



Mini Air Compressor

Instruction Manual

22958



READ BEFORE USING

It is the owner and/or operator's responsibility to study all WARNINGS, operating, and maintenance instructions contained on the product label and instruction manual prior to operation of this tool. The owner/operator shall retain product instructions for future reference.

The owner and/or operator are responsible for maintenance, maintaining all decals or warning labels and while in use, maintaining the unit in good working order. If the owner and/or operator are not fluent in English, the product warnings and instructions shall be read and discussed with the operator's native language by the purchaser/owner or his designee. Make sure that the operator comprehends its contents. Safety information shall be emphasized and understood prior to usage. The tool shall be inspected per the operating instructions.

Users of this tool must fully understand these instructions. Each person operating this power tool must also be of sound mind and body and must not be under the influence of any substance that might impair vision, dexterity, or judgment.

Protect yourself and others by observing all safety information.

Failure to comply with instructions could result in personal injury and/or property damage!

If you encounter any problems or difficulties, please contact our customer service department at:

1-800-386-0191

NOTICE

This manual is intended for your benefit. Please read and follow the safety, maintenance and troubleshooting steps described within to ensure your safety and satisfaction. The contents of this instruction manual are based upon the latest product information available at the time of publication. The manufacturer reserves the right to make product changes at any time without notice.

SAFETY ALERT

WARNING

Read and understand this entire instruction manual before attempting to assemble, install, operate or maintain this tool. Failure to comply with the instructions may result in serious personal injury and/or property damage!

The following signal words are used to emphasize safety warnings that must be followed when using this tool:

DANGER

Indicates an imminently hazardous situation that, if not avoided, WILL result in death or serious injury.

WARNING

Indicates a potentially hazardous situation that, if not avoided, COULD result in death or serious injury.

CAUTION

Indicates a potentially hazardous situation that, if not avoided, MAY result in minor or moderate injury.

NOTICE

Indicates important information, which if not followed, MAY cause damage to equipment.

UNPACKING & INSPECTION

After opening the carton, unpack your new tool and related parts & accessories. Please inspect it carefully for any damage that may have occurred during transit. Please check it against the photograph on carton. If any parts are missing, please call customer service at: **1-800-386-0191**.

WARNING

Do not operate this tool if damaged during shipment, handling or misuse. Do not operate the tool until the parts have been replaced or the fault rectified. Failure to do so may result in serious personal injury or property damage.

All damaged parts must be repaired or replaced as needed prior to operating this tool.

Check to see that all nuts, bolts and fittings are secure before putting this tool into service. If you have any questions, or require assistance with damaged or missing parts, please contact our factory customer service department at **1-800-386-0191**

Please have the model number and date of purchase available for reference when calling.

MODEL NUMBER: **22958**

DATE of PURCHASE: _____

SAFETY WARNINGS

READ ALL SAFETY WARNINGS BEFORE USING THIS TOOL

WARNING

Some dust created by spraying, blowing, 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. Reduce your exposure to these chemicals by wearing approved safety equipment such as dust masks that are designed to filter out microscopic particles. **Avoid inhaling vapors and dust. Wash hands after using.**

WARNING

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

WORK AREA SAFETY

CAUTION

Before disassembly or removal of any part of gun or attached components, shut off air supply to gun, shut off air compressor, release pressure from spray gun by depressing trigger, and disconnect power source. NEVER assume system pressure is zero.

WARNING

TO AVOID CREATING AN EXPLOSIVE ATMOSPHERE, WORK ONLY IN WELL VENTILATED AREAS.

WARNING

ALWAYS USE A RESPIRATOR THAT MEETS OSHA/NIOSH REGULATIONS TO PREVENT INHALATION OF TOXIC MATERIAL.

1. Keep your work area clean and well lit. Clutter and dark areas invite accidents.
2. Do not operate air compressor or other power tools in explosive atmospheres, such as in the presence of flammable liquids, gases, or dust. Electric motors used in these machines create sparks which may ignite the dust or fumes.
3. Keep pets, bystanders, children, and visitors away while operating a spray gun.

