

BADGER

MODEL 200™

BOTTOM FEED, SINGLE ACTION
INTERNAL MIX

INSTRUCTION
BOOK

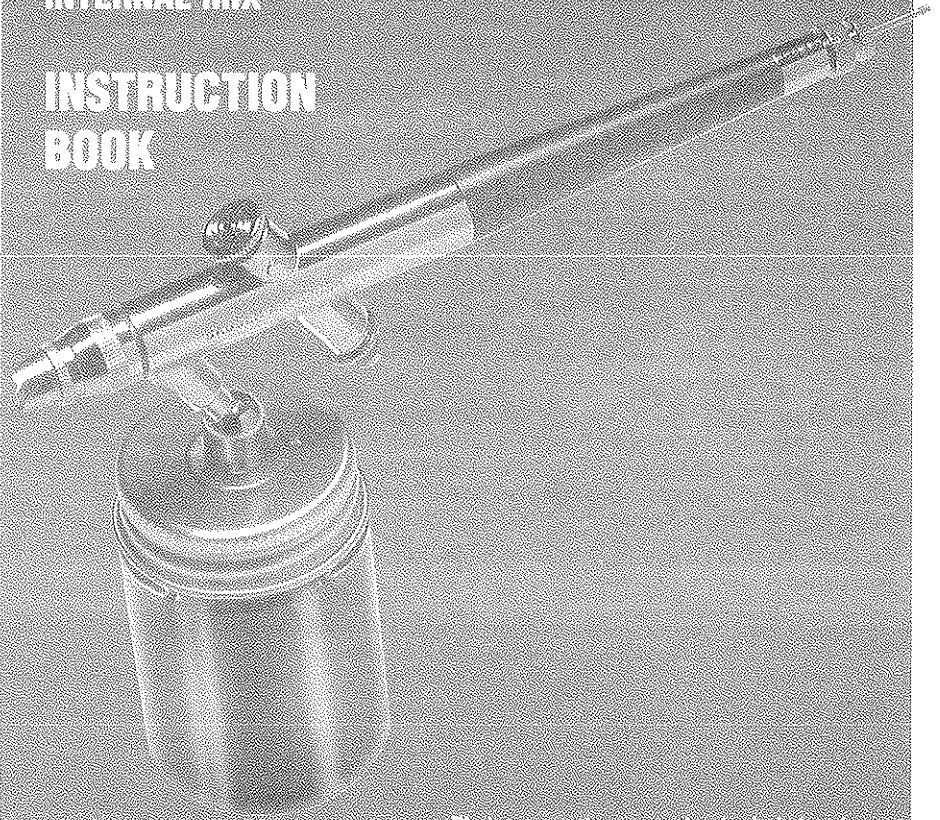
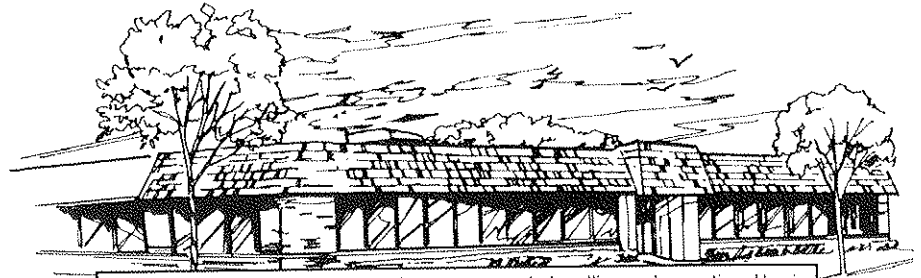


Photo may not represent actual air brush.

AIR-BRUSH



SPECIAL NOTE: Read instructions for proper care in handling and operation. Use in well ventilated area. Always read and follow instructions, cautions, and warnings on materials being sprayed. See back page for further information.

At BADGER AIR-BRUSH CO. we are extremely proud of our people and our products. Our continued growth and success is based upon high quality and conscientious craftsmanship in the manufacture of each and every BADGER product. At BADGER AIR-BRUSH CO. there is a feeling of accomplished pride and dedication to *you*, the BADGER air brush user, that bonds the entire BADGER family, and goes into the design, development, and manufacture of every air brush we make.

Each air brush and all of its components are carefully machined, inspected, assembled by hand, and **test-ed in actual use to be certain it meets BADGER'S and your high standards of quality.** Then, and only then, the BADGER name is put on it.

This dedication to excellence and commitment to your satisfaction prompts us to stand behind all of our products and offer the following warranty.

WARRANTY

Your BADGER air brush is warranted against all manufacturing defects of material and/or factory workmanship origin for a period of one year. Any part or material that becomes defective or is worn so as to not be usable within one year of purchase will be **repaired or replaced** at our discretion and expense. **Your BADGER air brush has a lifetime warranty for any necessary factory labor** (After the first year, the only cost of factory repair will be the cost of shipping to the factory and repair related parts). These warranties do not cover damage caused by negligence, accidents, misuse, or units that have been abused or altered in any way. The Teflon needle bearing has a lifetime warranty and if ever necessary will be replaced at the factory without cost, except for to the factory shipment cost, to the air brush owner.

