



OWNERS MANUAL FOR
Oil Lubricated Air Compressor

MODEL No
MAC5200

SPECIFICATION CHART

Model #	MAC5200
Horsepower	3
SCFM @ 40 PSIG	6.9
SCFM @ 90 PSIG	6.5
Cut-In Pressure	110 PSI
Cut-Out Pressure	140 PSI
Bore	47 mm
Stroke	44 mm
Voltage -Single Phase	120
Motor RPM	3420
Amperage @ max pressure	13.8
Tank Size	5.2 Gallon
CSA/US Listed	Yes

Minimum Circuit Requirement: 15 AMPS

*A circuit breaker is preferred. Use only a fuse or circuit breaker that is the same rating as the branch circuit the air compressor is operated on. If the air compressor is connected to a circuit protected by fuses, use time delay fuses.

IMPORTANT — Read the Safety Guidelines and ALL instructions carefully before operating.

www.makitatools.com

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IMPORTANT SAFETY INSTRUCTIONS



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.

HAZARD	WHAT CAN HAPPEN	HOW TO PREVENT IT
<p> WARNING</p> <p>Risk of Unsafe Operation</p>	<p>Unsafe operation of your air compressor could lead to serious injury to you or others.</p>	<ul style="list-style-type: none">• 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.

HAZARD	WHAT CAN HAPPEN	HOW TO PREVENT IT
<p>⚠ WARNING</p> <p>Risk of Air Tank Bursting</p> 	<p>The following conditions could lead to a weakening of the tank, and RESULT IN A VIOLENT TANK EXPLOSION RESULTING IN SERIOUS INJURY TO YOU OR OTHERS:</p> <ul style="list-style-type: none"> • Failure to properly drain condensed water from the tank, causing rust and thinning of the tank wall. • Modifications or attempted repairs to the tank. • Unauthorized modifications to the pressure switch, safety valve, or any other components, which control tank pressure. 	<ul style="list-style-type: none"> • Follow the equipment manufacturers recommendation and never exceed the maximum allowable pressure rating of attachments. Never use the compressor to inflate small low-pressure objects such as children's toys, footballs, basketballs, etc.
<p>⚠ WARNING</p> <p>Risk of Attachments and Accessories Bursting</p> 	<p>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 to you and others.</p>	

HAZARD	WHAT CAN HAPPEN	HOW TO PREVENT IT
<p>⚠ WARNING</p> <p>Risk of Electric Shock</p> 	<ul style="list-style-type: none"> • Your air compressor is powered by electricity. Like any other electrically powered device, if it is not used properly, it may cause electrical shock. • Electrical grounding: failure to provide adequate grounding to this product could increase the risk of electric shock. 	<ul style="list-style-type: none"> • Any electrical wiring or repairs required to this product should be performed by qualified service personnel or a licensed electrician, 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. • Never operate the compressor outdoors when it is raining, or in a wet environment.
<p>⚠ WARNING</p> <p>Risk of Explosion or Fire</p> 	<p>It is normal for electrical contact within the motor and pressure switch to spark, whenever the compressor starts or stops. Never operate the compressor in an atmosphere where flammable vapors are present. Doing so can result in serious injury to you or others.</p>	<ul style="list-style-type: none"> • Always operate the compressor in a well-ventilated area, free of gasoline or solvent vapors. • If spraying flammable materials, locate compressor at least 20 feet away from spray area. • Store flammable materials in a secure location away from compressor.
<p>⚠ WARNING</p> <p>Risk to Breathing</p> 	<ul style="list-style-type: none"> • The compressed air from your compressor is not safe for breathing. The air stream may contain carbon monoxide or other vapors, or particles from the tank or other components. • Sprayed materials such as paint, paint 	<ul style="list-style-type: none"> • Never inhale air from the compressor, either directly or from a breathing device connected to the compressor. Work in an area equipped with good cross ventilation. • Read and follow the safety instructions provided on the label or safety data sheet for the material you are spraying.

HAZARD	WHAT CAN HAPPEN	HOW TO PREVENT IT
<p>⚠ WARNING</p> <p>Risk to Breathing (continued)</p>	<p>solvents, paint remover, insecticides, weed killers, etc., contain harmful vapors and poisons.</p> <ul style="list-style-type: none"> Breathing compressor or sprayed materials vapor can result in serious injury. 	<p>Use an approved respirator designed for use with your specific application.</p>
<p>⚠ WARNING</p> <p>Risk from Compressed Air</p> 	<p>The compressed air stream can cause soft tissue damage, and can propel dirt, chips, loose particles and small objects at high speed, resulting in property damage or personal injury.</p>	<ul style="list-style-type: none"> Always wear approved safety glasses 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 line before attempting maintenance, attaching tools or accessories.
<p>⚠ WARNING</p> <p>Risk from Moving Parts</p> 	<p>The compressor cycles automatically when the pressure switch is in the on/auto position. If you attempt repair or maintenance while the compressor is operating or plugged in, you can expose yourself to moving parts. These moving parts can cause serious injury.</p>	<ul style="list-style-type: none"> Always unplug the compressor and release air pressure from the tank and any attachments before attempting any maintenance or repair. Never operate the compressor with guards or covers which are damaged or removed.
<p>⚠ WARNING</p> <p>Risk of Burn</p> 	<p>Contact with hot parts such as the compressor head or outlet tubes could result in a serious skin burn.</p>	<ul style="list-style-type: none"> Never touch hot components during or immediately after operation of the compressor. Do not reach around protective shrouds or attempt maintenance until unit has been allowed to cool.

GLOSSARY

CFM: Cubic feet per minute.

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

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

CUT-IN PRESSURE: While the motor is off, air tank pressure drops as you continue to use your accessory or air tool. When the tank pressure drops to a certain level the motor will restart automatically re-started is called "cut-in pressure".

CUT-OUT PRESSURE: When you turn on your air compressor, it begins to run, air pressure in the air tank begins to build. It builds to a certain pressure before the motor automatically shuts off - protecting your air tank from pressure higher than its design rating. The pressure at which the motor shuts off is called "cut-out pressure".

DUTY CYCLE

All Makita manufactured air compressors are recommended to be operated on not more than a 50% duty cycle. This means an air compressor that pumps air more than 50% of one hour is considered misuse because the air compressor is undersized for the required air demand.

GENERAL INFORMATION

This air compressor requires oil. Now you can enjoy all the benefits of having an oil lubricated professional air compressor. When oil is changed regularly, it will give you long, trouble-free life.

Your air compressor can be used for operating paint spray guns, air tools, caulking guns, grease guns, air brushes, sandblaster, inflating tires or spraying weed killers, insecticides, etc. An air pressure regulator is supplied for these applications.

Separate air transformers which combine the functions of air regulation and/or moisture and dirt removal should be used where applicable.

ON-RECEIPT INSPECTION

DAMAGE: Each air compressor outfit is carefully tested and checked before shipment. With improper handling, damage may result in transit and cause problems with compressor operation.

Immediately upon arrival, check equipment for both concealed and visible damages to avoid expenses being incurred to correct such problems. This should be done regardless of any visible signs of damage to the shipping container. If this

product was shipped directly to you, report any damages to the carrier and arrange for inspection of goods immediately.

STORAGE

Before you store the air compressor, make sure you do the following:

1. Review the "Maintenance" and "Operating Procedures" sections and perform maintenance as necessary. Be sure to drain water from the air tank.
2. Protect the electrical cord and air hose from damage (such as being stepped on or run over). Store the air compressor in a clean and dry location.

DESCRIPTION OF OPERATION

DRAIN VALVE: The drain valve is located at the bottom of the air tank and is used to drain condensation at the end of each use.

MOTOR THERMAL OVERLOAD PROTECTOR: The electric motor has a manual thermal overload protector. If the motor overheats for any reason, the thermal overload protector will shut off the motor. Turn pressure switch to the "off" position and wait for unit to cool before pushing the reset button and restarting the compressor.

ON/AUTO - OFF SWITCH: Turn this switch to "on" to provide automatic power to the pressure

switch and to "off" to remove power when finished using the compressor or when compressor will be left unattended.

AIR INTAKE FILTER: This filter is designed to clean air coming into the compressor pump. This filter must always be clean and free from obstructions. See "Maintenance".

AIR COMPRESSOR PUMP: To compress air, the piston moves up and down in the cylinder. On the down stroke, air is drawn in through the air intake valve. The exhaust valve remains closed. On the upstroke of the piston, air is compressed. The intake valve closes and compressed air is forced out through the exhaust valve, through the outlet tube, through the check valve and into the air tank. Useable air is not available until the compressor has raised the air tank pressure above that required at the air outlet.

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.

PRESSURE SWITCH UNLOADING VALVE: The pressure switch unloading 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. **PRESSURE SWITCH:** The pressure switch automatically starts the motor when the air tank pressure drops to 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 will protect against high pressure by “popping out” at its factory set pressure (slightly higher than the pressure switch “cut-out” setting).

OUTLET PRESSURE GAUGE: The outlet pressure gauge indicates the air pressure available at the outlet side of the regulator. This pressure is controlled by the regulator and is always less or equal to the tank pressure. See “Operating Procedures”.

TANK PRESSURE GAUGE: The tank pressure gauge indicates the air pressure in the tank.

REGULATOR: The air pressure coming from the air tank is controlled by the regulator knob. Turn the knob clockwise to increase pressure and counter-clockwise to decrease pressure. To avoid minor re-adjustment after making a change in pressure setting, always approach the desired pressure from a lower pressure. When reducing from a higher to a lower setting, first reduce to some pressure less than desired pressure. Depending on the air requirements of each particular

accessory, the outlet regulated air pressure may have to be adjusted while you are operating the accessory.

INSTALLATION AND BREAK-IN PROCEDURES

LOCATION OF THE AIR COMPRESSOR

Locate the air compressor in a clean, dry and well-ventilated area. The air filter must be kept clear of obstructions, which could reduce air delivery of the air compressor. The air compressor should be located at least 12 inches away from the wall or other obstructions that will interfere with the flow of air. The air compressor head and shroud are designed to allow for proper cooling. If humidity is high, an air filter can be installed on the air outlet adapter to remove excessive moisture. Follow the instructions packaged with the air filter for proper installation.

LUBRICATION AND OIL

CAUTION: Do not attempt to operate this air compressor without first adding oil to the crankcase. Serious damage will result from even limited operation unless filled with oil and broken in correctly. Make sure to closely follow initial start-up procedures. Compressor oil is provided; on a level surface, please fill the crankcase to proper level indicated on the sight glass.