IMPORTANT SAFETY RULES FOR ALL SPRAY GUNS



Read and understand all instructions. Failure to follow all instructions included with this product could result in serious personal injury and/or property damage.

Follow all local electrical and safety codes as well as in the United States, the National Electrical Codes (NEC) and the Occupational Safety and Health Act (OSHA).



The following hazards can occur during the normal use of this product:

HAZARD Risk of explosion or Fire - Flammable materials		 	
WHAT COULD HAPPEN		HOW TO PREVENT IT	
When paints or materials are sprayed, they are broken into very small particles and mixed with air. This will cause certain paints and materials to become extremely flammable and could result in serious injury or death.		Never spray closer than 25 feet to the air compressor! Motors, electrical equipment and controls can cause electrical arcs that will ignite a flammable gas or vapor. Never store flammable liquids or gases in the vicinity of the compressor. If possible, locate the air compressor in separate room. Never spray into compressor, compressor controls or the motor. Never spray near open flames or pilot lights in stoves or heaters. Never smoke or eat while spraying paint, insecticides, or other flammable substances. Provide ample ventilation when spraying indoors. To reduce the risk of static sparking, grounding continuity to the spray equipment and the object being sprayed must be maintained. When spraying and cleaning, always follow the instructions and safety precautions provided by the material manufacturer (Refer to MSDS)	
HAZARD Risk of explosion - incompatible materials			
WHAT COULD HAPPEN		HOW TO PREVENT IT	
Halogenated hydrocarbon solvents such as 1,1,1-Trichloroethane and Methylene Chloride can chemically react with the aluminum used in most spray equipment, and this gun and cup, to produce an explosion hazard and could result in serious injury or death.		Read the label or data sheet for the material you intend to spray. 1. Never use any type of spray coating material containing these solvents. 2. Never use these solvents for equipment cleaning or flushing. 3. If in doubt as to whether a material is compatible, contact your material supplier.	
HAZARD Risk of Breathing			
WHAT COULD HAPPEN		HOW TO PREVENT IT	
Some paints, coatings and solvents may cause lung damage, and burns if inhaled or allowed to come into contact with skin or eyes. Spraying of some organic solvents can cause intoxication and serious damage to health. Do not spray acids, corrosive materials, toxic chemicals, fertilizers or pesticides. Using these materials could result in death or serious injury.		Use a NIOSH approved mask or respirator and protective clothing designed for use with your specific application and spray materials. Some masks provide only limited protection against toxic materials and harmful paint solvent. Consult with a Safety Expert or Industrial Hygienist if uncertain about your equipment or materials. Use the spray gun in well-ventilated areas. Keep visitors away and NEVER allow children or pets in the work area.	

IMPORTANT SAFETY RULES FOR ALL SPRAY GUNS

HAZARD

Risk of Flying Objects



WHAT COULD HAPPEN

Certain parts are under pressure whenever the gun is connected to a pressurized air line. These parts may be propelled if the gun is disassembled.

Compressed air may propel dirt, metal shavings, etc. and possibly cause an injury and/or damage to the workpiece.

Prolonged exposure to air spray can result in permanent damage to hearing.

HOW TO PREVENT IT

Disconnect the gun from the air line, or completely depressurize the air line whenever the gun is to be disassembled.

Never point any nozzle or sprayer toward a person or part of the body.

Always wear ANSI 278.1 safety approved goggles or glasses when spraying.

Always work in a clean environment. Do not aim the spray gun at any dust of debris.

Always wear hearing protection when operating spray equipment.

HAZARD

Risk of Injection



WHAT COULD HAPPEN

Spray guns operate at pressures and velocities high enough to penetrate human and animal flesh, which could result in amputation or other serious injury.

See a physician immediately!

HOW TO PREVENT IT

Never place hands in front of nozzle.

Direct spray away from self and others.

HAZARD

Risk of Bursting



WHAT COULD HAPPEN

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.

HOW TO PREVENT IT

Do not use pressure that exceeds the operating pressure of any of the parts (hoses, fittings, etc.) in the painting system.

Keep hose away from sharp objects. Bursting air hoses may cause injury.