CONGRATULATIONS on your purchase of the Model 200, a superior quality-precision crafted air brush designed, engineered, and manufactured by BADGER AIR-BRUSH CO. The Model 200 has a single-size paint tip, spray regulator, and needle that work with any properly reduced medium, including acrylics, gouache, inks & dyes, enamels, lacquers, stains, etc. The Model 200 works especially well with BADGER Air-Opaque™, Air-TeX™, and MODELflex™ paints.

The Model 200 bottom feed is an ideal tool for artists, high school students, hobbyists, van painters, taxi-dermists, etc.

READ INSTRUCTIONS CAREFULLY BEFORE OPERATING

TO OPERATE

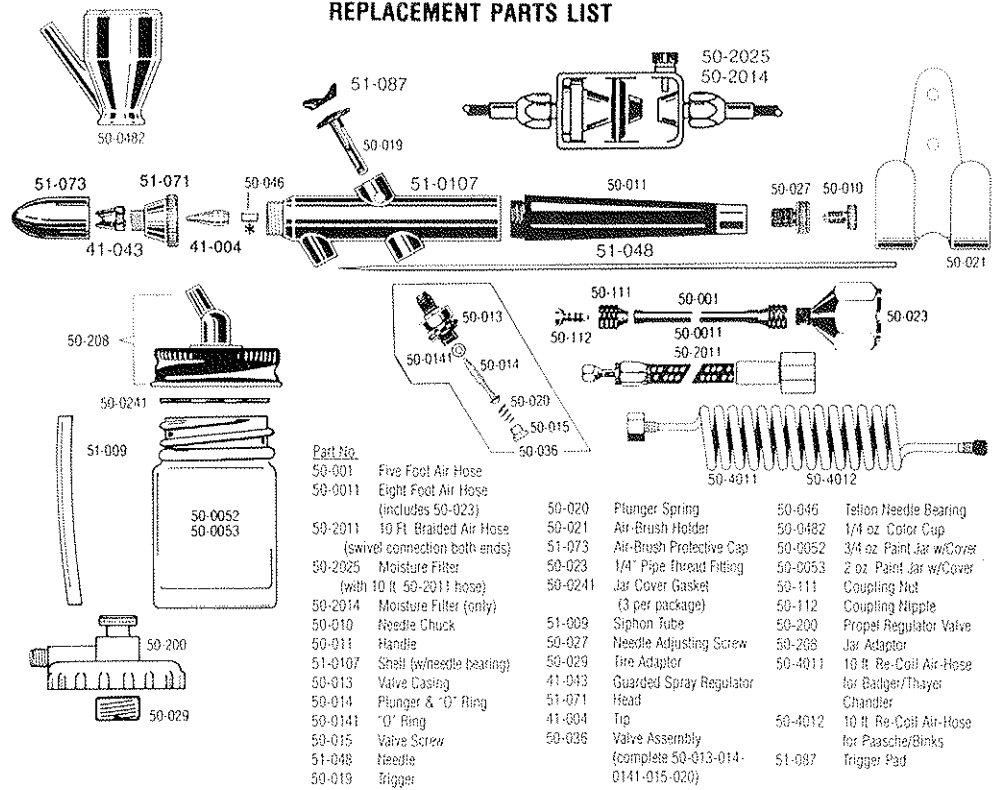
1) Attach hose to air-supply (CO₂ tank, compressor or aerosol propellant can), then holding air hose in hand, attach air-brush to air-hose by gently turning in clockwise motion on to fitting. Tighten air-hose snugly into place with wrench provided in set.

2) When air is regulated, pressure should be between 15 to 50 p.s.i. Normal operating pressure is 30 p.s.i. We recommend a pressure gauge (No. 50-054) and/or water trap (No. 50-051) in

conjunction with compressor where humidity is a problem. A compressor or CO₂ tank is more practical for larger jobs and prolonged spraying.

3) To attach jar or color cup, insert stem from jar into hole located in bottom of air-brush near head. Insert the stem into the air-brush and give a ¼ counter clockwise turn. This will lock your jar (bottle) or color cup assembly in place. To remove, pull down and rotate jar (or cup) assembly counter clockwise again.

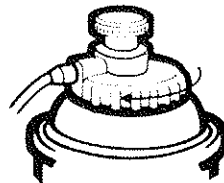
REPLACEMENT PARTS LIST



Part No.	Description	Part No.	Description	Part No.	Description
50-001	Five Foot Air Hose	50-020	Plunger Spring	50-046	Teflon Needle Bearing
50-011	Eight Foot Air Hose (includes 50-023)	50-021	Air Brush Holder	50-0482	1/4 oz. Color Cup
50-2011	10 Ft. Braided Air Hose (swivel connection both ends)	51-073	Air Brush Protective Cap	50-0052	3/4 oz. Paint Jar w/Cover
50-2025	Moisture Filter (with 10 ft. 50-2011 hose)	50-023	1/4" Pipe Thread Fitting	50-0053	2 oz. Paint Jar w/Cover
50-2014	Moisture Filter (only)	50-0241	Jar Cover Gasket (3 per package)	50-111	Coupling Nut
50-010	Needle Chuck	51-009	Siphon Tube	50-112	Coupling Nipple
50-011	Handle	50-027	Needle Adjusting Screw	50-200	Propel Regulator Valve Jar Adapter
51-0107	Shell (w/needle bearing)	50-029	Tire Adapter	50-4011	13 Ft. Re-Coil Air-Hose for Badger/Thayer Chandler
50-013	Valve Casing	41-043	Guarded Spray Regulator Head	51-071	Tip
50-014	Plunger & "O" Ring	51-071	Head	50-012	10 Ft. Re-Coil Air-Hose for Paasche/Binks
50-0141	"O" Ring	50-036	Valve Assembly (complete 50-013-014-0141-015-020)	51-087	Trigger Pad
50-015	Valve Screw				
51-048	Needle				
50-019	Trigger				