WARNING: Compressors are shipped without oil. A small

amount of oil may be present in the pump upon receipt of the air compressor. This is due to factory testing and does not mean the pump contains oil.

CAUTION: Multi-Viscosity motor oils, like 10W 30, should not be used in an air compressor. They leave carbon deposits on critical components, thus reducing performance and compressor life. Use air compressor oil only.

Initial Start Up Procedure:

1. Open the air receiver's drain valve.
2. Plug power supply cord into correct power source.
3. Run the compressor for a minimum of twenty (20) minutes in the no-load condition to lubricate the bearings and pistons, and to seat the piston rings.
4. Close air receiver drain valve. Your compressor is now ready for use.

Extension Cords

To avoid voltage drop, power loss, and overheating of the motor, use extra air hose instead of an extension cord. Low voltage can cause damage to the motor.

If an extension cord must be used:

- Use only an approved 3-wire extension cord that has a 3-blade grounding plug and a 3-slot receptacle that will accept the plug on the air compressor.
- Make sure the extension cord is in good condition.

Please see the chart below as the MINIMUM requirements:

Amp Rating	Length of Cord in Feet				
	(120 Volts)	25'	50'	100'	150'
10-12	16	14	10	8	
12-14	16	12	10	8	
14-16	16	12	10	8	
16-18	14	12	8	8	
18-20	14	12	8	8	

Piping

Plastic or PVC pipe is not designed for use with compressed air. Regardless of its indicated pressure rating, plastic pipe can burst from air pressure. Use only metal pipe for air distribution lines.

If a pipe line is necessary, use pipe that is the same size, or larger than, the air tank outlet. Piping that is too small will restrict the flow of air. If piping is over 100 feet long, use the next larger size. Bury underground lines below the frost line and avoid pockets where condensation can gather and freeze. Apply pressure before underground lines are covered to make sure all pipe joints are free of leaks.

Grounding Instruction

WARNING: Risk of electric shock! In the event if 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 air compressor is equipped with a cord having a grounding wire with an appropriate

grounding plug. The plug must be used with an outlet that has been installed and grounded in accordance with all local codes and ordinances. The outlet must have the same configuration as the plug. **DO NOT USE AN ADAPTER.**

Inspect the plug and cord before each use. Do not use if there are signs of damage.

DANGER: Improper grounding can result in electrical shock. Do not modify the plug that has been provided. If it does not fit the available outlet, the correct outlet should be installed by a qualified electrician.

OPERATING PROCEDURES

Daily Start-up Checklist

1. Before attaching air hose or accessories, make sure the pressure switch lever is set to "OFF" and the air regulator or shut-off valve is closed.
2. Attach hose and accessories. 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.
3. Turn the pressure switch lever to "ON/AUTO" and allow tank pressure to build. Motor will stop when tank pressure reaches "cut-out" pressure.

4. Open the regulator by turning it clockwise. Adjust the regulator to the correct pressure setting. Your compressor is ready for use.
5. Always operate the air compressor in well-ventilated areas; free of gasoline or other solvent vapors. Do not operate the compressor near the spray area.

When you are finished:

6. Set the pressure switch lever to "OFF".
7. Using the air tool or accessory, bleed the tank pressure down to zero.
8. Remove the air tool or accessory.
9. Drain water from air tank by opening drain cock valve on bottom of tank. **WATER WILL CONDENSE IN THE AIR TANK. IF NOT DRAINED, WATER WILL CORRODE AND WEAKEN THE AIR TANK CAUSING A RISK OF AIR TANK RUPTURE.**

Note:

If drain cock valve is plugged, release all air pressure. The valve can then be removed, cleaned, then reinstalled.

10. After the water has been drained, close the drain valve. The air compressor can now be stored.

MAINTENANCE

WARNING: UNIT CYCLES AUTOMATICALLY WHEN POWER IS ON. WHEN DOING MAINTENANCE, YOU MAY BE EXPOSED TO VOLTAGE SOURCES, COMPRESSED AIR OR MOVING PARTS. PERSONAL INJURIES CAN OCCUR. BEFORE PERFORMING ANY MAINTENANCE OR REPAIR, UNPLUG THE COMPRESSOR AND BLEED OFF ALL AIR PRESSURE.

To ensure efficient operation and longer life of the air compressor unit, a routine maintenance schedule should be prepared and followed. The following routine maintenance schedule is geared to a unit in a normal working environment operating on a daily basis. If necessary, the schedule should be modified to suit the conditions under which your compressor is used. The modifications will depend upon the hours of operation and the working environment.

Compressor units in an extremely dirty and/or hostile environment will require a greater frequency of all maintenance checks.

ROUTINE MAINTENANCE SCHEDULE

1. Drain water from the air tank, any moisture separators or transformers.
2. Check for any unusual noise and/or vibration.
3. Manually check all safety valves to make sure they are operating properly.
4. Inspect air filter, replace if necessary.
5. Inspect air lines and fittings for leaks; correct as necessary.

Each year of operation or if a problem is suspected:

- Check condition of air compressor pump intake and exhaust valves.
- Check condition of check valve. Replace if damaged or worn out.

Filling with Oil:

1. Remove the oil filler plug.
2. Slowly pour the proper oil into the pump crankcase.
3. Always keep oil level in the middle of the sight glass.

Changing the Oil:

Note: Every 300 hours or 3 months, whichever comes first.

1. Remove the oil drain plug.

COLD WEATHER CONDITIONS:

AMBIENT TEMPERATURES AT POINT OF OPERATION	SAE VISCOSITY	ISO VISCOSITY
-16°C TO 0°C (3.2°F - 32°F)	SAE 10W	ISO 32
1°C TO 26°C (33.8°F - 78.8°F)	SAE 20W	ISO 68
ABOVE 27°C (80.6°F)	SAE 30W	ISO 100

- Allow oil to drain completely.
2. Replace the oil drain plug (The use of a sealing compound or Teflon tape to avoid leakage is recommended.)
 3. Refill with the recommended oil to the proper level.

SERVICE INSTRUCTIONS

Air Filter - Inspection and Replacement:

- Keep the air filter clean at all times. Do not operate the compressor with the air filter removed.
- A dirty air filter will not allow the compressor to operate at full capacity. Before you use the compressor, check the air filter to be sure it is clean.
- If it is dirty, check and replace the filter element.

WARNING: SAFETY VALVE – INSPECTION IF THE SAFETY VALVE DOES NOT WORK PROPERLY, OVER-PRESSURIZATION MAY OCCUR, CAUSING AIR TANK RUPTURE OR AN EXPLOSION. OCCASIONALLY PULL THE RING ON THE SAFETY VALVE TO MAKE SURE THAT THE SAFETY VALVE OPERATES FREELY. IF THE VALVE IS STUCK OR DOES NOT OPERATE SMOOTHLY, IT MUST BE REPLACED WITH THE SAME TYPE OF VALVE.

Units with External Brass Check Valve Replacement

1. Release all air pressure from air tank and unplug outfit.
2. Remove shroud.
3. Loosen the top and bottom nut of the outlet tube and remove.
4. Remove the pressure release tube and fitting.
5. Unscrew the check valve (turn counterclockwise) using a socket wrench.
6. Check that the valve disc moves freely inside the check valve and that the spring holds the disc in the upper, closed position. The check valve may be cleaned with a suitable solvent.
7. Apply sealant to the check valve threads. Reinstall the check valve (turn clockwise).
8. Replace the pressure release tube and fitting.
9. Replace the outlet tube and tighten top and bottom nuts.
10. Replace the shroud.

Motor

The motor has a manual reset thermal overload protector switch. If the motor overheats for any reason, the overload protector will shut off the motor. The motor must be allowed to cool down before resetting the overload switch and restarting.

If the overload protector shuts the motor off frequently, check for a possible voltage problem. Low voltage can also be suspected when:

1. The motor does not get up to full power or speed.
2. Fuses blow out when starting the motor; lights dim and remain dim when motor is started and is running.

TROUBLESHOOTING GUIDE

PERFORMING REPAIRS MAY EXPOSE VOLTAGE SOURCES, MOVING PARTS OR COMPRESSED AIR SOURCES. PERSONAL INJURY MAY OCCUR. PRIOR TO ATTEMPTING ANY REPAIRS, UNPLUG THE COMPRESSOR AND BLEED OFF TANK AIR PRESSURE.

PROBLEM	CAUSE	CORRECTION
Excessive tank pressure - safety valve pops off.	Defective pressure switch. Improper wiring.	<ul style="list-style-type: none"> • Move the pressure switch lever to the "OFF" position. If the unit doesn't shut off, unplug. If the electrical contacts are welded together, replace the pressure switch. • If the contacts are good, check to see if the pin in the pressure release valve is stuck. If it does not move freely, replace the valve. • Adjust or replace pressure switch.
Air leaks at fittings.	Fittings are not tight enough.	Tighten fittings where air can be heard escaping. Check fittings with a soap and water solution. DO NOT OVER TIGHTEN.
Air leaks at or inside check valve.	Defective or dirty check valve.	A defective check valve results in a constant air leak at the pressure release valve where there is a pressure in the tank and the compressor is shut off. Remove and clean or replace check valve. DO NOT OVER TIGHTEN.
Air leaks at pressure switch unloader valve.	Defective pressure switch unloader valve, or defective check valve.	Contact a trained service technician.
Air leaks in air tank or at air tank welds.	Defective air tank.	Air tank must be replaced. Do not repair the leak. WARNING DO NOT DRILL INTO, WELD OR OTHERWISE MODIFY AIR TANK OR IT WILL WEAKEN. THE TANK CAN RUPTURE OR EXPLODE.
Air leaks between head and valve plate.	Blown head gasket.	Replace gasket or contact Authorized Service Technician.

PROBLEM	CAUSE	CORRECTION
Pressure reading on the regulated pressure gauge drops when accessory is used.	It is normal for "some" pressure drop to occur.	If there is an excessive amount of pressure drop when the accessory is used, adjust the regulator following the instructions. Note: Adjust the regulated pressure under flow conditions (while accessory is being used).
Air leak from safety valve.	Possible defective safety valve.	Operate safety valve manually by pulling on ring. If valve still leaks, it should be replaced.
Compressor is not supplying enough air to operate accessories.	<ul style="list-style-type: none"> • Prolonged excessive use of air. • Compressor is not large enough for air requirement. • Restricted air intake filter. • Unit is not plugged in. • Hole in hose. • Check valve restricted. • Air leaks. 	<ul style="list-style-type: none"> • Decrease amount of air usage. • Check the accessory air requirement. If it is higher than the SCFM or pressure supplied by your air compressor, you need a larger compressor. • Clean or replace air intake filter. Do not operate the air compressor in the paint spray area. • Plug unit into "live" electrical outlet. • Check and replace if required. • Remove and clean, or replace. • Tighten fittings. (See Air Leaks section of troubleshooting guide).
Motor will not run.	<ul style="list-style-type: none"> • Motor overload protection switch has tripped. • Tank pressure exceeds pressure switch "cut-in" pressure. 	<ul style="list-style-type: none"> • Let motor cool off and reset overload switch. • Motor will start automatically when tank pressure drops below "cut-in" pressure of pressure switch.