Examine air hoses regularly and replace if damaged.

Always use a pressure regulator on the air supply to the spray gun.

ELECTRICAL SAFETY

1. Double insulated tools are equipped with a polarized plug (one blade is wider than the other). This plug will fit in a polarized outlet only one way. If the plug does not fit fully in the outlet, reverse the plug. If it still does not fit, contact a qualified electrician to install a polarized outlet. Do not change the plug in any way. Double insulation eliminates the need for the three wire grounded power cord and grounded power supply system.

2. **Avoid body contact with grounded surfaces such as pipes, radiators, ranges and refrigerators.** There is an increased risk of electric shock if your body is grounded.

3. **Don't expose power tools to rain or wet conditions.** Water entering a power tool will increase the risk of electric shock.

4. **Do not abuse the cord. Never use the cord to carry the tool or pull the plug from an outlet. Keep cord away from heat, oil, sharp edges or moving parts.** Replace damaged cords immediately. Damaged cords increase the risk of electric shock.

5. **When operating a power tool outside, use an outdoor extension cord marked "W-A" or "W".** These cords are rated for outdoor use and reduce the risk of electric shock.

EXTENSION CORD SELECTION

Replace damaged extension cords immediately. Use of damaged extension cords can shock, burn or electrocute.

If an extension cord is used, make sure the conductor size is large enough to prevent excessive voltage drop which will cause loss of power and possible motor damage. A table of recommended extension cord sizes will be found in this section. This table is based on limiting line voltage drop to 5 volts for 115 volts at 150% of rated amperes. If an extension cord is to be used outdoors it must be marked with the suffix W-A or W following the cord type designation. For example – SJTW-A to indicate it is acceptable for outdoor use.

RECOMMENDED EXTENSION CORD SIZES FOR USE WITH PORTABLE ELECTRIC TOOLS:

Length of Cord in Feet		25 ft.	50 ft.	100 ft.	150 ft.	200 ft.	250 ft.	300 ft.	400 ft.	500 ft.
115V										
0-2A	18	18	18	16	16	16	14	14	12	12
2-3A	18	18	16	14	14	12	12	10	10	10
3-4A	18	18	16	14	12	12	10	10	8	8
4-5A	18	18	14	12	12	10	10	8	8	8
5-6A	18	16	14	12	10	10	8	8	6	6
6-8A	18	16	12	10	10	8	6	6	4	4
8-10A	16	14	10	8	8	6	6	4	4	4
10-12A	16	12	10	8	6	6	6	4	2	2
12-14A	16	12	10	8	6	6	4	4	2	2
14-16A	14	12	8	8	6	4	4	2	2	2
16-18A	14	12	8	6	6	4	4	2	2	2
18-20A	14	12	8	6	6	4	4	2	2	2

