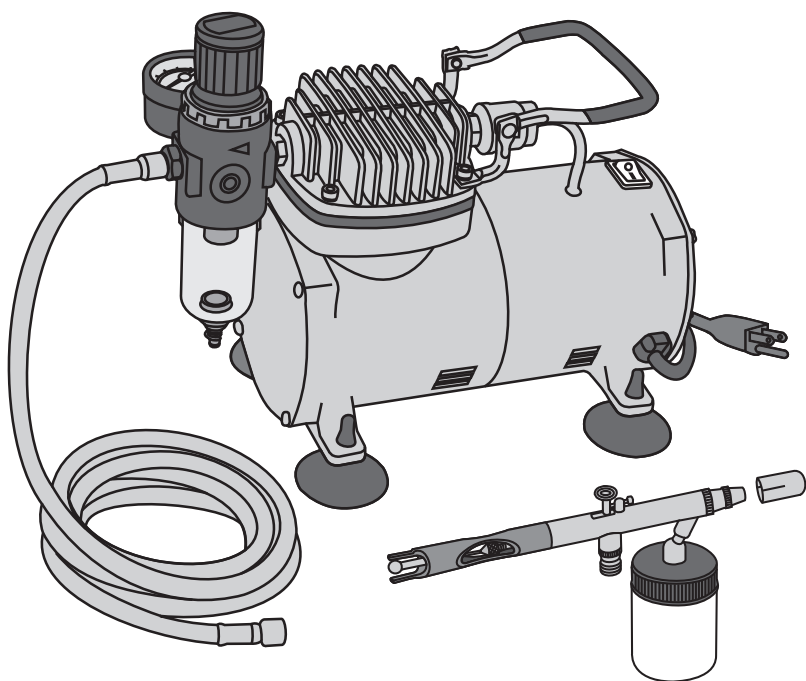


# MASTERCRAFT™/MC

## AIR BRUSH COMPRESSOR & AIR BRUSH KIT

model no. 058-1975-8



### IMPORTANT:

Please read this manual carefully before running this air brush compressor & air brush kit and save it for reference.

## INSTRUCTION MANUAL



## TABLE OF CONTENTS

Specifications	4
Safety Guidelines	5
Key Parts Diagram	9
Setup	10
Operating Instructions	11
Maintenance	17
Troubleshooting	19
Parts List	21
Warranty	24

### NOTE:

If any parts are missing or damaged, or if you have any questions, please call our toll-free helpline at 1-800-689-9928.



### SAVE THESE INSTRUCTIONS

This manual contains important safety and operating instructions.  
Read all instructions and follow them with use of this product.

**SPECIFICATIONS**

Power	120 V 60 Hz 1.1 A
Motor speed	1750 RPM
Maximum pressure (PSI)	58
Air delivery	0.7 CFM @ 40 PSI
Air outlet size	1/8"-27 NPS
Power cord	6' (1.8 m)
Thermal protection	Overload shut-off and automatic reset
Weight	7 lb 12 oz (3.5 kg)

## SAFETY GUIDELINES

### WORK AREA SAFETY WARNINGS

- **Keep work area clean and well-lighted.** Cluttered or dark areas invite accidents.
- **Do not operate the compressor in explosive atmospheres, such as in the presence of flammable liquids, gases or dust.** Compressor motors produce sparks which may ignite the dust or fumes.
- **Keep children and bystanders away from an operating compressor.**

### ELECTRICAL SAFETY WARNINGS

- **Compressor plugs must match the outlet. Never modify the plug in any way. Do not use any adaptor plugs with grounded compressors.** Standard plugs and matching outlets will reduce risk of electric shock.
- **Do not expose compressor to rain or wet conditions.** Water entering a compressor will increase the risk of electric shock.
- **Do not abuse the cord. Never use the cord for unplugging the compressor. Keep cord away from heat, oil, sharp edges or moving parts.** Damaged or entangled cords increase the risk of electric shock.

### PERSONAL SAFETY WARNINGS

- **Stay alert, watch what you are doing and use common sense when operating this compressor. Do not use this compressor while you are tired or under the influence of drugs, alcohol or medication.** A moment of inattention while operating a compressor may result in serious personal injury.
- **Use personal protective equipment.** Always wear ANSI-approved eye protection during setup and use.
- **Prevent unintentional starting.** Ensure the switch is in the off position before connecting to power source or moving the compressor.



#### WARNING!

Read all safety warnings and instructions. Failure to follow the warnings and instructions may result in electric shock, fire and/or serious injury. Save all warnings and instructions for future reference.

#### CAUTION!

The warnings, precautions, and instructions discussed in this instruction manual cannot cover all possible conditions and situations that may occur. It must be understood by the operator that common sense and caution are factors that cannot be built into this product, but must be supplied by the operator.