PROBLEM	CAUSE	CORRECTION
Motor will not run. (con't)	<ul style="list-style-type: none"> • Check valve is stuck open. • Loose electrical connections. • Possible defective capacitor. • Paint spray on internal motor parts. • Possible defective motor. • Fuse Blown, circuit breaker tripped. • Pressure unloader valve on pressure switch has not unloaded head pressure. 	<ul style="list-style-type: none"> • Remove and clean, or replace. • Check wiring connection inside pressure switch and terminal box area. • Return to an Authorized Warranty Service Center for inspection or replacement if necessary. • Have checked at an Authorized Warranty Service Center. Do not operate the compressor in the paint spray area. See flammable vapor warning. • Have checked at an Authorized Warranty Service Center. <ol style="list-style-type: none"> 1. Check fuse box for blown fuse and replace. If necessary, reset circuit breaker. Do not use a fuse or circuit breaker with higher rating than specified for your particular branch circuit. 2. Check for low voltage conditions and/or proper extension cord. 3. Disconnect the other electrical appliances from circuit or operate the compressor on its own branch circuit. <ul style="list-style-type: none"> • Bleed the line by pushing the lever on the pressure switch to the "off" position; if the valve does not open, replace it.
Regulator knob has continuous air leak. Regulator will not shut off at air outlet.	Dirty or damaged regulator internal parts.	Replace regulator.

FACTORY SERVICE CENTERS

1-800-4-MAKITA

RETAIN THIS PORTION FOR YOUR RECORDS

ARIZONA

3707 E. Broadway Road, Suite 6
Phoenix, AZ 85040
(602) 437-2850

CALIFORNIA

41850 Christy Street
Fremont, CA 94538-5107
(510) 657-9881

14930 Northam Street
La Mirada, CA 90638-5753
(714) 522-8088

1970 Fulton Avenue
Sacramento, CA 95825
(916) 482-5197

7674 Clairemont Mesa Boulevard
San Diego, CA 92111
(858) 278-4471

16735 Saticoy Street, Suite 105
Van Nuys, CA 91406
(818) 782-2440

COLORADO

11839 E. 51st Avenue
Denver, CO 80239-2709
(303) 371-2850

FLORIDA

750 East Sample Road
Pompano Beach, FL 33064
(954) 781-6333

GEORGIA

4680 River Green Parkway NW
Duluth, GA 30096
(770) 476-8911

ILLINOIS

1450 Feehanville Drive
Mt. Prospect, IL 60056-6011
(847) 297-3100

MARYLAND

7397 Washington Boulevard
Suite 104
Elkridge, MD 21075
(410) 796-4401

MASSACHUSETTS

232 Providence Highway
Westwood, MA 02090
(781) 461-9754

MINNESOTA

6427 Penn Avenue South
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(612) 869-5199

MISSOURI

9876 Watson Road
St. Louis, MO 63126
(314) 909-9889

NEBRASKA

4129 S. 84th Street
Omaha, NE 68127
(402) 597-2925

NEVADA

3375 S. Decatur Boulevard
Suites 22-24
Las Vegas, NV 89102
(702) 368-4277

NEW JERSEY

251 Herrod Boulevard
Dayton, NJ 08810-1539
(609) 655-1212

NEW YORK

4917 Genesee Street
Cheektowaga, NY 14225
(716) 685-9503

OREGON

828 19th Avenue, N.W.
Portland, OR 97209
(503) 222-1823

PENNSYLVANIA

1904 Babcock Boulevard
Pittsburgh, PA 15209
(412) 822-7370

PUERTO RICO

200 Guayama Street
Hato Rey, PR 00917
(787) 250-8776

TENNESSEE

1120 Elm Hill Pike, Suite 170
Nashville, TN 37210
(615) 248-3321

TEXAS

12801 Stemmons Fwy.
Suite 809
Farmers Branch, TX 75234
(972) 243-1150

12701 Directors Drive
Stafford, TX 77477-3701
(281) 565-8665

3453 IH-35 North, Suite 101
San Antonio, TX 78219
(210) 228-0676

WISCONSIN

2245 S. 108th Street
West Allis, WI 53227
(414) 541-4776

Customer Record

When you need service: Send complete tool (prepaid) to one of the Makita Factory Service Centers listed, or to an Authorized Makita Service Center. Be sure to attach a letter to the outside of the carton detailing the problem with your tool.	Date Purchased
	Dealer's Name and Address
	Model No.
	Serial No.

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 examples of these chemicals are:

- lead from lead-based paints,
- crystalline silica from bricks and cement and other masonry products, and
- 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, such as those dust masks that are specially designed to filter out microscopic particles.

MAKITA LIMITED ONE YEAR WARRANTY Warranty Policy

Every Makita tool is thoroughly inspected and tested before leaving the factory. It is warranted to be free of defects from workmanship and materials for the period of ONE YEAR from the date of original purchase. Should any trouble develop during this one year period, return the COMPLETE tool, freight prepaid, to one of Makita's Factory or Authorized Service Centers. If inspection shows the trouble is caused by defective workmanship or material, Makita will repair, (or at our option, replace), without charge.

This warranty does not apply where:

- repairs have been made or attempted by others;
- repairs are required because of normal wear and tear;
- the tool has been abused, misused or improperly maintained;
- alterations have been made to the tool.

IN NO EVENT SHALL MAKITA BE LIABLE FOR ANY INDIRECT, INCIDENTAL OR CONSEQUENTIAL DAMAGES FROM THE SALE OR USE OF THE PRODUCT. THIS DISCLAIMER APPLIES BOTH DURING AND AFTER THE TERM OF THIS WARRANTY.

MAKITA DISCLAIMS LIABILITY FOR ANY IMPLIED WARRANTIES, INCLUDING IMPLIED WARRANTIES OF "MERCHANTABILITY" AND "FITNESS FOR A SPECIFIC PURPOSE," AFTER THE ONE YEAR TERM OF THIS WARRANTY.

This Warranty gives you specific legal rights, and you may also have other rights which vary from state to state. Some states do not allow the exclusion or limitation of incidental or consequential damages, so the above limitation or exclusion may not apply to you. Some states do not allow limitation on how long an implied warranty lasts, so the above limitation may not apply to you.

Makita Corporation
3-11-8, Sumiyoshi-cho,
Anjo, Aichi 446-8502 Japan

MAIL THIS PORTION

Your answers to the following questions are appreciated.

1. This product was purchased from:

- Home Center Other ()
 Hardware/Lumber Store
 Tool Distributor
 Industrial Supply
 Construction Supply

3. How did you learn about this product:

- Magazine Radio
 From Dealer Exhibition
 Newspaper From Friend
 Store Display Previous Usage
 Catalog Other ()

2. Use of the product is intended for:

- Construction Trade
 Industrial Maintenance
 Home Maintenance
 Hobby
 Other ()

4. Most favored points are:

- Design Repair Service
 Features Durability
 Size Power
 Price Other ()
 Makita Brand

5. Any comments:

DATE PURCHASED			MODEL NO.		
MONTH	DAY	YEAR	SERIAL NO.		
<input type="text"/>	<input type="text"/>	<input type="text"/>			
INTL. LAST NAME/COMPANY NAME		STATUS	SEX		
<input type="text"/>		Married Single	M F		
<input type="text"/>		<input type="text"/>	<input type="text"/>		<input type="text"/>
STREET ADDRESS					
<input type="text"/>					
CITY					
<input type="text"/>					
STATE	ZIP CODE	AREA CODE		PHONE	
<input type="text"/>	<input type="text"/>	<input type="text"/>		<input type="text"/>	
AGE: <input type="checkbox"/> Under 19 <input type="checkbox"/> 20-29 <input type="checkbox"/> 30-39 <input type="checkbox"/> 40-49 <input type="checkbox"/> 50-59 <input type="checkbox"/> Over 60					

BE SURE TO COMPLETE THE CUSTOMER'S PORTION OF THIS FORM AND RETAIN FOR YOUR RECORDS
 Please return this portion by facsimile or mail.
 Facsimile Number (714) 522-8133

Makita U.S.A., Inc.
14930 Northam Street
La Mirada, CA 90638-5753

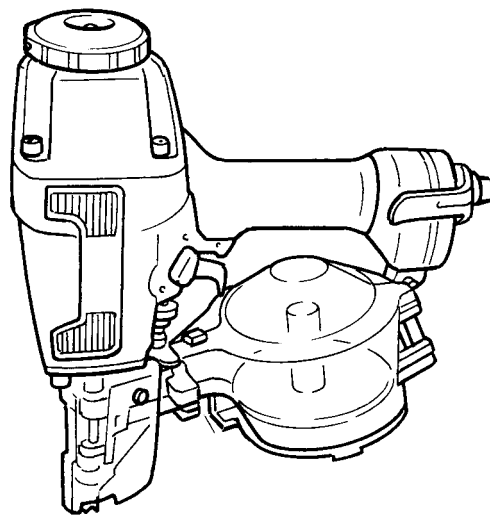
First Class
Postage Required

Post Office will
not deliver
without proper
postage

Construction Coil Nailer

MODEL AN611

INSTRUCTION MANUAL



SPECIFICATIONS

Air pressure	Applicable length	Nail capacity
4.5 – 8.5 kgf/cm ² G (65 – 120 PSIG)	32 mm, 38 mm, 45 mm, 50 mm, 57 mm, 65 mm (1-1/4", 1-1/2", 1-3/4", 2", 2-1/4", 2-1/2")	300 – 400 pcs.
Min. hose diameter	Dimensions (L x W x H)	Net weight
6.5 mm (1/4")	332 mm x 127 mm x 317 mm (13-1/16" x 5" x 12-1/2")	2.2 kg (4.9 lbs)

* Manufacturer reserves the right to change specifications without notice.

* Note: Specifications may differ from country to country.

WARNING: For your personal safety, READ and UNDERSTAND before using.

IMPORTANT SAFETY INSTRUCTIONS

WARNING: WHEN USING THIS TOOL, BASIC SAFETY PRECAUTIONS SHOULD ALWAYS BE FOLLOWED TO REDUCE THE RISK OF PERSONAL INJURY, INCLUDING THE FOLLOWING:

READ ALL INSTRUCTIONS.

