

**THE STUDIO, MORE THAN
THE BENCH**

**AMPS East
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Mike Del Vecchio**





WHO AM I

- Å Mike Del Vecchio, Major, Field Artillery, Retired
- Å Currently working as the head of engineering for a water and wastewater technology company
- Å A passion for building models of artillery and artillery support equipment!!
- Å Known in many forums as Redleg'12





DEFINITIONS

Å Studio (stî'dÛØ styî'-)

n., pl., -os.

ï An artist's workroom

Å Work·bench (wûrkbnch)

n.

ï A sturdy table or bench at which manual work is done, as by an machinist, jeweler or artist.





DEFINITIONS

Å Man cave

//.

- i A dedicated area of a house, such as a basement, workshop, or garage, where a man can be alone or socialize with his friends

Å Thus, a „Man cave studio with a work bench”





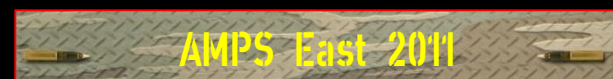
WHAT IS YOUR STARTING POINT

Å Who lives in a house they own?

- ï Are you looking to buildé .the studio??
- ï Where in the house?

Å Who rents or lives with someone?

- ï Many of the items to be discussed will apply and some will have to be more portable



THE STUDIO

Å Planning a Studio

Å The Room

Å The Bench

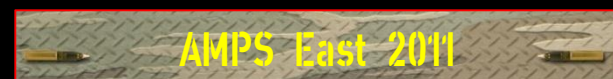
Å Storage

Å Paint Booth

Å Photo Area

Å Tools

Å Favorite Places





PLANNING PROCESS

- Å If you fail to plané ..you plan to fail
- Å Every good plan is made to be changed
- Å Start by drawing the room either on graph paper or on Auto CAD!
- Å Shop look and think at Home Depot/Lowes, Ikea, the internet, etc. Get ideas
- Å Make a budget \$\$\$ or \$\$/yr
- Å You can build all at once or over time with a good plan
- Å There is no right or wrong, only what works for you!



PLANNING THE STUDIO

Å Planning items

- ï Ventilation
- ï Lighting
- ï Power
- ï Communication
- ï Compressed Air
- ï Vacuum
- ï Flooring
- ï Cabinets Shelves & Furnishings
- ï Safety



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VENTILATION

Å Plan for room ventilation.

ï A/C and Heat feed and return

Å Ceiling Fans in the bench area

Å Ducting to the outside for paint booth





LIGHTING

- Å If windows are available, maximize natural lighting
- Å Go with one style light, either fluorescent or incandescent .do not mix
- Å Plan for task lighting.
- Å Lighted magnifiers, make sure to match light type
- Å Think of lighting the paint booth.



LIGHTING



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POWER

- Å You can never have enough power or outlets.
- Å Bench should have multiple outlet strips at either end
- Å Bench area wall should have quad wall outlets.
- Å Also plan outlets for compressor, paint booth fans, computer/desk



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COMMUNICATION

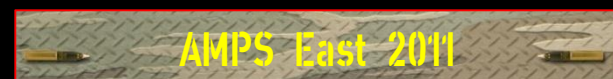
- Å The room should include a computer with CAT 6 wiring back to the router.
- Å Wireless is easy but can be slower
- Å Telephone, wired or wireless?
- Å Cable/Satellite i for entertainment!!





COMPRESSED AIR

- Å Use an „industrial” compressor. Minimum 2 ½ gallon pancake type
- Å Look to mount compressor in a sound proof area if possible.
- Å Use copper ½ inch tubing or pipe for piping.
- Å Pipe air to the paint booth & work bench
- Å Use local quick disconnect fittings and pressure regulators
- Å Install a storage tank if possible to increase compressed air storage



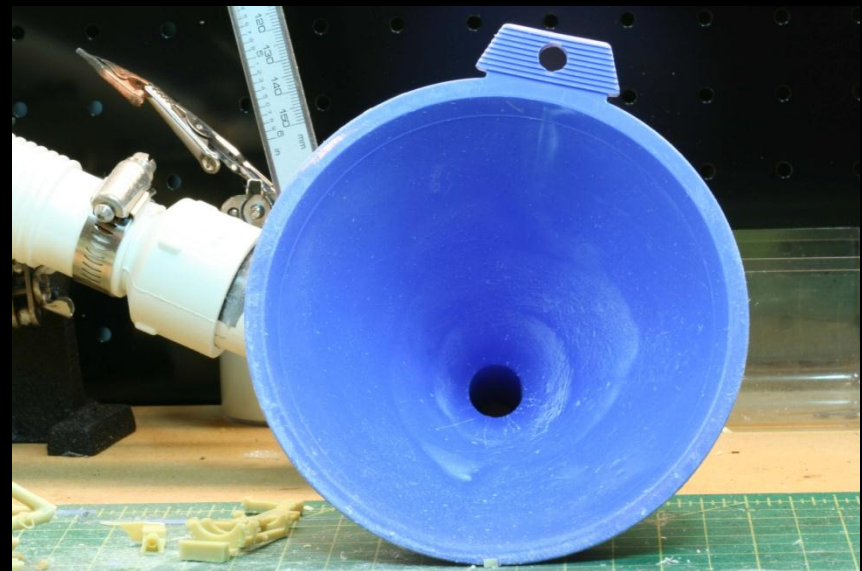
COMPRESSED AIR



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VACUUM

- Å Think about vacuum in the bench area for clean up and for working with resin
- Å Make a small „hood” from flexible ducting connected to the vacuum hose
- Å Vacuum should also be accessible for wood working for bases!