## AIR BRUSH COMPRESSOR AND AIR BRUSH SAFETY WARNINGS

- **Risk of fire or explosion** — do not spray flammable liquid in a confined area or towards a hot surface. Spray area must be well-ventilated. Do not smoke while spraying or spray where spark or flame is present. Keep compressor at least 20' (6 m) away from explosive vapours.
- **Risk of bursting** — do not adjust regulator higher than marked maximum pressure of attachment.
- **Risk of injury** — do not direct air stream at people or animals.
- **Do not use to supply breathing air.**
- **Do not leave compressor unattended for an extended period while plugged in.** Unplug compressor after working.
- **Keep compressor well-ventilated.** Do not cover compressor during use.
- Do not remove the valve cover or adjust internal components.
- **Compressor head gets hot during operation.** Do not touch it or allow children nearby during or immediately following operation.
- Do not use the air hose to move the compressor.
- The use of accessories or attachments not recommended by the manufacturer may result in a risk of injury to persons.
- All air line components, including hoses, pipe, connectors, filters, etc., must be rated for a minimum working pressure of 58 PSI, or 150% of the maximum system pressure, whichever is greater.
- **Maintain labels and nameplates on the compressor.** These carry important safety information. If unreadable or missing, contact the customer service for a replacement.
- **People with pacemakers should consult their physician(s) before use.** Electromagnetic fields in close proximity to a heart pacemaker could cause pacemaker interference or pacemaker failure.
- The brass components of this product contain lead, a chemical known to cause birth defects or other reproductive harm.
- **This air brush compressor will automatically shut off on overload or under excessive heat.** Should this occur, turn the power switch to "Off" position. Wait until the compressor cools. Then, turn the power switch to "On" position to resume work.
- **Spray paint only.** Never use this unit with gasoline, kerosene, or any other flammable solvent.
- Follow all precautions on spray materials from the material manufacturer.
- A NIOSH-approved respirator and proper ventilation are needed during use.
- **Always use the air brush at a safe distance from other people in the work area.**
- **Do not aim the air brush at any dust or debris to avoid any damage to workpiece.**
- **Never aim or spray at yourself or anyone else to avoid possible serious injury.**

- **During cleaning and flushing, solvents can be forcefully expelled from liquid and air passages which could cause eye injury.** Be sure that all others in the area are wearing impact-resistant eye and face protection. Even small objects can injure eyes and cause blindness.
- **Paints and solvents may be harmful or fatal if swallowed or inhaled.** Avoid prolonged skin contact with solvents or paints as they will irritate skin. After any contact, immediately wash off exposed area with hot, soapy water.

## GROUNDING INSTRUCTIONS

**IN THE EVENT OF A MALFUNCTION OR BREAKDOWN**, grounding provides a path of least resistance for electric current to reduce the risk of electric shock. This compressor is equipped with an electric cord having an equipment-grounding conductor and a grounding plug. The plug **must** be plugged into a matching outlet that is properly installed and grounded in accordance with **all** local codes and ordinances.

**DO NOT MODIFY THE PLUG PROVIDED** — if it will not fit the outlet, have the proper outlet installed by a qualified electrician.

**IMPROPER CONNECTION** of the equipment-grounding conductor can result in a risk of electric shock. The conductor with insulation having an outer surface that is green with or without yellow stripes is the equipment-grounding conductor. If repair or replacement of the electric cord or plug is necessary, do not connect the equipment-grounding conductor to a live terminal.

**CHECK** with a qualified electrician or service personnel if the grounding instructions are not completely understood, or if in doubt as to whether the compressor is properly grounded.

**USE ONLY 3-WIRE EXTENSION CORDS** that have 3-prong grounding plugs and 3-pole receptacles that accept the compressor's plug.

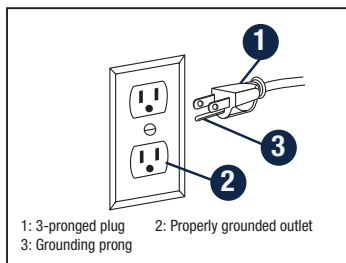
Repair or replace damaged or worn cord immediately.

This compressor is intended for use on a circuit that has an outlet that looks like the one illustrated above.

The compressor has a grounding plug that looks like the plug illustrated above.

The outlet must be properly installed and grounded in accordance with all codes and ordinances.

Do not use an adaptor to connect this compressor to a different outlet.



## WARNING!

**TO PREVENT ELECTRIC SHOCK AND DEATH FROM INCORRECT GROUNDING WIRE CONNECTION:**

Check with a qualified electrician if you are in doubt as to whether the outlet is properly grounded.

Do not modify the power cord plug provided with the compressor.

Never remove the grounding prong from the plug. Do not use the compressor if the power cord or plug is damaged. If damaged, have it repaired by a service facility before use. If the plug will not fit the outlet, have a proper outlet installed by a qualified electrician.



## GUIDELINES FOR USING EXTENSION CORDS

Verify that the extension cord is in good condition. When using an extension cord, be sure to use one that is heavy enough to carry the current that the tool will draw. An undersized cord will cause a drop in line voltage, which will result in loss of power and overheating. The table below shows the correct size to use according to cord length and the amperage rating on the tool's nameplate. When in doubt, use the next heavier gauge. The smaller the gauge number, the heavier the cord.

Amperage rating of the tool (120 V circuit only)		Total length of the extension cord			
		25' (7.6 m)	50' (15.2 m)	100' (30.4 m)	150' (45.7 m)
More than	Not more than	Minimum gauge for the extension cord (AWG)			
0	6	18	16	16	14
6	10	18	16	Do not use	
10	12	16	16	Do not use	
12	16	14	12	Do not use	

Verify that the extension cord is properly wired and in good condition. Always replace a damaged extension cord, or have it repaired by a qualified electrician before using it. Keep extension cords away from sharp objects, excessive heat, and damp or wet areas.

## COMPRESSOR USE AND CARE SAFETY WARNINGS

- Do not use the compressor if the switch does not turn it on and off. Any compressor that cannot be controlled with the switch is dangerous and must be repaired.
- Disconnect the plug from the power source before making any adjustments, changing accessories, or storing the compressor. Such preventive safety measures reduce the risk of starting the compressor accidentally.
- Store an idle compressor out of the reach of children and do not allow persons unfamiliar with the compressor or these instructions to operate it. A compressor is dangerous in the hands of untrained users.
- Maintain the compressor. Keep the compressor clean for better and safer performance. Keep dry, clean and free from oil and grease. Check for misalignment or binding of moving parts, breakage of parts and any other condition that may affect the compressor's operation. If damaged, have the compressor repaired before use. Many accidents are caused by a poorly maintained compressor.
- Use the compressor in accordance with these instructions, taking into account the working conditions and the work to be performed. Use of the compressor for operations different from those intended could result in a hazardous situation.