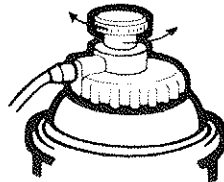
* The Teflon® Needle Bearing Carries a Lifetime Warranty and Free Replacement at the Factory only

READ INSTRUCTIONS CAREFULLY



TO ATTACH

1. Attach air-regulator to air-hose.
2. Attach air-regulator to propel can.
3. Attach other end of air-hose to air-brush by turning in a clockwise motion on a locking.

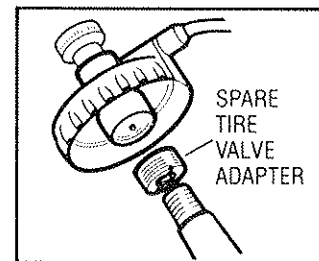


TO TURN ON AIR

1. Turn adjusting screw clockwise to desired pressure.
2. For less pressure or to turn off, turn adjusting screw in counter-clockwise direction.

The air-regulator valve is designed for propellant cans. It will adjust pressure from 15 to 50 PSI. For larger jobs and prolonged spraying a compressor or CO₂ tank is recommended.

When air is regulated, pressure should be between 15 to 50 PSI. Normal operating pressure is 30 PSI.

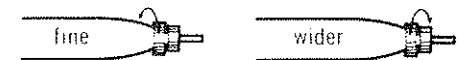


SPARE TIRE VALVE ADAPTER

A spare tire from the family car can be used as a power source in place of a can of propellant. Simply inflate tire (must be on a rim) to 40 lbs. of air. Adapter screws are sold through dealers.

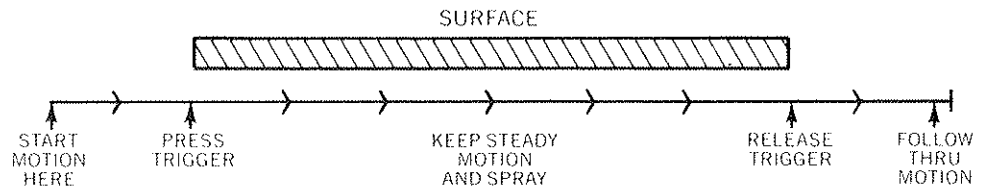
TO ADJUST PAINT FLOW

Paint flow controlled by moving needle adjusting screw forward for fine spray, back for wider spray. NOTE: NEEDLE IS PRE SET.



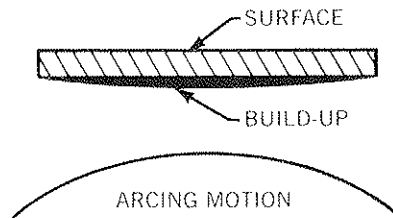
LEARN TO TRIGGER

Best results are achieved by a good constant motion. Start motion before pressing trigger, follow through motion after releasing trigger.



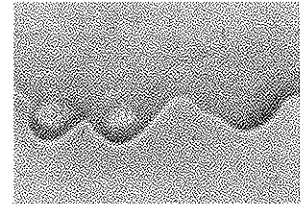
DON'T ARC

If air-brush motion is uneven, paint finish will be uneven.



THE MOST COMMON PROBLEM

Runs and sags are caused by one or more of the following errors.



1. "Freezing" or forgetting to release trigger at the end of the stroke.
2. Holding air-brush still or moving too slowly.
3. Holding air-brush too close to surface.

MAINTENANCE AND CLEANING OF YOUR AIR-BRUSH

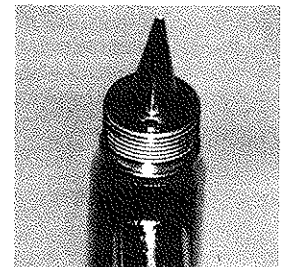
Careful maintenance of your air-brush is essential if it is to continue to work effectively. One of the most important factors that affect the performance of the air-brush is cleanliness. The small passages inside the air-brush can become blocked easily by dried paint if the air-brush is not cleaned after each use. If there is still a useable amount of color in the color cup or reservoir when you have finished spraying, pour the remainder back into the original paint bottle. Operate the air-brush, spraying on a scrap piece of paper until the color is gone and only air is sprayed. Spray with clean water, Air-Opaque™ Cleaner or an appropriate solvent until the spray is colorless. Always clean the air-brush every time you finish spraying. Some types of paints can dry remarkably fast. If the paint is allowed to dry inside the air-brush you may be able to dissolve it with clean water. Cleaning with a solvent is the next step. If cleaning with solvent does not dissolve the blockage, you will have to disassemble the air-brush.

REMOVING AND REPLACING THE TIP

When replacing the paint tip (41-004), it is important to loosen the needle chuck (50-010) and partially retract the needle (51-048). This will ensure that no damage will occur to the tip or needle as the head assembly is tightened.