- For personal safety and proper operation and maintenance of the tool, read this instruction manual carefully before using the tool.



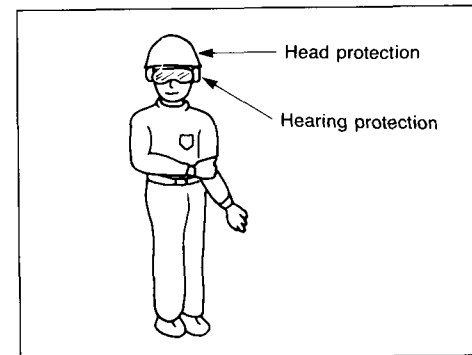
- Always wear safety glasses to protect your eyes from dust or nail injury. The safety glasses should conform with the requirements of ANSI Z87. 1 – 1979.

WARNING:

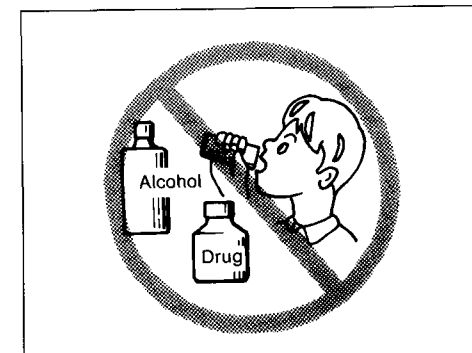
It is an employer's responsibility to enforce the use of safety eye protection equipment by the tool operators and by other persons in the immediate working area.



- Wear hearing protection to protect your ears against exhaust noise and head protection. Also wear light but not loose clothing. Sleeves should be buttoned or rolled up. No necktie should be worn.



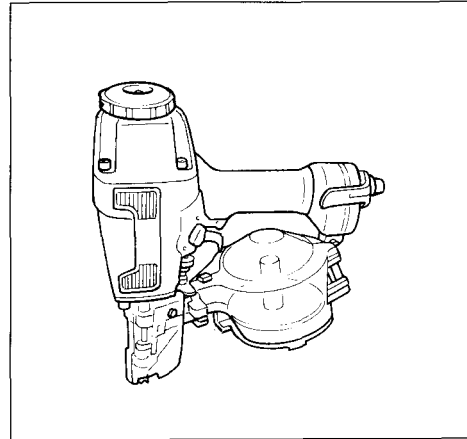
- Rushing the job or forcing the tool is dangerous. Handle the tool carefully. Do not operate when under the influence of alcohol, drugs or the like.



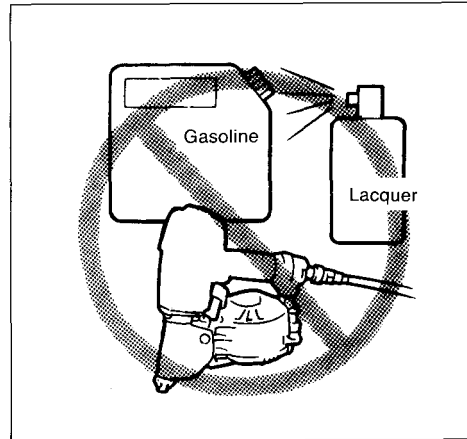
• **General Tool Handling Guidelines:**

1. Always assume that the tool contains fasteners.
2. Do not point the tool toward yourself or anyone whether it contains fasteners or not.
3. Do not actuate the tool unless the tool is placed firmly against the workpiece.
4. Respect the tool as a working implement.
5. No horseplay.
6. Do not hold or carry the tool with a finger on the trigger.
7. Do not load the tool with fasteners when any one of the operating controls is activated.
8. Do not operate the tool with any power source other than that specified in the tool operating/safety instructions.

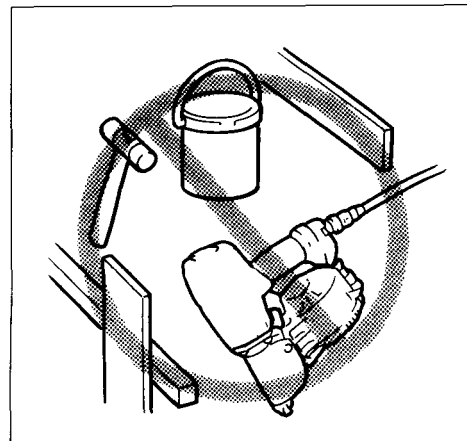
- An improperly functioning tool must not be used.



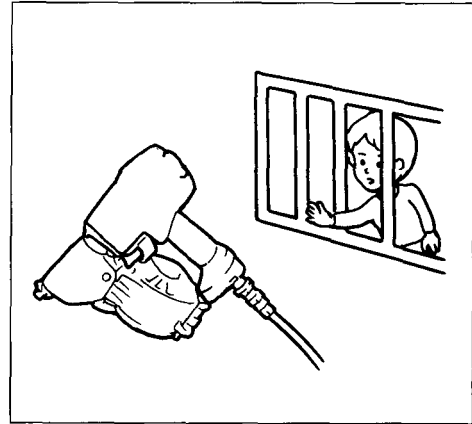
- Sparks sometimes fly when the tool is used. Do not use the tool near volatile, flammable materials such as gasoline, thinner, paint, gas, adhesives, etc.; they will ignite and explode, causing serious injury.



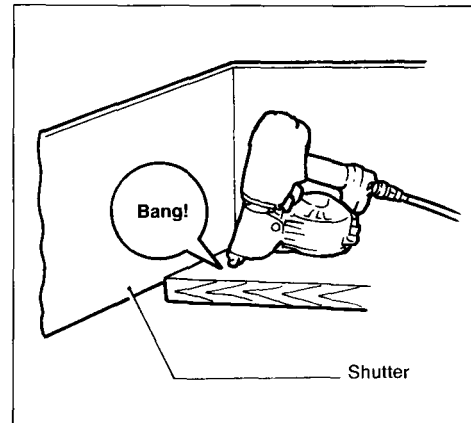
- The area should be sufficiently illuminated to assure safe operations. The area should be clear and litter-free. Be especially careful to maintain good footing and balance.



- Only those involved in the work should be in the vicinity. Children especially must be kept away at all times.

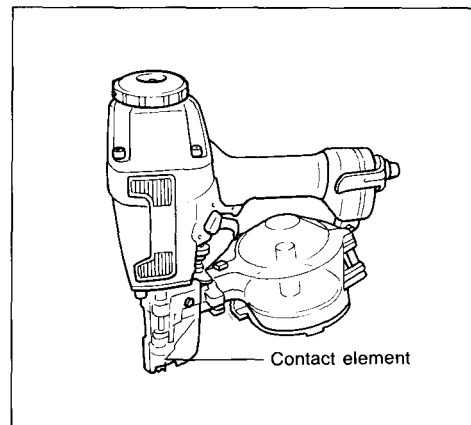


- There may be local regulations concerning noise which must be complied with by keeping noise levels within prescribed limits. In certain cases, shutters should be used to contain noise.

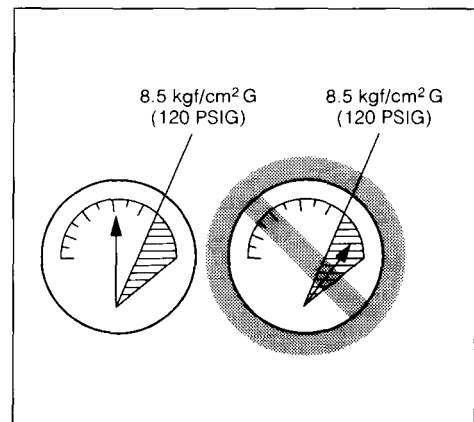


- Do not play with the contact element: it prevents accidental discharge, so it must be kept on and not removed. Securing the trigger in the ON position is also very dangerous. Never attempt to fasten the trigger.

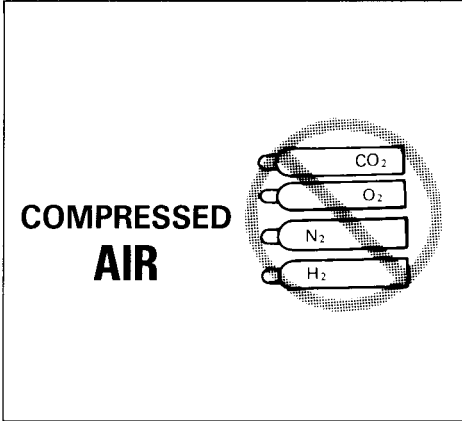
Do not operate a tool if any portion of the tool operating controls is inoperable, disconnected, altered, or not working properly.



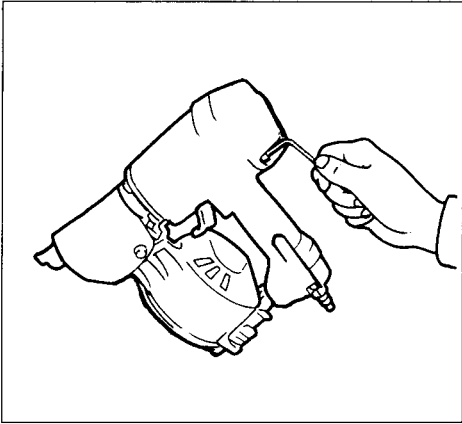
- Operate the tool within the specified air pressure of 4.5 – 8.5 kgf/cm²G (65 – 120 PSIG) for safety and longer tool life. Do not exceed the recommended max. operating pressure of 8.5 kgf/cm²G (120 PSIG). The tool should not be connected to a source whose pressure potentially exceeds 14.0 kgf/cm²G (200 PSIG).



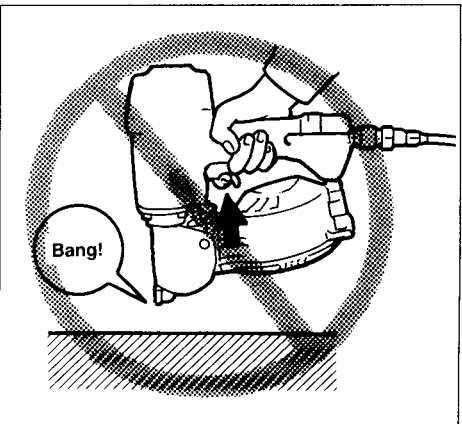
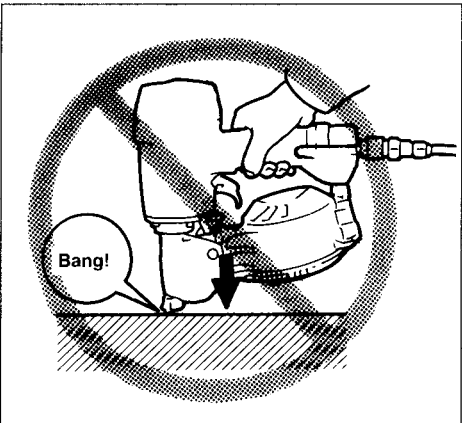
- **Never use the tool with other than compressed air.** If bottled gas (carbon dioxide, oxygen, nitrogen, hydrogen, air, etc.) or combustible gas (hydrogen, propane, acetylene, etc.) is used as a power source for this tool, the tool will explode and cause serious injury.



