usage.
9	Compressor is not large enough for accessory	Check the accessory air requirement. If it is higher than the CFM or pressure supplied by your air compressor, a larger compressor is needed to operate accessory.
10	Hole in air hose	Replace air hose.
11	Check valve restricted	Remove, clean or replace.
12	Air leaks	Tighten fittings.
13	Regulator is damaged	Replace.
14	Motor overload protection switch has tripped	Refer to **Motor Overload Protection** under *Features*.
15	Tank pressure exceeds pressure switch cut-in pressure	Motor will start automatically when tank pressure drops below cut-in pressure of pressure switch.

CODE	POSSIBLE CAUSE	POSSIBLE SOLUTION
16	Extension cord is wrong length or gauge	Check for proper gauge wire and cord length under *Extension Cords*.
17	Loose electrical connections	Check wiring connection inside pressure switch and terminal box area.
18	Possible defective motor	Contact a DEWALT factory service center or a DEWALT authorized service center.
19	Paint spray on internal motor parts	Contact a DEWALT factory service center or a DEWALT authorized service center. Do not operate the compressor in the paint spray area. See flammable vapor warning.
20	Pressure release valve on pressure switch has not unloaded head pressure	Bleed the line by pushing the lever on the pressure switch to the "O" position; if the valve does not open, replace switch.
21	Fuse blown, circuit breaker tripped	1. Check fuse box for blown fuse and replace as necessary. Reset circuit breaker. Do not use a fuse or circuit breaker with higher rating than that specified for our particular branch circuit. 2. Check for proper fuse. You should use a time delay fuse. 3. Check for low voltage conditions and/or proper extension cord. 4. Disconnect the other electrical appliances from circuit or operate the compressor on its own branch circuit.
22	Worn Belt	Contact a DEWALT factory service center or a DEWALT authorized service center.
23	Restricted air intake filter	Clean or replace air intake filter. Do not operate the air compressor with the filter removed. Refer to the **Air Filter** paragraph in the **Maintenance** section.