## SERVICE SAFETY WARNINGS

- Have your compressor serviced by a qualified repair person using only identical replacement parts. This will ensure that the safety of the compressor is maintained.

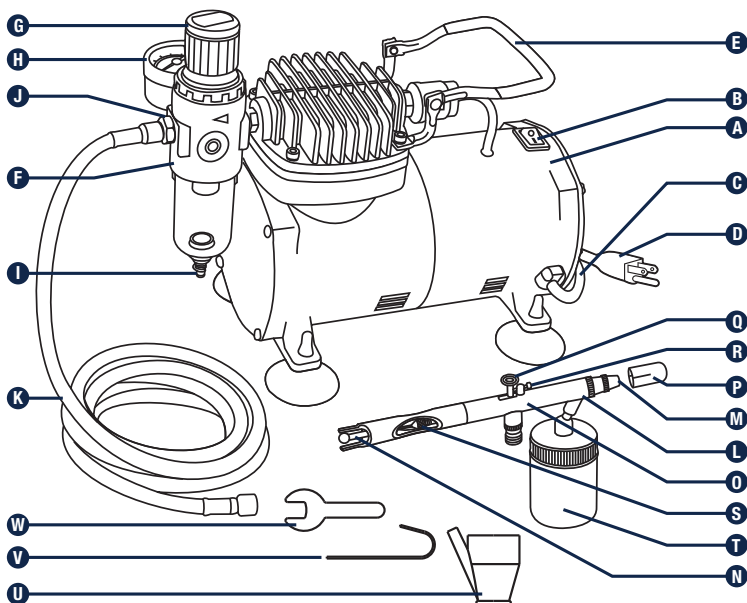


### WARNING!

This tool must be grounded while in use in order to protect the operator from electric shock.

### KEY PARTS DIAGRAM

No.	Description	No.	Description
A	Air brush compressor	M	Air brush nozzle
B	Power switch	N	Fluid needle
C	Power cord	O	Air brush housing
D	Power cord plug	P	Protective cover
E	Handle	Q	Finger lever
F	Air filter and regulator	R	Adjustment screw
G	Adjust knob	S	Needle chucking nut
H	Pressure gauge	T	Glass jar (22 cc / 3/4 oz)
I	Water drain valve	U	Metal cup (5 cc)
J	Air outlet	V	Metal hook
K	Air hose (6' / 1.8 m)	W	Wrench (7 mm)
L	Air brush		

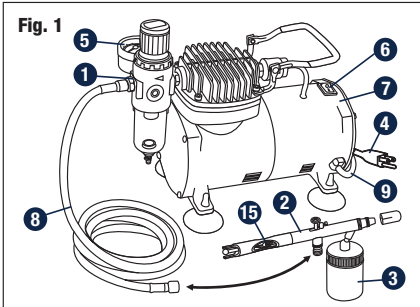


### WARNING!

If any part is missing or damaged, do not use the product until the missing or damaged part has been replaced.

**SETUP OF AIR BRUSH COMPRESSOR AND AIR BRUSH (Fig. 1)**

1. Connect one end of the air hose (8) to the air outlet (1).
2. Connect the other end of the air hose to the air brush (2).
3. Connect the empty glass jar (3) to the air brush.
4. Insert the power cord plug (4) into the nearest 120 V, grounded, electrical outlet.
5. The compressor is set to the desired air pressure maximum 58 PSI when it leaves the factory.



6. Turn on the power switch (6) and inspect the air connections for leaks.
7. Turn off and unplug the air brush compressor (7), then repair any leaks found.

**IMPORTANT:** Make sure the air brush needle chucking nut (15) is screwed tight before use.

**SETUP OF COMPRESSOR AREA**

1. Designate a work area that is clean and well-lighted. The work area must not allow access by children or pets to prevent injury.
2. Locate the air brush compressor (7) on a flat, level surface to ensure proper pump lubrication and to prevent damage to the unit. Keep at least 12" (30.5 cm) of space around the unit to allow air circulation.
3. Route the power cord (9) from the compressor to the grounded wall outlet, along a safe path without creating a tripping hazard or exposing the power cord to possible damage.

**WARNING!**

- Read the entire important safety information at the above section of "SAFETY GUIDELINES" before set-up or use of this product.
- To prevent serious injury from accidental operation, turn the power switch (B) "Off" and unplug the air brush compressor (A) from its electrical outlet before assembling or making any adjustments to the compressor.
- Before operating, make sure the air brush compressor is set up in a well-ventilated area, on a flat, level, solid surface well away from any flammable objects, such as drapes. Never paint in an area without proper ventilation, or near possible ignition sources.



### OPERATING INSTRUCTIONS (Fig. 2, 3)

1. Insert the compressor power cord plug **(4)** into the nearest 120 V grounded, electrical outlet.
2. The compressor is set to the desired air pressure maximum 58 PSI when it leaves the factory. The working pressure of air brush can be read on the pressure gauge **(5)** during operation.
3. The user can slightly adjust the actual working pressure through the pressure regulator. Method of regulating pressure: Pull up the adjust knob **(20)** and turn left and right to adjust the pressure. After setting, press down the knob **(20)** to lock the pressure.
4. Fill the 22 cc glass jar **(3)** after thinning and straining your paint properly.