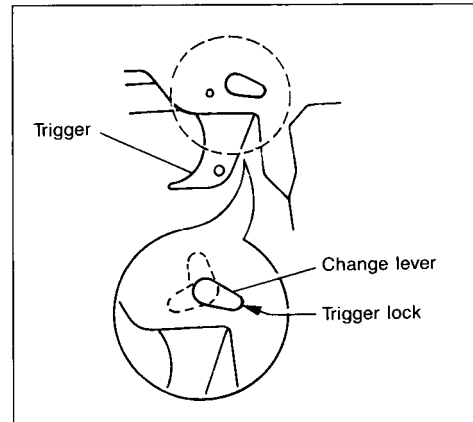
- **Always check the tool for its overall condition and loose screws before operation. Tighten as required.**



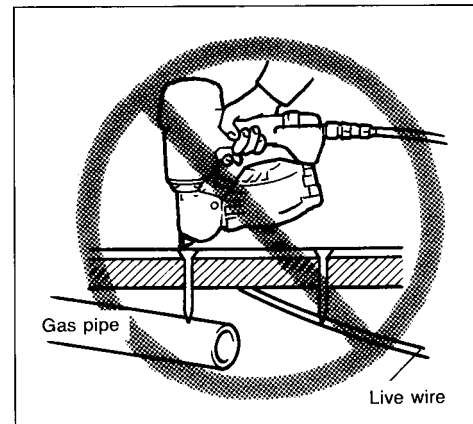
- **Make sure all safety systems are in working order before operation. The tool must not operate if only the trigger is pulled or if only the contact element is pressed against the wood. It must work only when both actions are performed. Test for possible faulty operation with nails unloaded.**



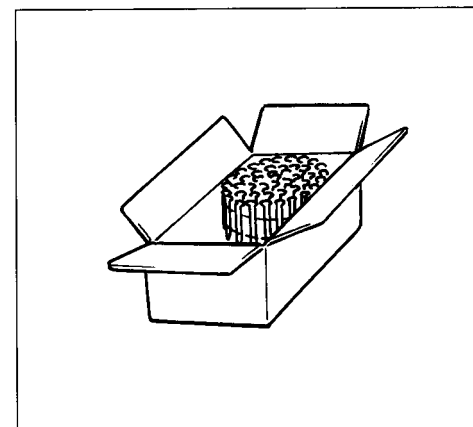
- Make sure that the trigger is locked when the change lever is set to the LOCK position.



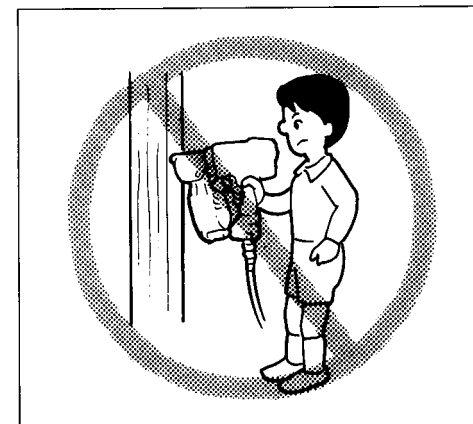
- Check walls, ceilings, floors, roofing and the like carefully to avoid possible electrical shock, gas leakage, explosions, etc. caused by striking live wires, conduits or gas pipes.



- Use only nails specified in this manual. The use of any other nails may cause malfunction of the tool.



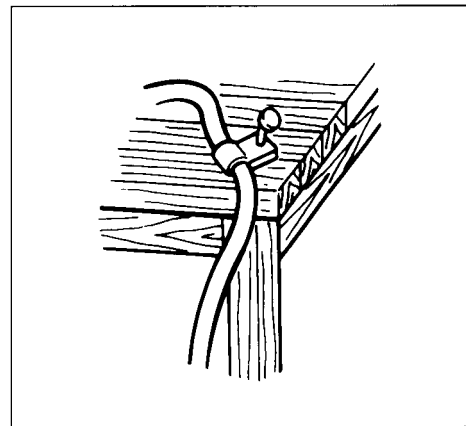
- Do not permit those uninstructed to use the tool.



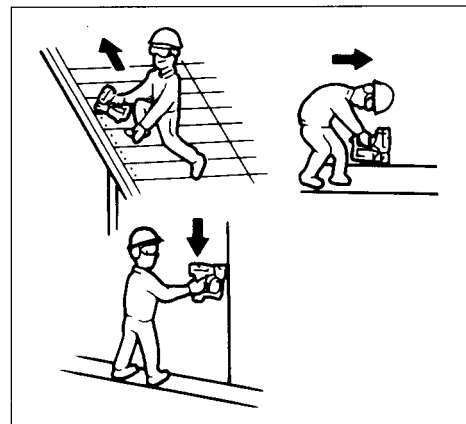
- **Make sure no one is nearby before nailing. Never attempt to nail from both the inside and outside at the same time. Nails may rip through and/or fly off, presenting a grave danger.**



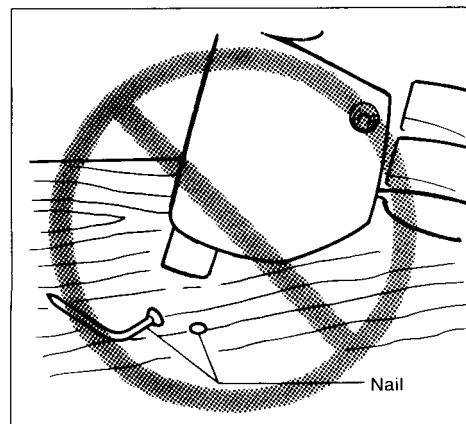
- **Watch your footing and maintain your balance with the tool. Make sure there is no one below when working in high locations, and secure the air hose to prevent danger if there is sudden jerking or catching.**



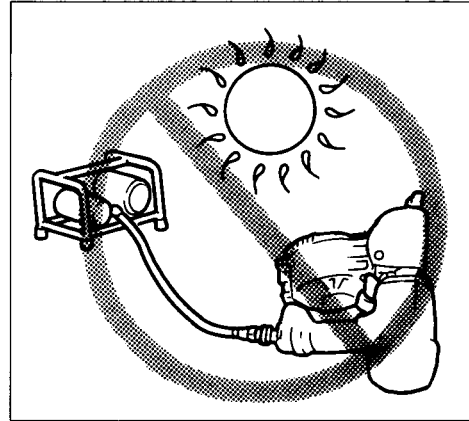
- **On rooftops and other high locations, nail as you move forward. It is easy to lose your footing if you nail while inching backward. When nailing against perpendicular surface, nail from the top to the bottom. You can perform nailing operations with less fatigue by doing so.**



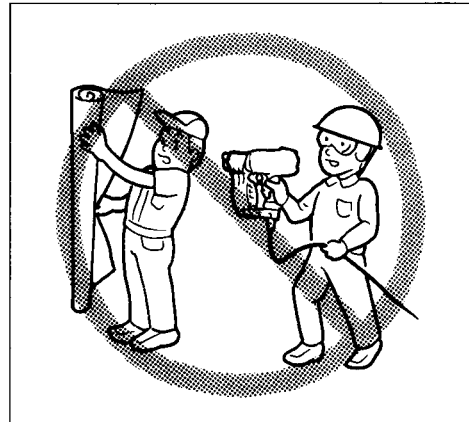
- **A nail will be bent or the tool can become jammed if you mistakenly nail on top of another nail or strike a knot in the wood. The nail may be thrown and hit someone, or the tool itself can react dangerously. Place the nails with care.**



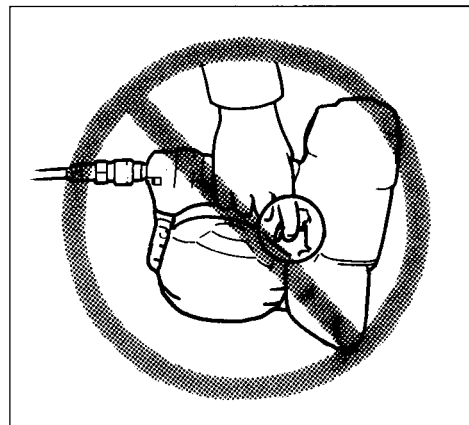
- Do not leave the loaded tool or the air compressor under pressure for a long time out in the sun. Be sure that dust, sand, chips and foreign matter will not enter the tool in the place where you leave it setting.



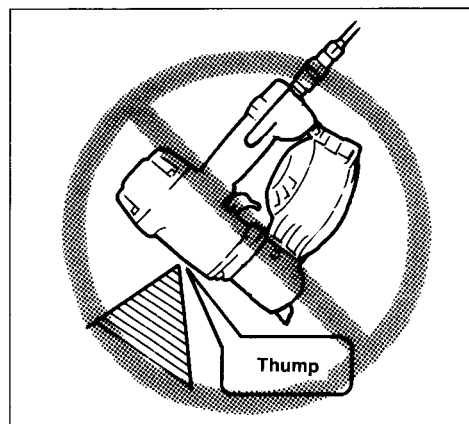
- Do not point the ejection port at anyone in the vicinity. Keep hands and feet away from the ejection port area.



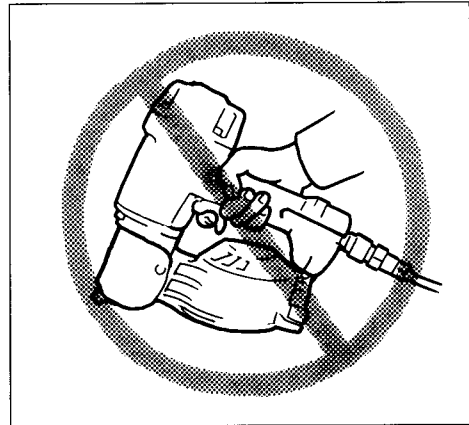
- When the air hose is connected, do not carry the tool with your finger on the trigger or hand it to someone in this condition. Accidental firing can be extremely dangerous.