Unscrew the Spray Regulator (41-043) and the Head (51-071). The tip can now be removed from its tapered seat in the air brush body. Make sure there is no dried paint on any part of the air brush head or body that would interfere with proper tip seating. Even a small amount of dried paint can cause tip misalignment, which could lead to uneven or pulsating spray pattern. Dried paint can be removed using a moist cotton swab.

Place the new tip into its seat in the air brush body (see photograph 1), and then screw the head and spray regulator onto the air brush body. The head assembly on the Model 200 is designed to be tightened firmly by hand-use of pliers or other tools should not be necessary!



Before spraying, reseal the needle into the new tip by pushing the needle forward until it stops. Do not push forcefully or the tip could split at the end. The Needle Chuck should then be re-tightened.

CLEANING OF YOUR AIR-BRUSH

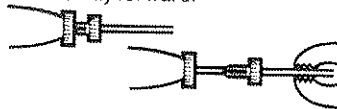
To clean the air-brush, take a clean color cup or jar full of cleaner. Insert it into the air-brush, spray some cleaner through the air-brush at broad and small patterns. After removing color cup or jar, turn brush upside down and press trigger. This will remove any material still in the brush.

Another method of cleaning the air-brush is back flushing. Take a soft cloth and cover the spray regulator—depress and pull back on the trigger. This will cause a bubbling in the color cup or jar. Take away the cloth and spray and repeat this procedure several times. After this is done you should remove the needle for cleaning.

Spray regulator should be cleaned using a soft bristle brush. Insert into the cavity of the spray regulator and rotate until the paint is removed.

If the needle is stuck in the air-brush, carefully loosen the needle chuck, then grasp the end of the needle with a pair of pliers and twist in a counter-clockwise direction to release the needle. Inspect for hardened paint, which causes the needle to bind. If there is a residual stain on the needle, it can be polished off using a pink eraser. Hold the needle flat on a worktable. Run the pink eraser the full length of the needle, turn the needle slowly by rolling it towards yourself and repeat the process. Be careful not to bend the tip. Remove all eraser particles by running the needle between your thumb and forefinger.

To replace a bent needle, set needle adjusting screw all the way forward.



Loosen needle chuck and slide out needle.



Insert new needle. Slide it forward with slight pressure from index finger until the needle stops. Do not push forward with great pressure, as the needle may split the delicate paint tip and also damage the needle point. To lock the needle in

place tighten needle chuck into needle adjusting screw. Turn needle adjusting screw to desired spray pattern.

A bent needle will prevent you from air-brushing a fine line and will cause an erratic direction of spray. A bent tip does not always have to be discarded. Place the needle on a firm surface at the angle of the tip. Straighten the bent tip by running your fingernail across it on the tabletop while you turn the needle slowly. Run your fingernail from the body of the needle outward towards the tip.

You can custom mix any color combination you wish. REMEMBER: Paints must be compatible ... that is, mix enamels with enamels, lacquers, etc. Mix thoroughly. Make sure paint is free of lumps...strain if necessary. To help prevent your air-brush from clogging, Badger offers a Fluid Filter (50-2016 sold separately). The filter slides on and off the siphon tube for quick and easy cleaning.

THINNING

Most jar paints are too heavy to spray. Enamels should be thinned approximately 1 part paint to 1 part thinner, and lacquers approximately 1 part paint to 1 part thinner. To thin automotive lacquers, consult the spraying directions on the side of the paint container.

WHEN USING LACQUER

Lacquer dries very quickly. For best results the operation should be continuous, that is, the air-brush should not be set down for more than a few moments before resuming spray. Keep an extra paint jar of thinner handy. . . remove lacquer jar, attach jar of thinner and spray to clean out any lacquer that may dry in air-brush. Also refer to cleaning instructions for additional information.

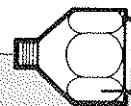
TO SPRAY

After mixing and thinning paint, fill paint jar about 2/3 full (or less). Attach jar of paint to air-brush, turn air on and press trigger. Test your spray on old newspaper or other material, make any necessary spray adjustments, and get the "feel" of your air-brush. **(Be sure that paint or fumes cannot reach any flame. Also make sure that there is adequate ventilation).**

MANUFACTURERS NOTE

For larger jobs and prolonged spraying, a compressor or CO₂ tank is recommended. A 1/4" pipe thread fitting (50-023 sold separately) is needed to adapt air-hose to air-supply. When using a non tank mounted diaphragm compressor, a small bleeder hole must be drilled in adaptor to prevent back pressure. Drill hole on flat surface just behind the taper, using a number 72 or 1/32" drill. If you should change to a tank mounted compressor, the hole on the adapter must be sealed. Masking or duct tape (not included) may be used or a small drop of solder.