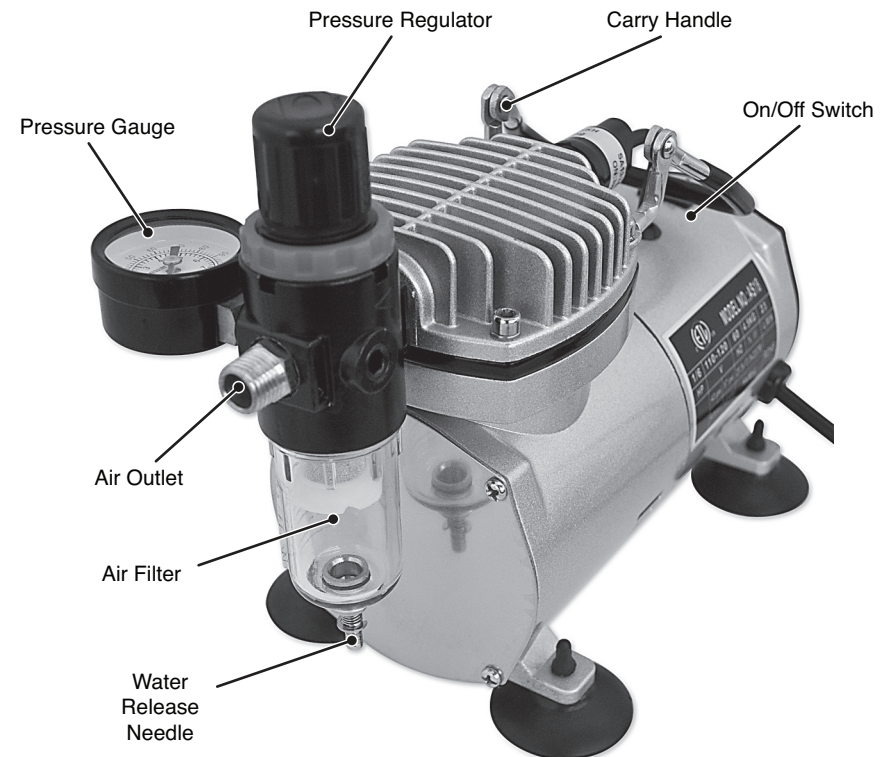
FEATURES

Air pressure regulator with filter and gauge
Piston type compressor - Oil free
Thermally protected
Low noise operation - 47db.
Auto start/stop function

SPECIFICATIONS

Type	Single Cylinder Piston Compressor
Power	1/6 HP
Speed	1450 - 1750 rpm
Air outlet	1/4" thread
Air output	20 - 23 L/min
Auto start at	43 psi (3 bar)
Auto stop at	57 psi (4 bar)
Pressure range	0 - 57 psi (0- 4 bar)
Suggested airbrush nozzle	0.2 - 1.0 mm
Net weight	7.9 lbs (3.6 kg)
Dimensions	10 x 5.3 x 6.7" (255 x 135 x 170 mm)

AIR COMPRESSOR PARTS



ASSEMBLY & SET UP

⚠ NOTICE

The air compressor is fitted with a standard 1/4" threaded air outlet which is common for airbrush applications. If you need a different fitting, consult your local hardware supplier for appropriate adapters as necessary for your application.

1. Connect one end of air hose to compressor air outlet. Do not overtighten - "finger tight" should be sufficient for most airbrush applications.
2. Connect the other end of air hose to airbrush.
3. Connect power cord to electrical outlet.
4. Turn on power switch. The compressor motor will run until maximum pressure is reached and then shut off automatically. Check for air leaks. If air leakage occurs, teflon pipe thread tape can be used to seal any leaks at air fittings.
5. To adjust the working pressure, pull the Pressure Regulator Knob up to unlock, then depress the trigger on the airbrush to start the air flow. While the compressor is running and air is flowing through the airbrush, turn the Pressure Regulator Knob clockwise to increase pressure, or counter-clockwise to decrease pressure.
6. Once desired pressure is set, push the knob down to lock.
7. Once the setup is complete, the compressor should not operate unless the airbrush trigger is depressed. Depressing the trigger will cause the Auto Start feature on the compressor to start the motor. When the trigger is released, the Auto Stop feature will turn the compressor motor off.

⚠ NOTICE

If the compressor Auto Starts frequently when not in use or if pressure decreases noticeably on the pressure gauge without the airbrush trigger being depressed, there is an air leak somewhere in the system. Seal any such leaks with pipe thread tape.

8. During normal operation, moisture will tend to accumulate in compressed air systems. The air filter (below the air regulator) is equipped with a moisture trap which incorporates a clear housing allowing any trapped moisture to be visible. Moisture must be purged periodically while working to prevent it from contaminating the air hose, possibly mixing with the paint and ruining the paint job. When moisture is visible in the clear housing, press the Moisture Release Needle upward while the compressor is running to blow it out of the trap.

CARE AND MAINTENANCE

⚠ WARNING

Always switch compressor to "OFF" and relieve any residual moisture and pressure in the system before disconnecting airbrush and air hose.

Unplug compressor from power supply when not in use.