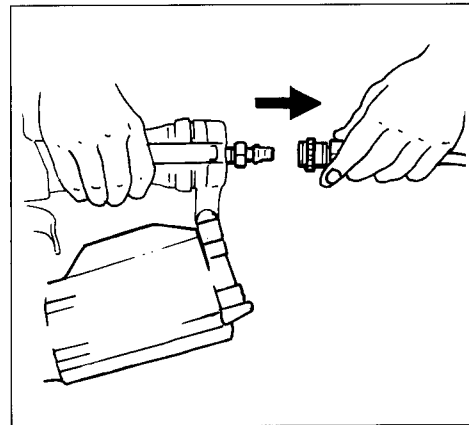
- Handle the tool carefully as there is high pressure inside the tool that can be dangerous if a crack is caused by rough handling (dropping or striking). Do not attempt to carve or engrave on the tool.



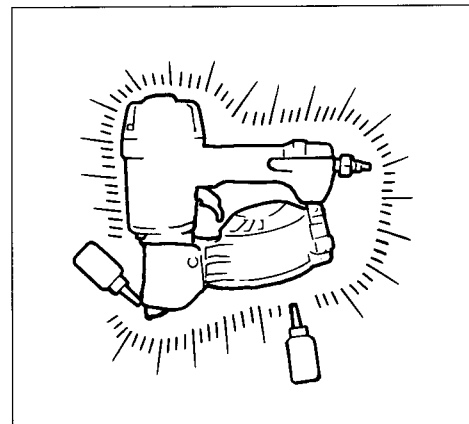
- Stop nailing operations immediately if you notice something wrong or out of the ordinary with the tool.



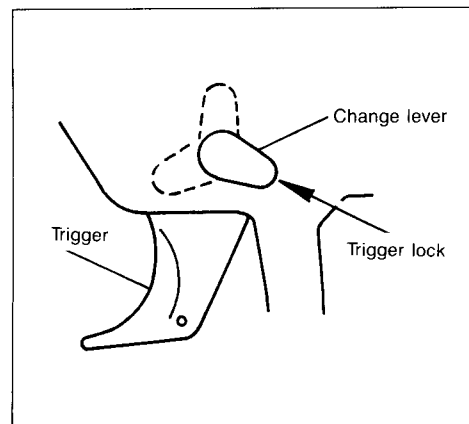
- Always disconnect the air hose and remove all of the nails:
 1. When unattended.
 2. Before performing any maintenance or repair.
 3. Before cleaning a jam.
 4. Before moving the tool to a new location.



- Perform cleaning and maintenance right after finishing the job. Keep the tool in tip-top condition. Lubricate moving parts to prevent rusting and minimize friction related wear. Wipe off all dust from the parts.



- When not operating the tool, always lock the trigger by turning the change lever to the LOCK position.



- Do not operate this tool if it does not contain a legible **WARNING LABEL**.



- Do not modify tool without authorization from Makita.
- Ask Makita's Factory or Authorized service center for periodical inspection of the tool.
- To maintain product **SAFETY** and **RELIABILITY**, maintenance and repairs should be performed by Makita Authorized or Factory Service Centers, always using Makita replacement parts.



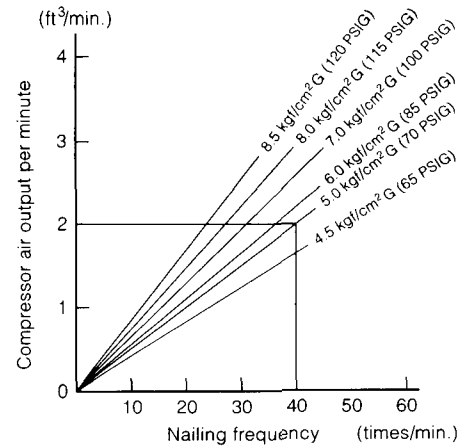
SAVE THESE INSTRUCTIONS.

TOOL INSTALLATION INSTRUCTIONS AND USE

Selecting compressor

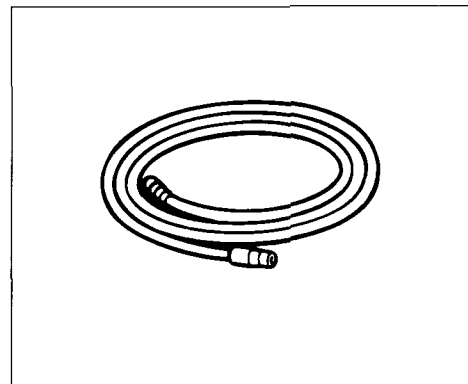
The air compressor must comply with the requirements of ANSI B19.3 - 1981.

Select a compressor that has ample pressure and air output to assure cost-efficient operation. The graph shows the relation between nailing frequency, applicable pressure and compressor air output. Thus, for example, if nailing takes place at a rate of approximately 40 times per minute at a compression of 5 kgf/cm²G (70 PSIG), a compressor with an air output over 2 ft³/minute is required. Pressure regulators must be used to limit air pressure to the rated pressure of the tool where air supply pressure exceeds the tool's rated pressure. Failure to do so may result in serious injury to tool operator or persons in the vicinity.



Selecting air hose

Use an air hose as large and as short as possible to assure continuous, efficient nailing operation. With an air pressure of 5 kgf/cm²G (70 PSIG), an air hose with an internal diameter of over 6.5 mm (1/4") and a length of less than 20 m (6.6 ft.) is recommended when the interval between each nailing is 0.5 seconds. Air supply hoses shall have a minimum working pressure rating of 10.7 kgf/cm²G (150 PSIG) or 150 percent of the maximum pressure produced in the system whichever is higher.

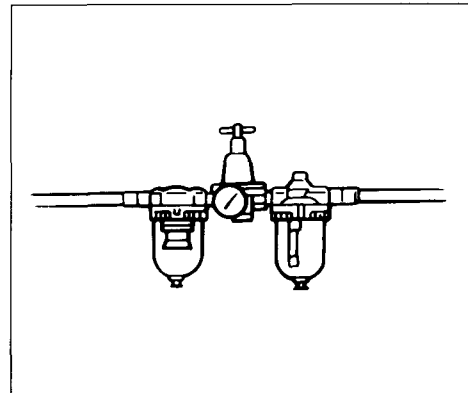


CAUTION:

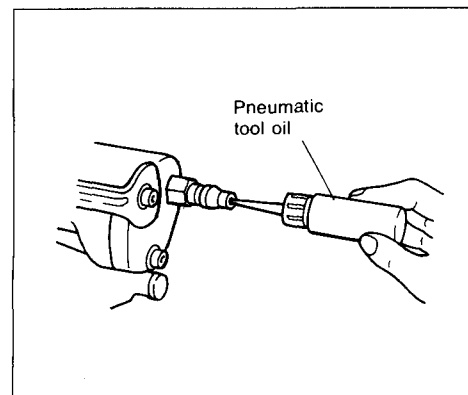
Low air output of the compressor, or a long or smaller diameter air hose in relation to the nailing frequency may cause a decrease in the driving capability of the tool.

Lubrication

To insure maximum performance, install an air set (oiler, regulator, air filter) as close as possible to the tool. Adjust the oiler so that one drop of oil will be provided for every 30 nails.



When an air set is not used, oil the tool with pneumatic tool oil by placing 2 (two) or 3 (three) drops into the air fitting. This should be done before and after use. For proper lubrication, the tool must be fired a couple of times after pneumatic tool oil is introduced.

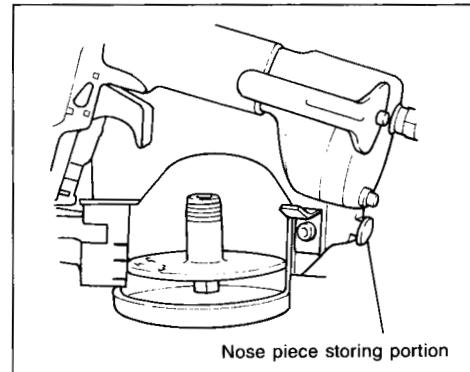


Nose adapter

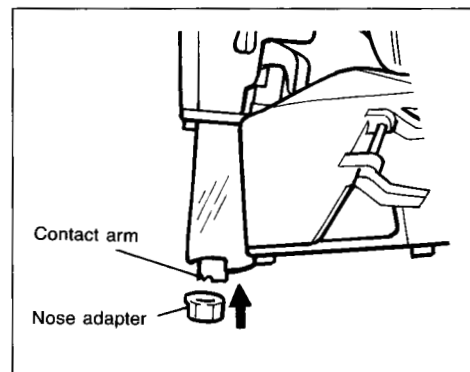
CAUTION:

Always lock the trigger and disconnect the hose before installing or removing the nose adapter.

When nailing workpieces with easily-marred surfaces, use the nose adapter. It is factory installed at the rear of the tool.



Attach the nose adapter to the contact arm (see right). When not in use, store the nose adapter at the rear of the tool to keep it from being lost.

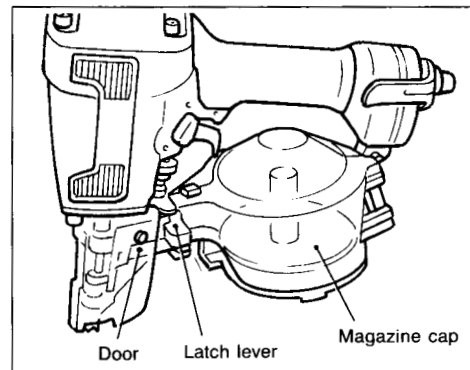


Loading nailer

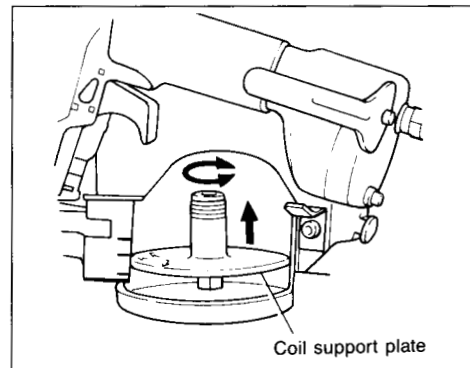
CAUTION:

Always lock the trigger and disconnect the hose before loading the nailer.

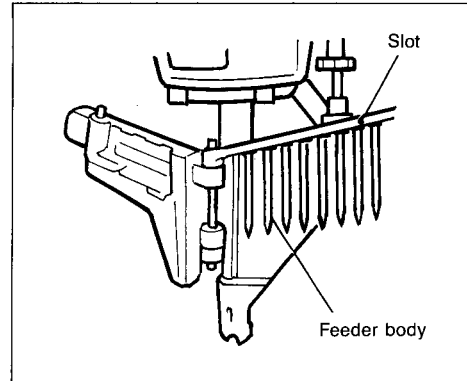
Select nails suitable for your work. Depress the latch lever and open the door and magazine cap.