1/4" PIPE
ADAPTOR

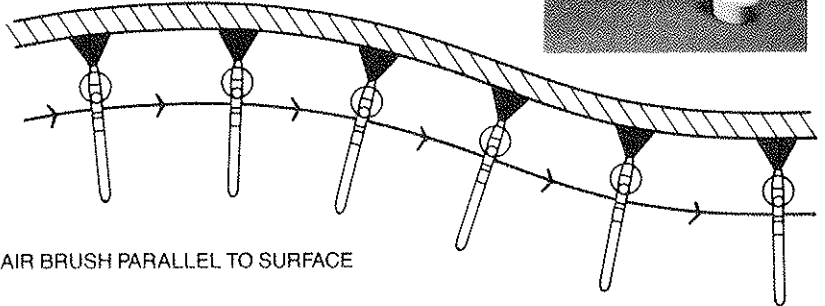
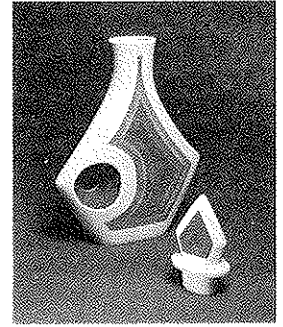


NO. 72 OR
1/32" DRILL

PAINTING PROCEDURE FOR THREE DIMENSIONAL OBJECTS

Prepare the object to be painted, masking off any area that should not be painted (be sure object is clean and free of dust, grease, etc.). Small objects such as models, etc. should be hung or placed on a pedestal so all areas to be sprayed can be easily reached (a stand may be fashioned from an ordinary wire coat hanger or bottle etc.). Hold the tip of the air-brush about 6 inches from the surface. Use short strokes, moving the air-brush constantly at a steady rate parallel to the surface. Don't spray too heavily.

Apply a light coat, let dry, then apply another coat and continue until the desired coverage is achieved.



EXERCISE ONE / FREE HAND CONTROLLED EFFECT

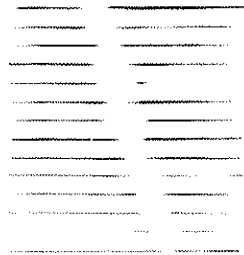


FIG. 1

This exercise shown in fig. 1, will enable you to draw straight lines without forming dots or puddles at the beginning and end of each line. This is triggering again, see page 3. Fig. 2 is parallel line graduating from narrow to broad. These are made by releasing more color and at the same time, lifting the air-brush away from the surface. Practice daily to develop trigger

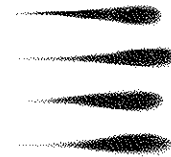


FIG. 2

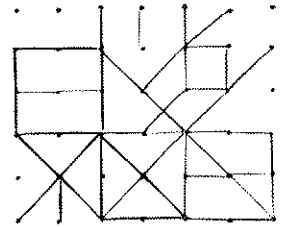


FIG. 3

action control. Fig. 3, layout in pencil $\frac{1}{2}$ inch squares. Air-brush the dots as small as possible and connect dots with straight lines of even tone. Practice every lesson carefully before proceeding to the next one.

EXERCISE TWO

On a board or paper, lightly pencil in a number of $\frac{1}{2}$ inch squares. Hold the air-brush about $\frac{1}{2}$ inch from the surface and spray paint small dots on the intersecting lines, as shown in fig. 4. Use liquid food coloring. When you are able to place

the dots accurately, begin enlarging the size of the dots (fig. 5) by allowing more color to flow through the air-brush. At the same time increase the distance between the air-brush and the

paper or board. If the air-brush is held too closely to the paper, "puddles" will form and spread (as in figs. 6 and 7). Aim for accuracy not speed and continue practicing until you can spray paint any size dot exactly where you want

it. This simple lesson will give you control of position and density of dots or shapes you require, which are important for touch-ups and fill-in work.

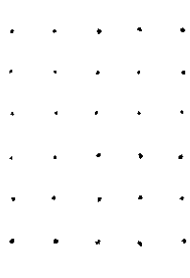


FIG. 4

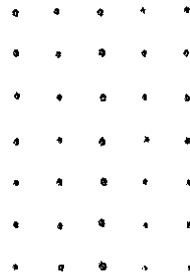


FIG. 5

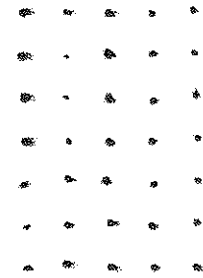


FIG. 6

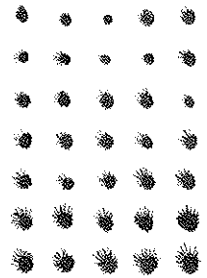


FIG. 7

MASKING OFF

In the next several exercises you will need to mask off a square area. From the drawing, (fig. 8) make a mask from 4 pieces of scrap paper. These masks are held in place by scotch or masking tape, keeping the atomized material from creeping into the margins around the area. When using masks do not spray under the edge. Spray over the edge.

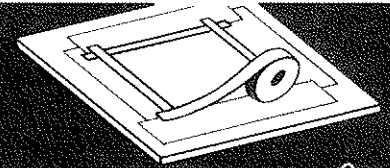


FIG. 8



EXERCISE THREE/EVEN TONES

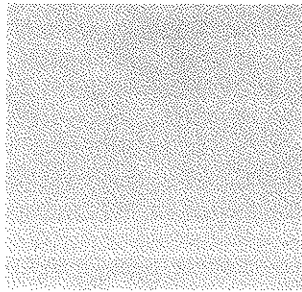


FIG. 9

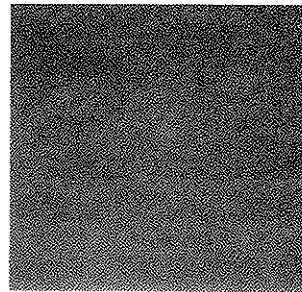


FIG. 10



FIG. 11

To accomplish a flat tone, we will air-brush a fine consistency of paint from left to right at the top of the taped area. Hold the air-brush about four inches from the surface of the sheet. Be sure to spray a portion of the tape so that no light line shows when the masking tape is removed. Use the trigger technique on page 3 throughout this lesson. Now air-brush from right to left, overlapping the previously air-brushed strokes. Continue down the entire sheet, trying not to create a line pattern with the air-brush. Overspray the tape,

both right and left and top and bottom. Begin at the top again and do the entire page. Repeat the exercise until you reach the desired smooth coverage of the entire area. Do not attempt to cover the entire sheet with a heavy tone at one time. Build the tone gradually (figs. 9-11). Make sure the work and tape are dry before removing the masking tape. This should be done carefully to avoid tearing the surface of the paper it is adhered to. If your first results are not satisfactory, repeat the lesson until you are satisfied.