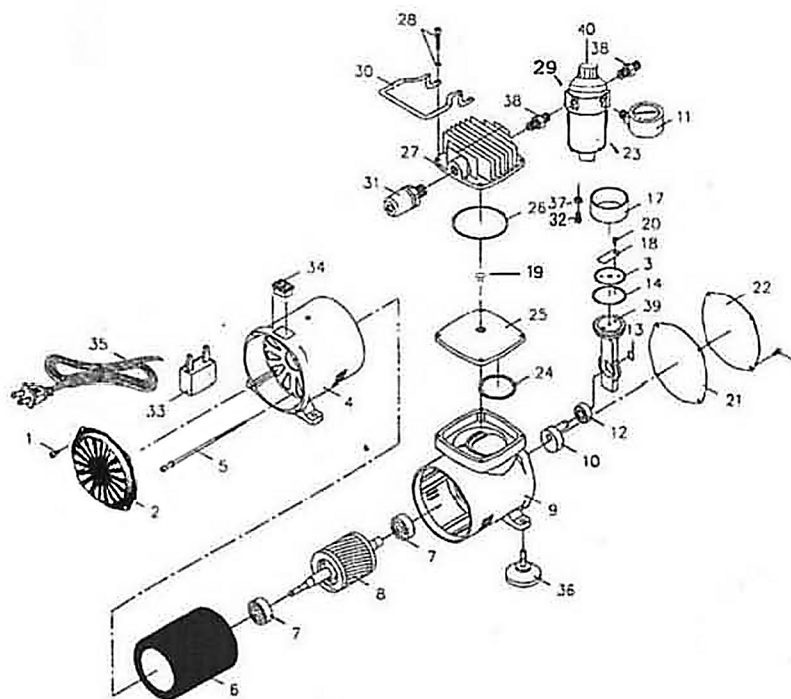
Frequently wipe compressor clean with a damp cloth and store in a dry environment free from dust or other contaminants.

With proper care and maintenance, your compressor will give you years of satisfactory performance, however, as with any mechanical device, occasional adjustments may become necessary. If any performance issues are encountered, consult the troubleshooting chart on the facing page.

TROUBLESHOOTING

Problem Encountered	Possible Cause	Corrective Action
Compressor motor does not run	No power at outlet due to tripped circuit breaker	Reset circuit breaker at panel
	Power cord damaged	Replace power cord*
	Loose electrical connections inside unit	Open rear plate and check electrical connections - Repair as necessary*
	Defective On/Off switch	Check switch and repair or replace*
Motor makes noise but does not operate correctly	Exhaust outlet clogged	Open outlet cap and clean outlet
	Cylinder valve incorrectly fitted	Reassemble cylinder valve making sure direction or rotation is correct
Motor runs but makes excessive or knocking noise	Bearing is loose or damaged	Check and replace bearing if necessary
	Loose connecting rods	Tighten screws or replace connecting rods
Insufficient paint spray or poor paint atomization	Air pressure too low	Adjust air pressure at regulator
		Seal air fittings with teflon tape
		Replace hoses or fittings as necessary
	Screws on cylinder cover are loose	Tighten screws
	Paint too thick	Dilute with thinner per manufacturer's instructions
Compressor motor runs, but produces insufficient air pressure	Valve plate is unscrewed or out of place	Open front cover and ensure correct position - Tighten screws
	Retainer ring worn from excessive use	Replace retainer ring
*WARNING: Electrical service should only be carried out by qualified electrical service personnel		

PARTS DIAGRAM



1	Screw	22	Front Cover
2	Rear Cover	23	Filter
3	Block	24	O-Ring
4	Rear Body	25	Cylinder Block
5	Screw	26	O-Ring
6	Stationary Motor	27	Cylinder Head
7	Bearing	28	Cap Screw
8	Rotary Motor	29	Filter Valve
9	Front Body	30	Handle
10	Counterweight	31	Pressure Switch
11	Pressure Gauge	32	Water Release Needle
12	Bearing	33	Condenser
13	Retainer Ring	34	Power Switch
14	Compression Ring	35	Wire
17	Cylinder	36	Rubber Pad
18	Valve Plate	37	Hex Nut
19	Valve	38	Connector
20	Screw	39	Link
21	Front Gasket	40	Pressure Regulator

90 DAY LIMITED WARRANTY

Star Asia-USA, LLC (hereinafter "seller") warrants to the original purchaser only, that this product will be free from defects in material or workmanship for a period of 90 days from date of purchase.