FLOORING

- Å Something easy to clean/paint resistant
- Å Does not support the small part monster
- Å Stay away from carpet
- Å I like garage tiles
- Å <http://www.racedeck.com/>
- Å <http://www.costco.com/Browse/Productgroup.aspx?Procid=11038308>



CABINETS, SHELVES & FURNISHINGS

- Å Cabinets, THINK IKEA, Very nice lines of inexpensive kitchen cabinets both wall and base cabinets
- Å Shelves for storage, Home Depot/Lowes
- Å Look in the shelving aisle but also in lumber for pre-punched side panels and cut shelves
- Å Display case/ shelvesé .again THINK IKEA
- Å Work Bench for modeling & Bench/Desk or other for paint booth



CABINETS, SHELVES & FURNISHINGS

Å Desk for computer

Å Most important itemé .the chair. Look for a GOOD comfortable, back supporting, well built chair. You will be spending a lot of time in it!

Å Visitor chair(s)

Å Clocké .. So you know how long you have been working!

Å I love me wall art!!



CABINETS, SHELVES & FURNISHINGS



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SAFETY

- Å Plug in emergency light
- Å First Aid kit
- Å Fire Extinguisher
- Å Eye Shields
- Å Respirator



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THE ROOM

- Å Is the room and attic room, spare bedroom, basement room, garage??
- Å Every room has strengths
- Å Is the room year round and not affected by seasonal change

- Å Is the space finished or unfinished?
- Å Walls are best with paneling
- Å Drop ceilings with inset lights



THE BENCH



Å Give yourself as much space as possible

Å Arms reach to each side é 5 ï 6' for the modeling area

Å Additional area for paint booth, resin or woodworking for bases.



STORAGE



Å Consider stash as well as library.

Å For stash I used '16" deep shelving and matching '12" for the books at the end

Å Note the small parts bin, great for all those leftovers

Å Use binders with photo insert pages for decals



STORAGE



Å Small stackable drawers are great.

Å These were from Staples and fit perfect. On sale could get a nice big stack

Å You can organize PE, styrene, tracks, etc.



STORAGE



Å All those little paint bottles.

Å Long narrow shelved for paint

Å Enough room to organize base on type, finish colors, etc.



PAINT BOOTH



- Å Prefer a scratch built
- Å Using 3/8 plywood, essentially a 2' x 2' x 2' box
- Å If you use mostly acrylics, min 100 cfm fan enamels at least 200 cfm
- Å Use under cabinet hockey puck lights
- Å Interior shelves to hold solvents



PAINT BOOTH



Å Outlet on the side for shaker power

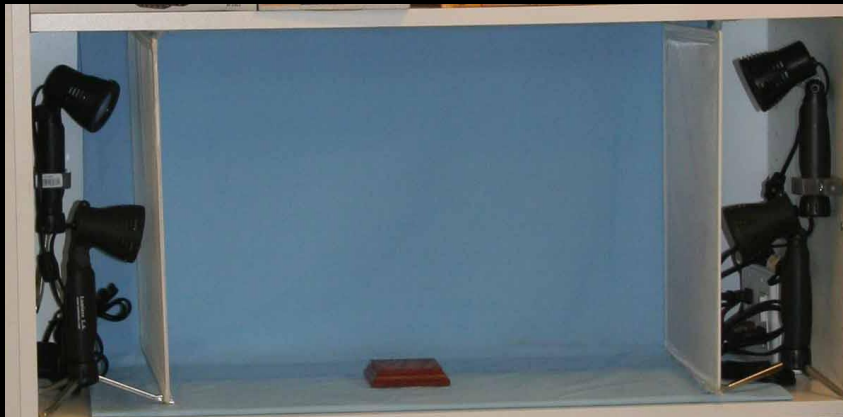
Å Paper towel rack underneath

Å Regulator also underneath

Å Vent exhaust to outside



PHOTO AREA



Å Backdrop of light blue polyester fabric \$2/yd

Å Spring loaded curtain rod \$4

Å Side diffusers use a transparent white fabric \$2/yd

Å Wire frame bent from 1/16 rod \$2

Å Lights after shopping well on the internet \$50



PHOTO AREA



Å You don't need a store
bought photo booth!