EXERCISE FOUR/VARYING SHADES

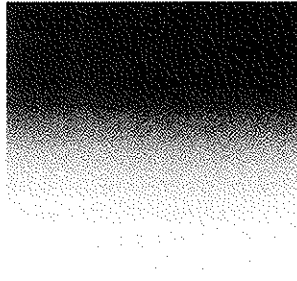


FIG. 12

This lesson is similar to the previous one (fig. 12). This time you will start at the top and gradually fade into white. Do not fade abruptly and do not carry the tone further than $\frac{2}{3}$ or $\frac{3}{4}$ of the page. Remember you must stop your tone shorter

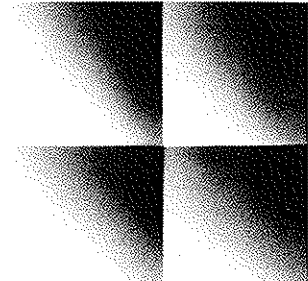


FIG. 13

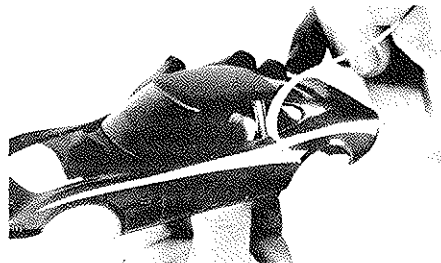
each time, since the overspray will build up. Fig. 13 is a combination of masking and varying shades. The important thing in this exercise is to train your eye so that all the small squares have the same tone value.

TECHNIQUES TO USE

Masking or frisket is used mostly when more than one color is applied. A new frisket is cut for each color and covers any area that should not be sprayed. Badger's Foto/Frisket Film is specially formulated for use on all surfaces commonly used for air-brushing.

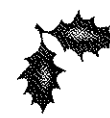
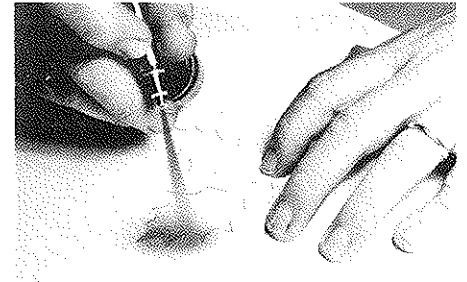


A flat surface mask can be cut from Foto/Frisket Film. For a sharp edge, hold the mask flat in position. For a softer edge, elevate the mask slightly by resting on a ruler or other flat object.



For contour masking (models, ceramics, etc.) use masking tape, scotch tape or Foto/Frisket Film and cut to desired shape. Make sure the edges are pressed firmly against surface to prevent underspray.

STENCILS



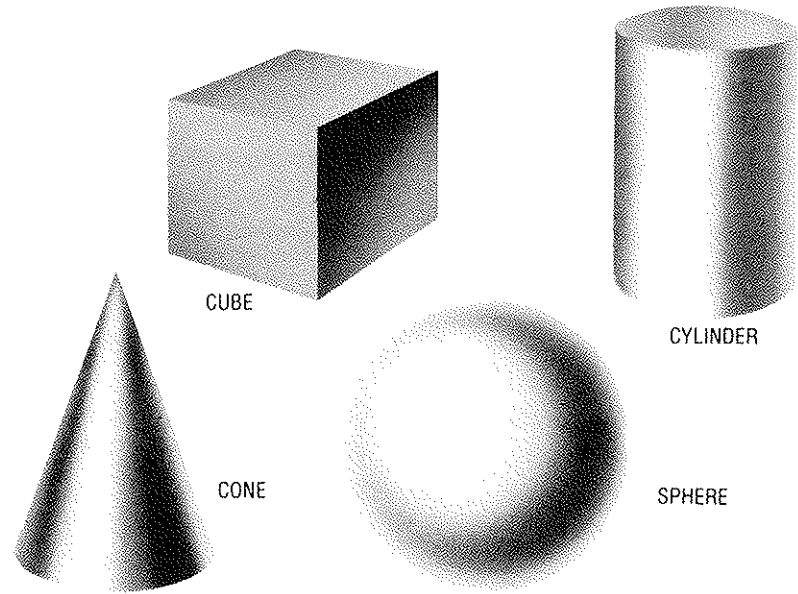
POSITIVE



REVERSE

Stencils are used when a design needs to be duplicated, as in posters and decorating. Cut from stiff paper, FOTO/FRISKET FILM™ or NO-TACK Stencil Film, hold the stencil firmly in position and spray starting with the edges and work inward. A reverse stencil can also be used, spray along the stencil edge.