**IMPORTANT:** Most jar paints are too thick to spray and need thinning. Proportions of thinner needed may vary with different manufacturers. Use the following chart only as a guide for thinning spray materials:

1 part water to 1 part watercolour/ink

7 parts water to 1 part acrylic

2 parts lacquer thinner to 1 part lacquer

4. Hold the air brush housing **(10)** lightly in your hand and push the tapered fitting on the lid of the 22 cc glass jar assembly into the base of the air brush housing. It is held in place with friction and is not threaded.

**IMPORTANT:** It is suggested that you first fully insert the fluid connector on the glass jar lid to the fluid intake of the air brush and then turn approximately 1/5 of a full rotation. This will secure a tight connection between the glass jar and the air brush.

5. Turn on the power switch **(6)**.
6. Pull off the protective cover **(11)**. Press the finger lever **(13)** downward to begin air flow. Draw back slowly/gently on the finger lever until you achieve the air volume you need for your spray technique.
7. Continue to adjust the spray volume by using the finger lever, moving it front to back. When you have the correct spray volume, you may fix the position using the adjustment screw **(12)**.
8. The spray pattern size is based on the distance between the work surface and the air brush nozzle **(14)**. For extra-fine spray, hold the air brush nearer the work surface.
9. When you have finished painting, gently release pressure on finger lever (first loosening the adjustment screw, if needed).

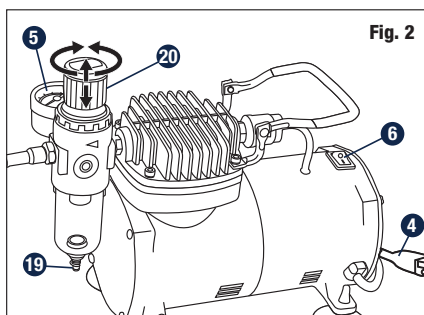
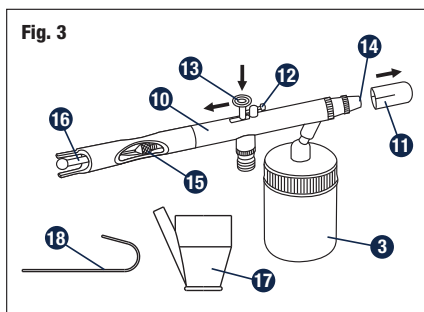


Fig. 3



**IMPORTANT:** If fluid blocks the nozzle while working, try loosening the needle chucking nut **(15)** then move the fluid needle **(16)** back and forth, allowing the blocked fluid to escape and clearing the nozzle.

10. After flushing the air brush unit completely with the proper solvent, spray any remaining solvent through the nozzle until clear solvent sprays from the end of the air brush tips.

**IMPORTANT:** All paints used with this air brush are fast drying by design and can damage your tool if they are not flushed immediately.

**IMPORTANT:** The pressure for atomization is controlled by the regulator on the air brush compressor. The amount of fluid is adjusted by the finger lever pull length, the paint viscosity, and the air pressure.

**IMPORTANT:** To avoid cross-threading, all air brush parts should be screwed in hand tight initially. If the parts cannot easily be turned by hand, be sure that you have the correct parts, unscrew, realign, and try again. Never use excessive force in matching parts.

**IMPORTANT:** The 5 cc metal cup (17) has two uses. It is used for excess thinned paint, and also for solvent when it is time to clean the air brush.

**IMPORTANT:** The metal hook (18) can be attached to a solid surface and used to hang the air brush when it is not being used.

**IMPORTANT:** Use this air brush compressor only with air brushes; do not use this compressor with any other type of equipment.

11. When finished using and cleaning the air compressor, turn its power switch off. Release any remaining air in a safe fashion and disconnect the air brush. Briefly depress the water drain valve (19) to empty the unit of water after each use.

12. Store the air compressor in a clean, dry, safe location out of reach of children and other unauthorized people.

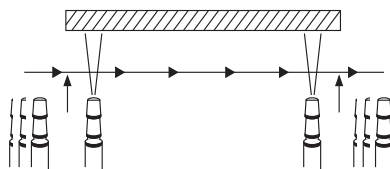
## PAINTING PROCEDURE

Be sure that the workpiece is clean and free of dust, grease, etc. Mask off any area not to be painted. Hang or place small pieces (such as models) on a pedestal or stand so all paintable areas are easily accessible (a stand may be built from an ordinary wire coat hanger, or bottle, etc.).

Hold the air brush nozzle about 6" (15 cm) from the workpiece. Use short strokes, moving the air brush at a steady rate, parallel to the work surface. (Fig. 4)

To achieve full coverage, first apply a light coat, then let paint dry and apply another coat. Repeat until desired coverage is achieved. Do not try for complete coverage with one pass.

Fig. 4



## WARNING!

Before spraying, make sure that the needle chucking nut (15) is hand tightened firmly around the fluid needle. Never hand loosen the needle chucking nut during the operation, which will result in no material flow at your next spray.

## CAUTION!

- This air brush features a dual action finger lever. Press the finger lever (13) downward ONLY to begin air flow for air dusting on work surface if needed, then draw back slowly/gently on the finger lever till fluid comes out of the nozzle.
- Do not pull the finger lever straight back. Both actions are required for proper operation of the air brush.

### TRIGGERING EXERCISES

**IMPORTANT:** Use cardboard or newspaper to perform triggering exercises.

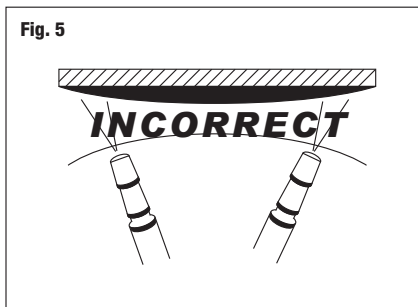
#### Exercise 1 — Spraying

A steady, constant motion produces the best results. Start motion before pressing the trigger, follow through with motion after releasing the trigger as shown in **Fig. 4**.