Lift and turn the coil support plate to set it to the correct step. When loading 57 or 65 mm (2-1/4", 2-1/2") long nails, use the bottom step. When loading 45 or 50 mm (1-3/4", 2") long nails, use the middle step. When loading 32 or 38 mm (1-1/4", 1-1/2") long nails, use the top step. If the tool is operated with the coil support plate set to the wrong step, poor nail feed or malfunction of the tool may result.



Place the nail coil over the coil support plate. Uncoil enough nails to reach the feed claw. Place the first nail in the driver channel and the second nail in the feed claw. The nail heads must be in the slot in the feeder body. Place other uncoiled nails on feeder body. Close the magazine cap and door after checking to see that the nail coil is set properly in the magazine.

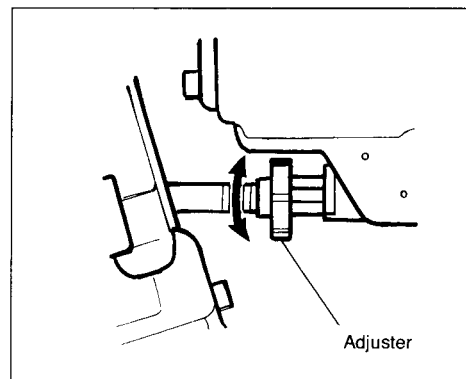


Adjusting depth of nailing

CAUTION:

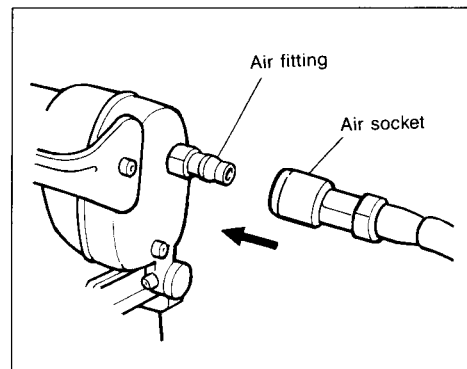
Always lock the trigger and disconnect the hose before adjusting the depth of nailing.

To adjust the depth of nailing, turn the adjuster so that the arrow above the adjuster will point to the number indicated on the adjuster. The depth of nailing is the deepest when the arrow points to the number 1. It will become shallower as the arrow points to higher number. The depth can be changed in approx. 1.0 mm (1/32") increments per graduation. If nails cannot be driven deep enough even when the arrow points to the number 1, increase the air pressure. If nails are driven too deep even when the arrow points to the number 9, decrease the air pressure. Generally speaking, the tool service life will be longer when the tool is used with lower air pressure and the adjuster set to a lower number.



Connecting air hose

Lock the trigger. Slip the air socket of the air hose onto the air fitting on the nailer. Be sure that the air socket locks firmly into position when installed onto the air fitting. A hose coupling must be installed on or near the tool in such a way that the pressure reservoir will discharge at the time the air supply coupling is disconnected.

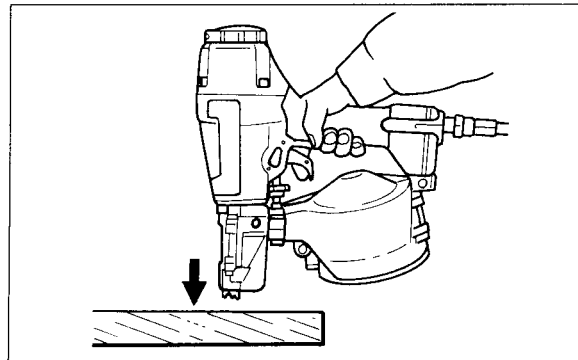
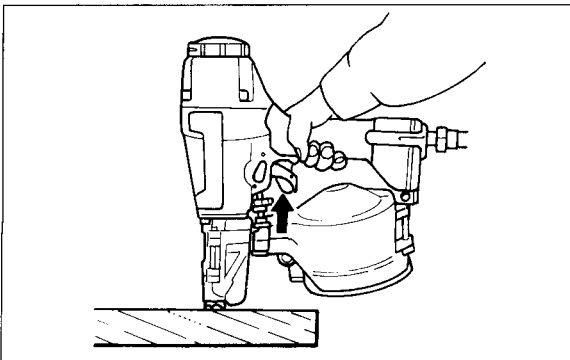


Operation

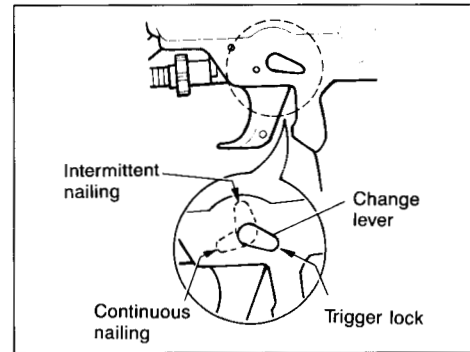
- 1) To drive a nail, you may place the contact element against the workpiece and pull the trigger, or
- 2) Pull the trigger first and then place the contact element against the workpiece.

No. 1 method is for intermittent nailing, when you wish to drive a nail carefully and very accurately.

No. 2 method is for continuous nailing.



For No. 1 method, set the change lever to the "Intermittent Nailing" position. For No. 2 method, set the change lever to the "Continuous Nailing" position. After using the change lever to change the nailing method, always make sure that the change lever is properly set to the position for the desired nailing method.

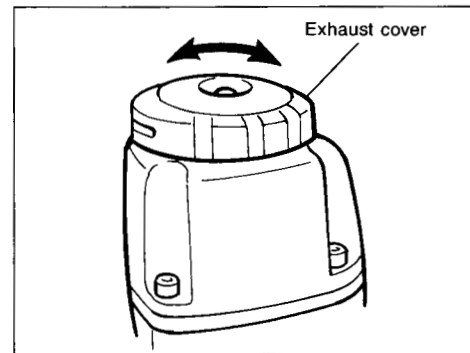


CAUTION:

Operating the tool without nails shortens the life of the tool and should be avoided.

Air exhaust

Air exhaust direction can be changed easily by rotating the exhaust cover. Change it when necessary.

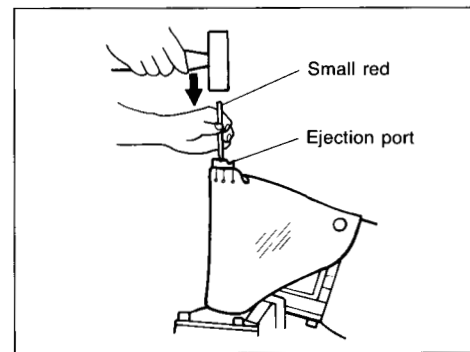


Jammed nailer

CAUTION:

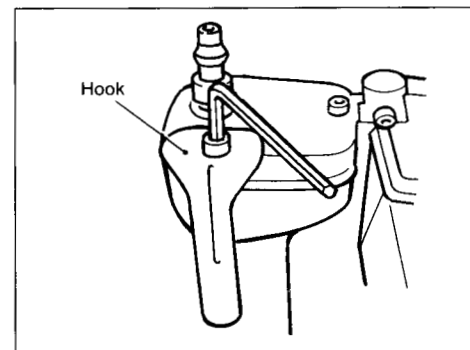
Always lock the trigger, disconnect the hose and remove the nails from the magazine before cleaning a jam.

When the nailer becomes jammed, proceed as follows: Open the door and magazine cap and remove the nail coil. Insert a small rod or the like into the ejection port and tap it with a hammer to drive out the nail jamming the ejection port. Reset the nail coil and close the magazine cap and door.



Hook

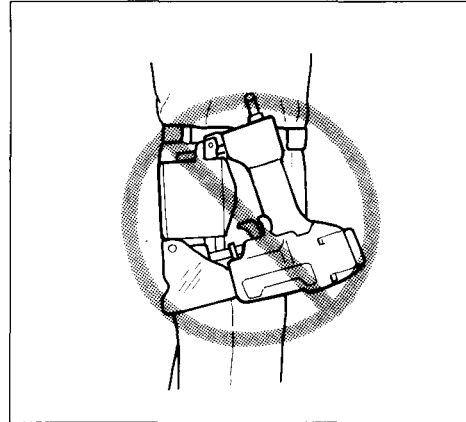
The hook is convenient for hanging the tool temporarily. This hook can be installed on either side of the tool.



CAUTION:

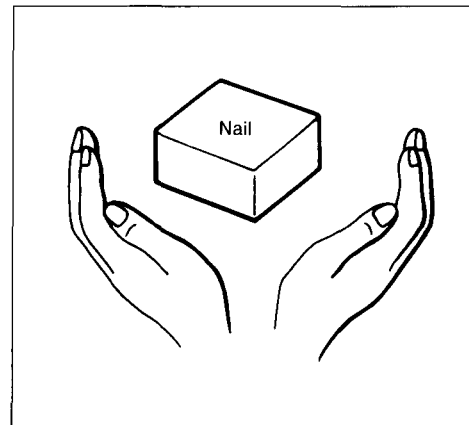
- Always lock the trigger and disconnect the hose when hanging the tool using the hook.
- Always tighten the hook securing bolt firmly. Loose bolt may cause air leakage from the tool.

- Never hang the tool on a waist belt or the like. Dangerous accidental firing may result.

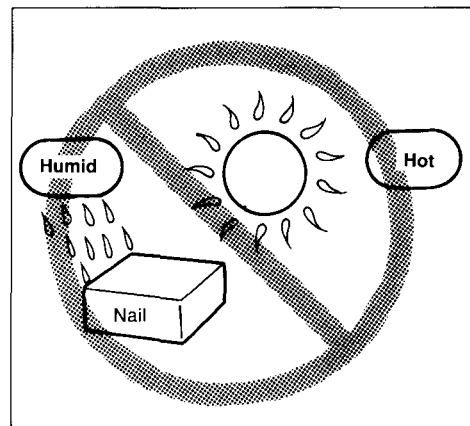


Nails

Handle nail coils and their box carefully. If the nail coils have been handled roughly, they may be out of shape or their connector breaks, causing poor nail feed.



Avoid storing nails in a very humid or hot place or place exposed to direct sunlight.