EXERCISE FIVE / THREE DIMENSIONAL EFFECTS USING MASKS OR FRISKET



Rendering these basic forms will provide instruction and sequence in shading these shapes, which comprise all of the shapes you will encounter. Combinations of these forms make up all of the various products, etc. In air-brushing these shapes, it is a general rule to have the light source coming from the upper left hand corner at about a 45 degree angle.

CUBE Make a line drawing lightly about twice the size of the above illustration. Cut a frisket for the outline and dividing lines of the separate sides. At this time remove the frisket from the side farthest from the light source. Gradually air-brush a tone from the upper left corner to the lower right hand corner. Repeat the gradual dark tone as necessary, then remask the finished side and start the other sides until the desired effect is achieved.

CYLINDER Note how the light varies on the cylinder and makes the top flat surface different from the curved area. The frisket is cut along the curved line and while the top is masked, the side is sprayed. Then the side is masked and the top is sprayed.

Only practice will enable you to know how dark to paint one side of the subject while the other is masked.

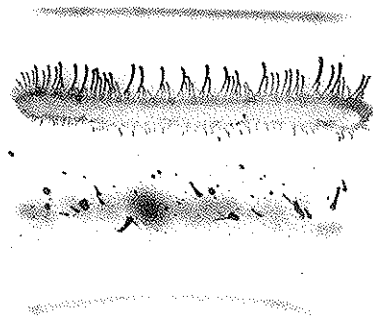
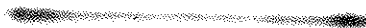
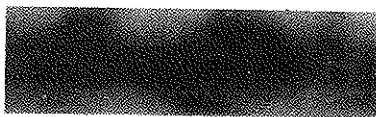
CONE Again cut a frisket of a cone shape. Remove the cone shape from the frisket. Start air-brush action from the top. Paint and flair slightly towards the curved base. Repeat the action on the right side until you achieve the tapered appearance as illustrated above.

SPHERE Place a frisket on the board making sure the remaining portion of the board is not exposed to air-brushing overspray. Use a compass knife and cut your circle and remove. Gradually air-brush lightly around the entire edge of the circle in a curved, rocking, back and forth motion. Next, start from the bottom right hand portion of the circle and air-brush upwards towards the center not quite reaching the center. Allow a high lighted circular portion of the sphere near the upper left hand portion. Continue until the sphere takes on a three dimensional appearance.

TROUBLESHOOTING YOUR AIR-BRUSH

- 1) **GRAINY SPRAY.** Caused by paint being too thick. Add water or thinner sparingly to the mixture and check the needle and regulator tip for dried paint. Also check the air supply to make sure air-brush is being operated at the proper pressure.
- 2) **BUCKLING PAPER.** Paint may be too thin or you may be applying paint in too heavy a coat.
- 3) **PAINT BLOBS AT THE ENDS OF THE STROKE.** You are spraying paint before moving your hand and stopping the movements before shutting off the paint flow.
- 4) **FLARED ENDS.** Caused by turning the wrist while air-brushing. The whole forearm should move horizontally across the paper.
- 5) **CENTIPEDES.** Caused by spraying too much paint too close to the paper. If a fine line is desired, lightly pull back on the front trigger.
- 6) **SPLATTERING.** Caused by permitting the needle to snap back into the tip. Always release the trigger gently. Check for dried paint on needle or tip. Also may be caused by triggering. See page 3 for proper triggering.
- 7) **CURVED STROKE.** Caused by arcing arm too close to the paper. Arm should always be parallel to the work, unless this effect is desired.
- 8) **BUBBLES THROUGH THE COLOR CUP.** The spray regulator might be turned out too far, or the head may be loose. Check both and tighten if necessary.
- 9) **COLOR SPRAY CANNOT BE SHUT OFF.** Tip may be clogged. This is recognized by a "spongy" feel when needle is set into tip. Remove the head from the air brush and clean the tip. - see Maintenance and Cleaning, page 3.
- 10) **PULSATING.** This is caused by the head being loose or the tip not seated properly. See page 3, Replacing the tip.

The only other reason that the brush may begin to pulsate is if the needle bearing wears down or falls out. There is a life-time warranty on this part because the owner cannot replace this part. If this occurs send back to factory for no-charge service (see warranty, page 2).



Air-Opaque™ The ready to use Airbrush colors. Offers you a choice of 35 colors plus 8 pearlescent colors. All 43 are pre-reduced for instant use, color-fast, waterproof, vibrant, quick drying, non-bleed paints. They are formulated for use with airbrushes, technical pens or artist brushes. All Air-Opaque colors are non-toxic and completely intermixable.

Modelflex™ These high quality water-based air brush ready acrylics are designed to give professional, as well as beginning modelers, an extreme finecoat coverage that brings out every detail. Authentic color reproduction and colorfastness, Modelflex™ is available in a vast array of railroad, military and automotive colors.

FOTO-FRISKET™ FILM

Foto-Frisket film is a transparent self-adhering masking and stenciling material which is cut directly on your work. Both matte and gloss are available in 8 1/2" x 11", 10 sheet pack, 12" x 15" roll, 24" x 15" roll.

Brite-White™ Airbrush Paper

Designed for airbrushing techniques, it is a super-strong surfaced 50% rag, 145 pound sulfite paper. Brite-White holds up extremely well to frisketing material, drafting tape and adhesive. This paper has an extremely bright white surface which adds vividness and life to airbrushed colors. Brite-White will not buckle when sprayed on. Both sides can be used. It is available in 10-sheet, 18" x 24" packages, in both hot and cold press.