Be sure to keep the air brush parallel to the work surface when painting. If the air brush motion is moved in an arc or the motion is unsteady, the paint finish will be uneven.

(**Fig. 5**)

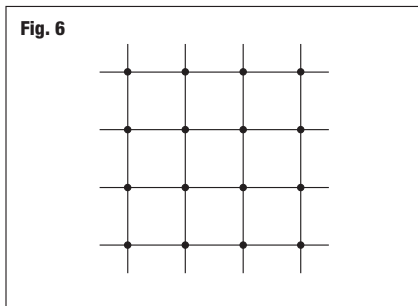
**Fig. 5**



#### Exercise 2 — Position and Density Control

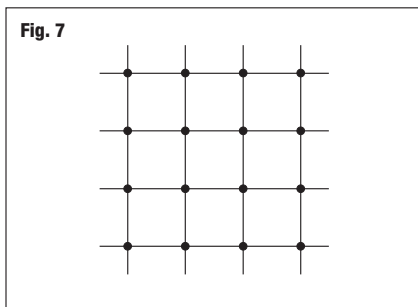
1. Lightly pencil a grid of 1/2" (1.25 cm) squares on a piece of paper.
2. Use diluted India ink or water-soluble materials for this exercise. Hold the air brush approximately 1/2" (1.25 cm) away from paper and spray small dots on the intersecting lines. (**Fig. 6**)

**Fig. 6**



3. After placement is accurately achieved, enlarge dot size by allowing more material to flow through the air brush and by increasing the distance between the air brush and the paper. (**Fig. 7**)

**Fig. 7**



4. Do not hold the air brush too close to the paper or hold the finger lever all the way back and down. This action will cause “puddles” to form and spread. **(Fig. 8, 9)**

Fig. 8

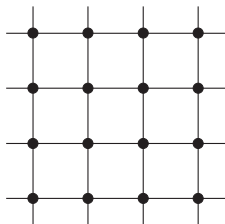
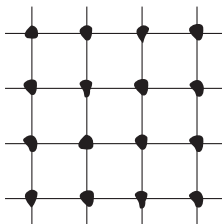


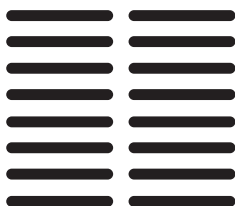
Fig. 9



### Exercise 3 — Freehand (Straight Lines)

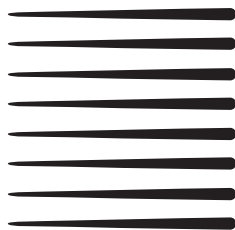
- Distance from work surface controls line width. Holding the air brush close to the work surface produces a thin line. Holding the air brush further away from the work surface produces a thicker line. Practice controlling distance from the work surface until consistent lines are sprayed. **(Fig. 10)**

Fig. 10



- Release more material and lift the air brush away from the work surface to spray parallel lines graduating from narrow to broad. **(Fig. 11)**

Fig. 11

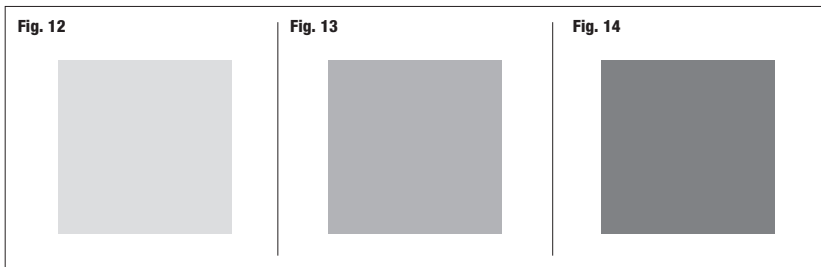


### Exercise 4 — Even Tones

**IMPORTANT:** Use masking tape to mask off several square areas on a piece of paper for Exercises 4 and 5. Be sure not to spray over or under the edge of the mask.

1. Hold the air brush approximately 4" (10 cm) from the work surface. Using triggering technique practiced in Exercise 1, air brush a light coat of material at the top of masked area.
2. Allow some spray to cover part of masking tape so no unpainted area shows when tape is removed.
3. Overlap the air brush strokes (from right to left) to create a consistent coat of material.
4. Do not create a line pattern with the air brush and avoid overspray.
5. Re-spray the entire area until an even tone is achieved.

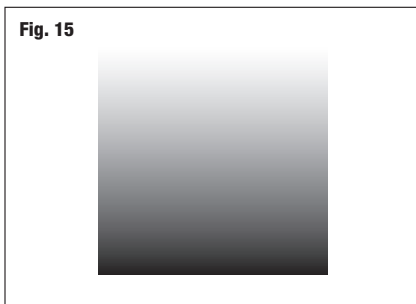
**IMPORTANT:** Do not attempt to cover entire paper with a heavy coat all at once. Build the tone gradually. (**Fig. 12, 13, 14**)



6. Allow work surface to dry before removing mask.
7. Carefully remove mask to avoid tearing work surface.

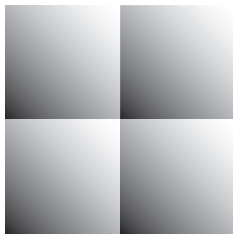
### Exercise 5 — Varying shades

- 1a. Start spraying at the bottom of a masked area and gradually fade into the white at the top. Do not fade abruptly. (**Fig. 15**)
- 1b. Spray tone no further than 2/3 or 3/4 of the way up the page.
- 1c. Stop spraying the tone shorter with each passage since overspray will build.