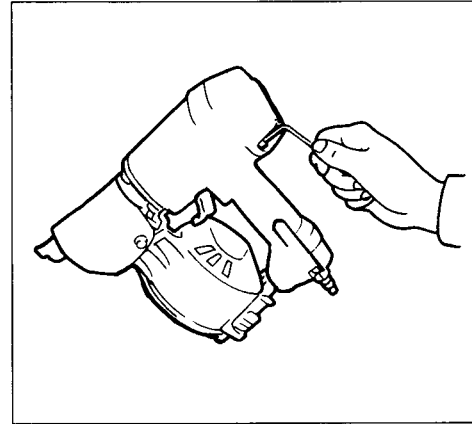
MAINTENANCE

CAUTION:

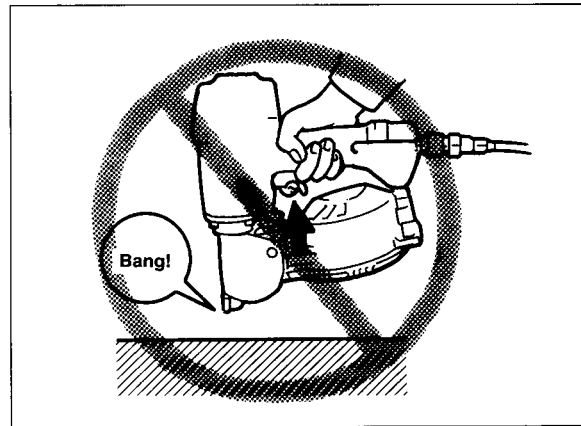
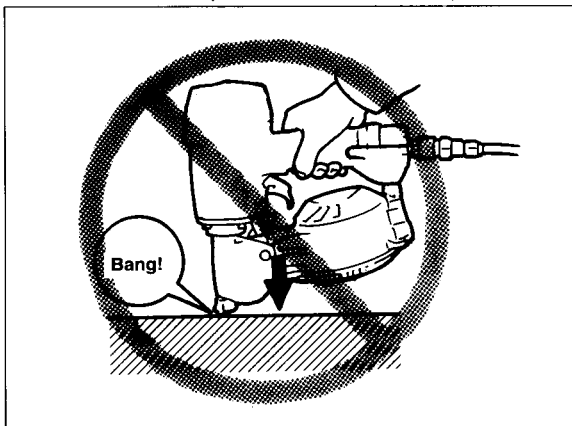
Always be sure that the trigger is locked and the air hose is disconnected from the tool before attempting to perform inspection or maintenance.

Maintenance of nailer

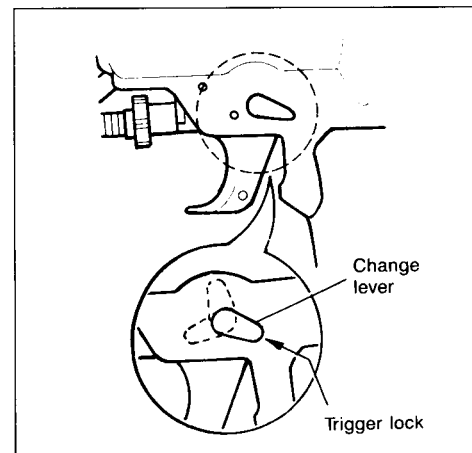
Always check the tool for its overall condition and loose screws before operation. Tighten as required.



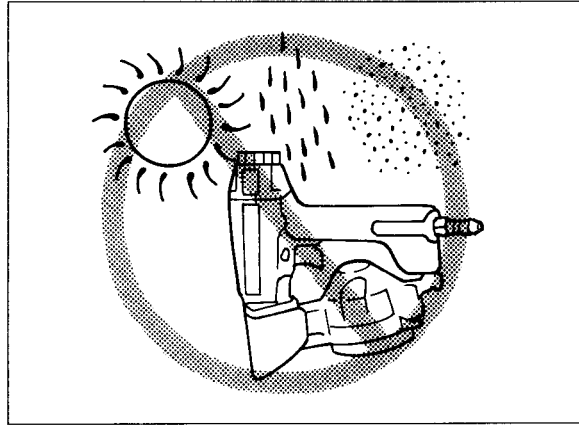
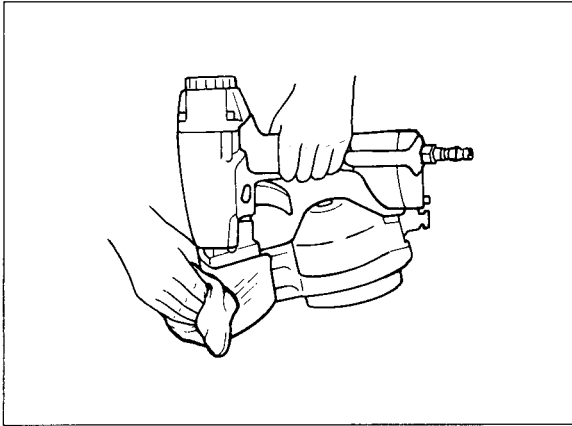
Make sure all safety systems are in working order before operation. The tool must not operate if only the trigger is pulled or if only the contact element is pressed against the wood. It must work only when both actions are performed. Test for possible faulty operation with nails unloaded.



Make sure that the trigger is locked when the change lever is set to the LOCK position.

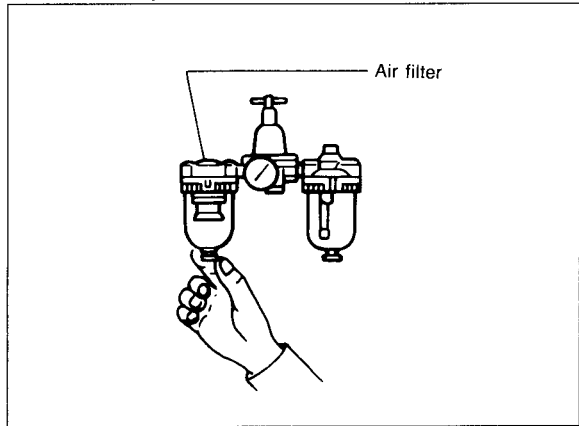
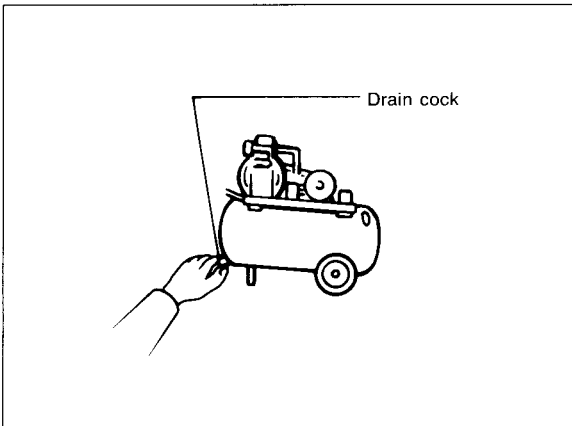


When the tool is not to be used for an extended period of time, lubricate the tool using pneumatic tool oil and store the tool in a safe place. Avoid exposure to direct sunlight and/or a humid or hot environment.

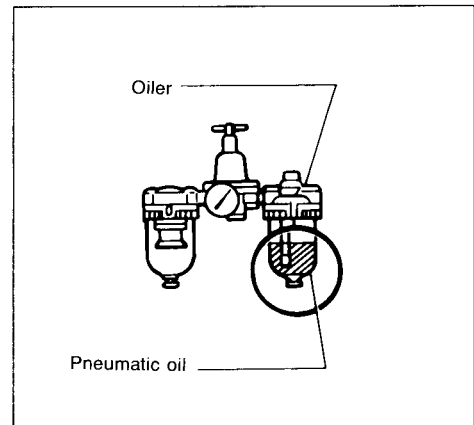


Maintenance of compressor, air set and air hose

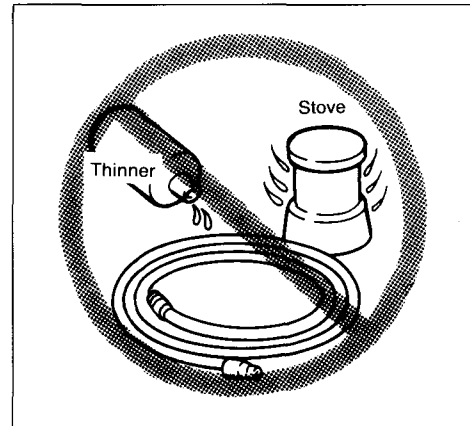
After operation, always drain the compressor tank and the air filter. If moisture is allowed to enter the tool, it may result in poor performance and possible tool failure.



Check regularly to see if there is sufficient pneumatic oil in the oiler of the air set. Failure to maintain sufficient lubrication will cause O-rings to wear quickly.



Keep the air hose away from heat (over 60°C, over 140°F), away from chemicals (thinner, strong acids or alkalis). Also, route the hose away from obstacles which it may become dangerously caught on during operation. Hoses must also be directed away from sharp edges and areas which may lead to damage or abrasion to the hose.



To maintain product SAFETY and RELIABILITY, maintenance and repairs should be performed by Makita Authorized or Factory Service Centers, always using Makita replacement parts.

MAKITA LIMITED ONE YEAR WARRANTY

Warranty Policy

Every Makita tool is thoroughly inspected and tested before leaving the factory. It is warranted to be free of defects from workmanship and materials for the period of ONE YEAR from the date of original purchase. Should any trouble develop during this one-year period, return the COMPLETE tool, freight prepaid, to one of Makita's Factory or Authorized Service Centers. If inspection shows the trouble is caused by defective workmanship or material, Makita will repair (or at our option, replace) without charge.

This Warranty does not apply where:

- repairs have been made or attempted by others;
- repairs are required because of normal wear and tear;
- The tool has been abused, misused or improperly maintained;
- alterations have been made to the tool.

IN NO EVENT SHALL MAKITA BE LIABLE FOR ANY INDIRECT, INCIDENTAL OR CONSEQUENTIAL DAMAGES FROM THE SALE OR USE OF THE PRODUCT. THIS DISCLAIMER APPLIES BOTH DURING AND AFTER THE TERM OF THIS WARRANTY.

MAKITA DISCLAIMS LIABILITY FOR ANY IMPLIED WARRANTIES, INCLUDING IMPLIED WARRANTIES OF "MERCHANTABILITY" AND "FITNESS FOR A SPECIFIC PURPOSE," AFTER THE ONE-YEAR TERM OF THIS WARRANTY.

This Warranty gives you specific legal rights, and you may also have other rights which vary from state to state. Some states do not allow the exclusion or limitation of incidental or consequential damages, so the above limitation or exclusion may not apply to you. Some states do not allow limitation on how long an implied warranty lasts, so the above limitation may not apply to you.

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