AIRBRUSHING FOR FINE & COMMERCIAL ARTISTS

By Robert Paschal / 128 page with tear out exercise sheets.

AIRBRUSHING GUIDE FOR CERAMICS

By Ron Staples / 32 full color pages.

VOLUME II AIRBRUSHING TECHNIQUES FOR CUSTOM PAINTING

By Carl Caiati / 48 full color pages.

HOBBY AND CRAFT GUIDE TO AIRBRUSHING

By Carl Caiati / 32 page book.

STEP-BY-STEP MODELER'S GUIDE TO AIRBRUSHING

By Susan Harris and Evan Roark / 32 full color pages. Subjects include: Military Modeling, Figures, Diagrams and Scale Modeling of '69 Camaro

VIDEOTAPES (approx. 30 minutes)

PERFECT FOR CLASSROOM TEACHING

BV-001 Introduction to Airbrushed, Accessories and Airbrushing Mediums by Robert Paschal.

BV-002 VOL. I The Fundamentals of Airbrush Technique: Basic Exercise by Robert Paschal.

BV-003 VOL. II Intermediate Airbrush Technique: Working in Color by Robert Paschal.

BV-004 VOL. I The Art of Airbrushing Fingernails: A Basic Course by Elizabeth Anthony.

BV-005 VOL. II The Art of Airbrushing Fingernails: Advanced Design Techniques by Elizabeth Anthony.

BV-006 VOL. I T-Shirt and Fabric Airbrushing: Techniques for Getting Started by Tim Mitchell.

BV-007 VOL. II T-Shirt and Fabric Airbrushing for the intermediate Artist by Tim Mitchell.

BV-020 The Art of Airbrushing Wildfowl Carvings 60 minutes.



AIR-OPAQUE



FOTO-FRISKET



BRITE WHITE



BOOKS



PLEASE READ CAREFULLY BEFORE USING YOUR BADGER AIR-BRUSH

Your new BADGER air-brush should provide you with many hours of enjoyment. However, because of the nature of air-brushing and of the composition of materials which you may use in your air-brush, we are providing you with information about potential hazards.

Many materials commonly used in arts and crafts projects (such as lacquers, varnishes, adhesives, fixatives, powders, acrylics and solvents) can be extremely hazardous. Not all of these materials will be used in your air-brush, but may be used in some other phase of your project. We recommend that you always find out what is in the material you use. We suggest that when using **any** chemical substance that you request a copy of the manufacturer's **Material Safety Data Sheet** from your art supply dealer. This will give you some indication of the dangers posed and some of the precautions you need to take.

ALWAYS READ AND FOLLOW LABEL DIRECTIONS CAREFULLY.

CHILDREN Hazardous materials pose an even greater risk to children due to their lesser body weight and frequent lack of care in following directions. **CHILDREN SHOULD ALWAYS BE SUPERVISED WHEN USING AN AIR-BRUSH OR ART MATERIALS** (unless the materials have been certified by the Crayon, Watercolor and Craft Institute). An air-brush is not a toy. It should not be pointed at anyone or at oneself.

GOOD HYGIENE IS IMPORTANT ANYTIME YOU ARE WORKING WITH ART MATERIALS.

- Do not smoke, eat or drink while air-brushing.
- Avoid putting your fingers in your mouth while working on art projects.
- Be sure to clean your fingernails and wash your hands when you are finished.
- Be especially careful of the materials you use if you have cuts or open sores.
- **STOP WORK AT THE FIRST SIGN OF DIZZINESS, NAUSEA, HEADACHE, BLURRED VISION, OR SKIN IRRITATION.** Seek fresh air immediately, and call a doctor if the symptoms persist or are severe.

VENTILATION An open window does **not** provide adequate ventilation when working with hazardous art materials. When working with these materials, you should have an exhaust ventilation system (one which removes vapors, dusts, etc., from the area in which you are working and vents to the outside). A general ventilating system dilutes toxic vapors with fresh air to lower their concentration to a safer level.

Many factors have to be considered to determine the kind of ventilating system you should have. We suggest that you contact the National Institute for Occupational Safety & Health, (NIOSH), Robert A. Taft Laboratories, 4676 Columbia Parkway, Cincinnati, Ohio 45226 for publications which they have dealing with ventilating systems.

RESPIRATORS A respirator may pose more of a hazard than a help unless:

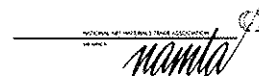
- you get one designed to filter out the specific hazardous substance you are working with
- one that fits properly
- you keep it properly cleaned and maintained.

We suggest you buy only a NIOSH* approved respirator and read and follow carefully the instructions which come with it.

A respirator may not be suitable for some people with heart or breathing problems. Information on respirators is also available from NIOSH at the address above.

RESOURCES In addition to NIOSH, you might want to read **Health Hazards Manual for Artists** by Michael McCann, PhD (published by the Foundation for the Community of Artists, 280 Broadway, Suite 412, New York, New York 10007) or contact the Consumer Products Safety Commission, Washington, D.C. 20207.

BA 314 A Made and Printed in U.S.A. 2/00



BADGER AIR-BRUSH CO.

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