2. Fig. 16 is a combination of masking and varying shades. This spraying exercise trains the eye to make sure that each square has the same tone value. Repeat the spraying method described in steps 1a – 1c to achieve the same tone value. **(Fig. 16)**

**Fig. 16**



3. Fig. 17 is an exercise in a technique known as spotlighting. Begin spraying in centre of spot and fade to one corner. Repeat three times, fading to a different corner each time. Ensure spray area is adequately masked to contain overspray. **(Fig. 17)**

**Fig. 17**



## MAINTENANCE

### AIR BRUSH COMPRESSOR

1. **Before each use**, inspect the general condition of the air brush compressor. Check for loose hardware, misalignment or binding of moving parts, cracked or broken parts, damaged electrical wiring, and any other condition that may affect its safe operation.
2. **After use**, push the water drain valve under the filter cup (G) to drain out the moisture. Also, wipe external surfaces of the compressor with a clean cloth.
3. **After every 500 hours of regular use**, replace compression ring and inlet and outlet valves.

**IMPORTANT:** This work should only be done by a qualified service technician.

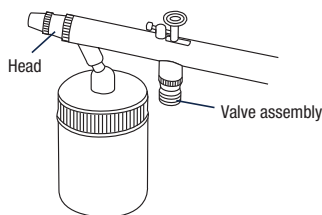
4. Store the air brush compressor in a clean, dry, safe location out of reach of children and other unauthorized people.

### AIR BRUSH

**IMPORTANT:** Always clean your air brush immediately after use. Do not leave spray material in glass jar for a long period of time. Dried spray material can cause damage to the internal paint channels of the air brush.

1. Remove material from the glass jar.
2. Wash inside of the glass jar using a bristle brush dipped in the proper solvent or clear water.
3. Fill the glass jar with the proper solvent or clear water and spray until clear.
4. Remove valve assembly by turning counter-clockwise by hand. **(Fig. 18)**
5. Remove head by turning counter-clockwise with an adjustable wrench (not provided). **(Fig. 18)**

**Fig. 18**



**IMPORTANT:** Prevent O-ring damage by removing valve assembly and head before soaking air brush in solvent.



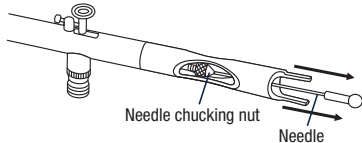
### WARNING!

- Procedures not specifically explained in this manual must be performed only by a qualified technician.
- To prevent serious injury from compressor failure, do not use damaged equipment. If abnormal noise or vibration occurs, have the problem corrected before further use.
- To prevent serious injury from accidental operation, turn the power switch off and unplug the compressor from its electrical outlet before performing any inspection, maintenance, or cleaning procedures.
- If the supply cord of this compressor is damaged, it must be replaced only by a qualified service technician.



**NEEDLE REMOVAL AND CLEANING (Fig. 19)**

1. Hand loosen the needle chucking nut by turning counter-clockwise.
2. Carefully pull the needle out of the air brush.
3. Clean needle with proper solvent or clear water.
4. Place needle flat on a worktable.
5. Run a pencil eraser the entire length of the needle while rolling needle slowly.
6. Remove all eraser particles by running needle between thumb and forefinger.
7. Do not bend needle. A bent needle will prevent proper air brush use.

**Fig. 19****NEEDLE INSTALLATION**

**IMPORTANT:** Install the head before re-inserting the needle into the air brush.

1. Use caution when re-installing needle. Do not jam needle back into the head.
2. Hand tighten the adjustment screw firmly so the needle does not move. If the needle is not tightened enough, you will not be able to shut off material flow.

**STORING**

1. When not using the air brush, it must be well cleaned and lightly lubricated.
2. Store the air brush in a dry and safe place out of reach of children.

**CAUTION!**

Maintain the air brush with care. Keep the air brush clean and oiled for best and safest performance.

## TROUBLESHOOTING

### AIR BRUSH COMPRESSOR

Problem	Possible Causes	Likely Solutions
The motor does not work.	<ol style="list-style-type: none"> <li>1. No electrical power.</li> <li>2. Damaged power cord.</li> <li>3. Electrical wiring within the unit is defective.</li> <li>4. Power switch is defective.</li> </ol>	<ol style="list-style-type: none"> <li>1. Plug the power cord into a working, 120V~, grounded, electrical outlet.</li> <li>2. Have a qualified service technician replace the power cord.</li> <li>3. Have a qualified service technician replace electric wiring.</li> <li>4. Have a qualified service technician replace power switch.</li> </ol>
The motor runs, but it makes irregular noises or a knocking noise.	<ol style="list-style-type: none"> <li>1. Bearing is loose or damaged.</li> <li>2. Screws in the connection rod are loose.</li> </ol>	<ol style="list-style-type: none"> <li>1. Have a qualified service technician replace the bearing.</li> <li>2. Tighten the screws, or replace them if necessary.</li> </ol>
Not enough pressure when painting or spraying.	<ol style="list-style-type: none"> <li>1. Loose air connection(s).</li> <li>2. Air hose is damaged.</li> <li>3. Screws on cylinder cover are loose.</li> </ol>	<ol style="list-style-type: none"> <li>1. Check all air connections, and tighten them if necessary</li> <li>2. Replace air hose.</li> <li>3. Tighten screws.</li> </ol>
Motor runs properly, but no air pressure or lack of air delivery.	<ol style="list-style-type: none"> <li>1. Valve plate is loose or out of place.</li> <li>2. Retainer ring is damaged after excessive use at high pressure.</li> </ol>	<ol style="list-style-type: none"> <li>1. Open the front cover and make sure the valve plate is in the proper position. Tighten the screws if necessary.</li> <li>2. Have a qualified service technician replace the retainer ring.</li> </ol>