Warranty Performance

Warranty coverage is conditioned upon purchaser furnishing seller or its authorized service center with adequate written proof of the original purchase date. Products returned, freight prepaid and insured, to our factory or to an Authorized Service Center will be inspected and repaired or replaced, at seller's option, free of charge if found to be defective and subject to warranty. Defective parts not subject to normal wear and tear will be repaired or replaced, at our option during the above stated warranty periods. In any event, reimbursement is limited to the purchase price paid. Other than the postage and insurance requirement, no charge will be made for repairs or replacements covered by this warranty. Under no circumstances shall the manufacturer bear any responsibility for loss of the unit, loss of time or rental, inconvenience, commercial loss or consequential damages. There are no warranties which extend beyond the description of the face hereof.

Exclusions

This warranty does not cover parts damaged due to normal wear, abnormal conditions, misapplication, misuse, abuse, accidents, operation at other than recommended pressures or temperatures, improper storage or freight damage. Parts damaged or worn by operation in dusty environments are not warranted. Failure to follow recommended operating and maintenance procedures also voids warranty.

Additional items not covered under this warranty: product failure caused by rain, excessive humidity, corrosive environments or other contaminants; cosmetic defects that do not interfere with product's functionality.

This warranty shall not apply when: the product has been used for commercial or rental purposes; defects in materials or workmanship or damages result from repairs or alterations which have been made or attempted by others or the unauthorized use of nonconforming parts; this damage is due to abuse, improper maintenance, neglect or accident; or the damage is due to use of the product after partial failure or use with improper accessories.

Seller will not be liable for: labor charges, loss or damage resulting from improper operation, maintenance or repairs made by persons other than a Star Asia-USA, LLC Authorized Service Center.

The use of other than genuine Star Asia-USA, LLC Repair Parts will void warranty.

Warranty Disclaimers

NO WARRANTY, ORAL OR WRITTEN, OTHER THAN THE ABOVE WARRANTY IS MADE WITH REGARD TO THIS PRODUCT, ANY IMPLIED WARRANTIES OF SELLER REGARDING THIS PRODUCT INCLUDING BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE, ARE EXCLUDED. BUYER'S OR USER'S REMEDIES ARE SOLELY AND EXCLUSIVELY AS STATED ABOVE. STAR ASIA-USA, LLC SHALL IN NO EVENT BE LIABLE FOR INCIDENTAL, CONSEQUENTIAL, INDIRECT, OR SPECIAL DAMAGES. IN NO EVENT, WHETHER AS A RESULT OF A BREACH OF CONTRACT, WARRANTY, TORT (INCLUDING NEGLIGENCE) OR OTHERWISE, SHALL SELLER'S LIABILITY EXCEED THE PRICE OF THE PRODUCT WHICH HAS GIVEN RISE TO THE CLAIM OR LIABILITY. ANY LIABILITY CONNECTED WITH THE USE OF THIS PRODUCT SHALL TERMINATE UPON THE EXPIRATION OF THE WARRANTY PERIODS SPECIFIED ABOVE.

Limitations on Warranty Disclaimers

Any implied warranties shall be limited in duration to 90 days from the date of purchase. In some states of the U.S.A. and in some provinces of Canada there is no limitation for how long an implied warranty is valid, so the aforementioned limitation may not apply to you.

In no event shall seller be liable for any incidental or consequential damages (including but not limited to liability for loss of profits) arising from the sale or use of this product. In some states of the U.S.A. and in some provinces of Canada the exclusion or limitation of incidental or consequential damages is not allowed, so the aforementioned limitation or exclusion may not apply to you.

This limited warranty gives you specific legal rights, and you may also have other rights which vary from state to state in the U.S.A., Canada and the Commonwealth of Puerto Rico. For warranty coverage within other countries, contact your local Star Asia-USA, LLC dealer or importer.

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P.O. Box 58399, Renton, WA 98058
Consumer Service: 800-386-0191
e-mail: info@titan-us.com

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