## AIR BRUSH

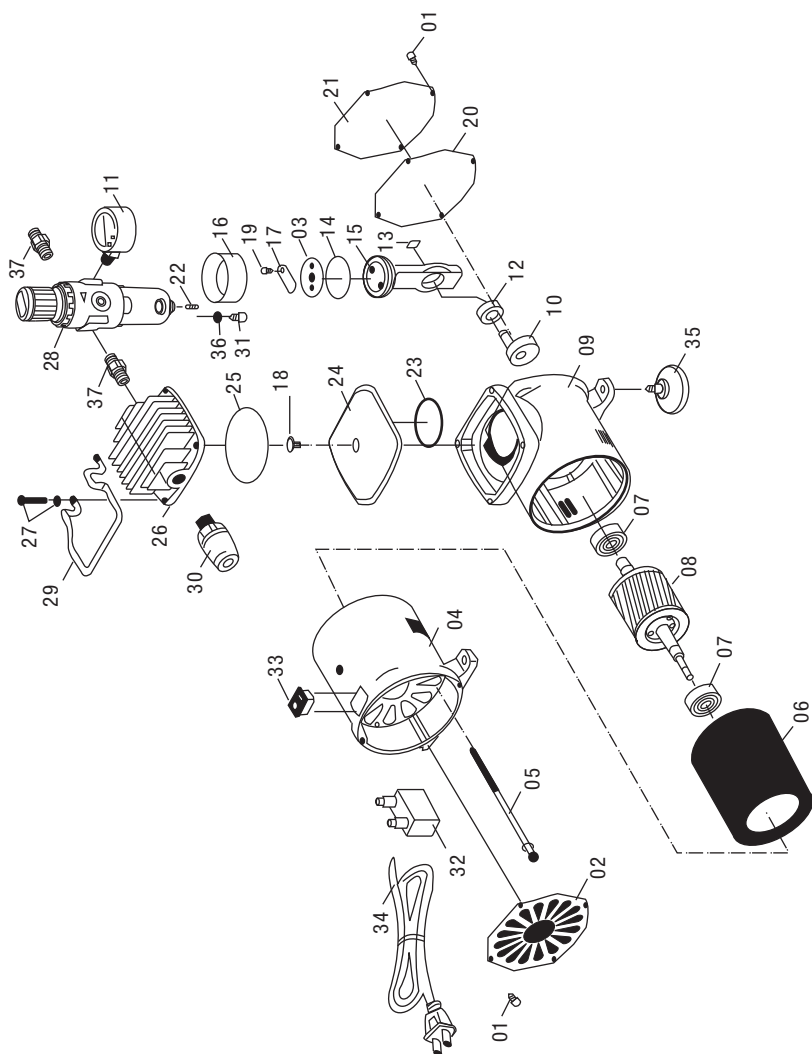
Problem	Possible Causes	Likely Solutions
Will not spray.	<ol style="list-style-type: none"> <li>1. Misuse of finger lever.</li> <li>2. Needle chucking nut gets loose.</li> <li>3. Nozzle and/or air passage blocked.</li> <li>4. No air pressure at the air brush.</li> <li>5. Air pressure too low.</li> <li>6. Material too heavy.</li> </ol>	<ol style="list-style-type: none"> <li>1. First press finger lever downward and then draw back on the finger slowly/gently till fluid comes out of the nozzle.</li> <li>2. Make sure that the needle chucking nut is hand tightened firmly around the fluid needle.</li> <li>3. Clean.</li> <li>4. Check air supply and air line.</li> <li>5. Increase air pressure.</li> <li>6. Thin material properly.</li> </ol>
Grain spray.	Material too thick.	<ol style="list-style-type: none"> <li>1. Add water or proper solvent sparingly to material.</li> <li>2. Check needle and tip for dried material.</li> <li>3. Adjust air supply; then test for proper spray.</li> </ol>
Buckling paper.	Material too thin.	<ol style="list-style-type: none"> <li>1. Add material to thicken mixture.</li> <li>2. Air brush less heavily in one area.</li> <li>3. Move air brush rapidly or lessen amount of spray.</li> </ol>
Spray pattern appears to have flared ends.	Turning wrist while spraying.	Always move arm parallel to work surface to avoid flared ends.
Spray pattern looks like a centipede.	Spraying too much material too close to paper.	<ol style="list-style-type: none"> <li>1. Lightly pull back on finger lever.</li> <li>2. Hold brush further away from work surface.</li> </ol>
Splattering.	Allowing needle to snap back into tip.	<ol style="list-style-type: none"> <li>1. Release lever gently.</li> <li>2. Check needle and tip for dried paint.</li> </ol>
Curved spray pattern.	Arcing arm too close to work surface.	Always move arm parallel to work surface.
Spitting material.	<ol style="list-style-type: none"> <li>1. Residue on needle or in glass jar.</li> <li>2. Material too thick.</li> </ol>	<ol style="list-style-type: none"> <li>1. Clean needle or glass jar with proper solvent or clear water.</li> <li>2. Thin material with proper solvent or clear water.</li> </ol>

**WARNING!**

Follow all safety precautions whenever diagnosing or servicing the air brush. Disconnect air supply before service.

AIR BRUSH COMPRESSOR

PARTS LIST



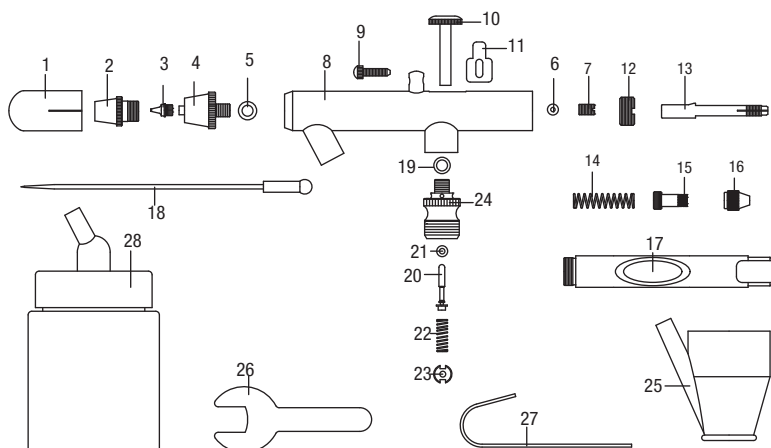
AIR BRUSH COMPRESSOR

No.	Description	Qty.	No.	Description	Qty.
1	Screw	8	20	Front gasket	1
2	Rear cover	1	21	Front cover	1
3	Block	1	22	Water drain valve	1
4	Rear body	1	23	O-ring	1
5	Screw	4	24	Cylinder block	1
6	Stationary motor	1	25	O-ring	1
7	Bearing	2	26	Cylinder head	1
8	Rotary motor	1	27	Cap screw	4
9	Front body	1	28	Filter valve	1
10	Counterweight	1	29	Handle	1
11	Manometer	1	30	Pressure switch	1
12	Bearing	1	31	Pressure regulator	1
13	Retainer ring	1	32	Condenser	1
14	Compression ring	1	33	Power switch	1
15	Filter	1	34	Wire	1
16	Cylinder	1	35	Rubber pad	4
17	Valve plate	1	36	Locknut	1
18	Valve	1	37	Air outlet	2
19	Screw	1			

NOTE:

The manufacturer and/or distributor has provided the parts list and assembly diagram in this manual as a reference tool only. Neither the manufacturer nor distributor makes any representation or warranty of any kind to the buyer that he or she is qualified to make any repairs to the product, or that he or she is qualified to replace any parts of the product. In fact, the manufacturer and/or distributor expressly states that all repairs and parts replacements should be undertaken by certified and licensed technicians, and not by the buyer. The buyer assumes all risk and liability arising out of his or her repairs to the original product or replacement parts thereto, or arising out of his or her installation of replacement parts thereto.

## AIR BRUSH



No.	Description	Qty.	No.	Description	Qty.
1	Protective cap	1	15	Spring case	1
2	Air cap	1	16	Needle chucking nut	1
3	Nozzle	1	17	Handle	1
4	Air cap body	1	18	Needle	1
5	O-ring	1	19	O-ring	1
6	Packing	1	20	Valve rod	1
7	Packing nut	1	21	O-ring	1
8	Housing	1	22	Spring	1
9	Adjustment screw	1	23	Valve screw	1
10	Finger lever	1	24	Valve body	1
11	Rocker	1	25	Cup 5 cc	1
12	Stopper	1	26	Wrench 7 mm	1
13	Needle chucking guide	1	27	Air brush holder	1
14	Spring	1	28	Glass jar assembly 22 cc	1

### 3-Year Limited Warranty

This Mastercraft® product is guaranteed for a period of three (3) years from the date of original retail purchase against defects in workmanship and materials, except for the following component:

Component A: Accessories, which are guaranteed for a period of one (1) year from the date of original retail purchase against defects in workmanship and materials.

Subject to the conditions and limitations described below, this product, if returned to us with proof of purchase within the stated warranty period and if covered under this warranty, will be repaired or replaced (with the same model, or one of equal value or specification), at our option. We will bear the cost of any repair or replacement and any costs of labour relating thereto.

#### **These warranties are subject to the following conditions and limitations:**

- a) a bill of sale verifying the purchase and purchase date must be provided;
- b) this warranty will not apply to any product or part thereof which is worn or broken or which has become inoperative due to abuse, misuse, accidental damage, neglect or lack of proper installation, operation or maintenance (as outlined in the applicable owner's manual or operating instructions) or which is being used for industrial, professional, commercial or rental purposes;
- c) this warranty will not apply to normal wear and tear or to expendable parts or accessories that may be supplied with the product which are expected to become inoperative or unusable after a reasonable period of use;
- d) this warranty will not apply to routine maintenance and consumable items such as, but not limited to, fuel, lubricants, vacuum bags, blades, belts, sandpaper, bits, fluids, tune-ups or adjustments;
- e) this warranty will not apply where damage is caused by repairs made or attempted by others (i.e., persons not authorized by the manufacturer);
- f) this warranty will not apply to any product that was sold to the original purchaser as a reconditioned or refurbished product (unless otherwise specified in writing);
- g) this warranty will not apply to any product or part thereof if any part from another manufacturer is installed therein or any repairs or alterations have been made or attempted by unauthorized persons;
- h) this warranty will not apply to normal deterioration of the exterior finish, such as, but not limited to, scratches, dents, paint chips, or to any corrosion or discolouring by heat, abrasive and chemical cleaners; and
- i) this warranty will not apply to component parts sold by and identified as the product of another company, which shall be covered under the product manufacturer's warranty, if any.

## Additional Limitations

This warranty applies only to the original purchaser and may not be transferred. Neither the retailer nor the manufacturer shall be liable for any other expense, loss or damage, including, without limitation, any indirect, incidental, consequential or exemplary damages arising in connection with the sale, use or inability to use this product.

## Notice to Consumer

This warranty gives you specific legal rights, and you may have other rights, which may vary from province to province. The provisions contained in this warranty are not intended to limit, modify, take away from, disclaim or exclude any statutory warranties set forth in any applicable provincial or federal legislation.

This product is not meant for industrial or commercial purposes. This product is for household projects; read manual carefully.

Made in China

Imported for

Mastercraft Canada Toronto, Canada M4S 2B8