Å Mine is built in using my
'16" deep „stash" shelves



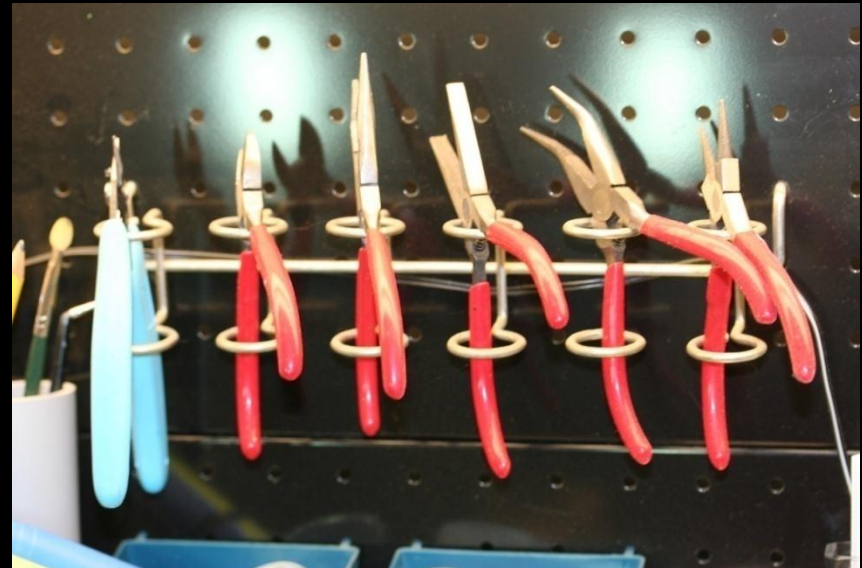
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TOOLS

Å Peg board makes a great bench back drop

Å A set of jewelers pliers for PE and sprue cutters are a must.

Å Peg Board cups are good for miscellaneous items



TOOLS

- Custom brush holder
- 1 1/2" PVC conduit
- 6 longer and 5 shorter
- PVC or Epoxy
- Sheet styrene cut to fit a bottom
- Sit on peg board hooks!
- Noteé a caliper is also good to have



TOOLS

Å Bench top organizer for frequently used tools.

Å Organizer was a sale pickup at Staples.



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TOOLS

- Å A great holiday gift idea.
- Å Could also be just a „Sears” automotive box.
- Å Small tool drawers perfect to layout tools to find when you need them.
- Å Note Dremel on extension on the right



TOOLS



Å Small clamps for holding a hull while glue sets.

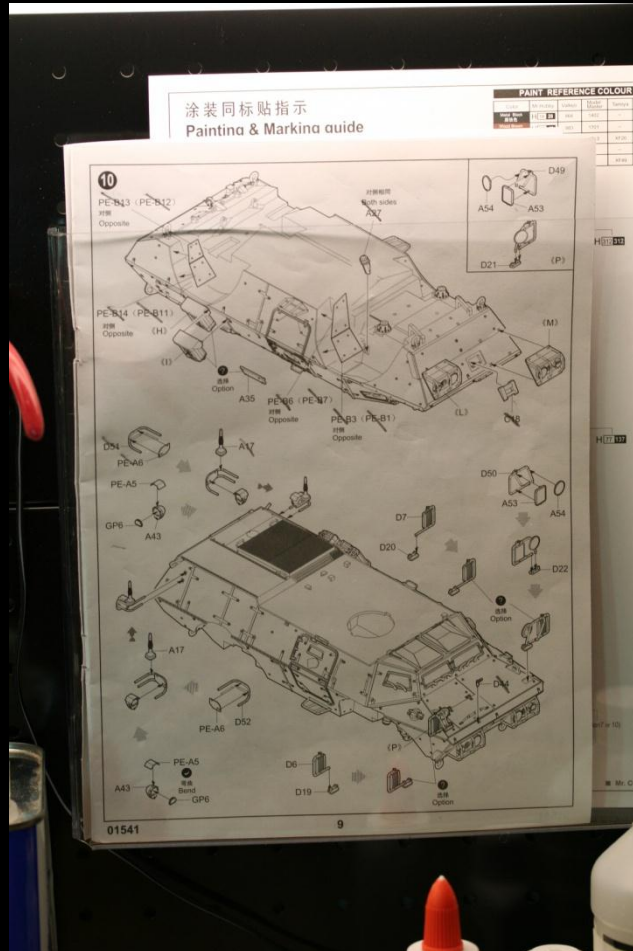
Å Small hand saw

Å Dremel with cutting blade for resin cutting and sanding

Å The old #11 E-xacto knife!



TOOLS



Å This is an acrylic magazine holder. I use it to hold the kit directions and any printed research material.

Å Something like this keeps paper off the work bench and out of the way.



TOOLS

A Pegboard on the legs of the bench keeps the larger items like the respirator or visor from clogging the main work area but are within reach.



TOOLS

Å List of other great tools

- ï Dremel with stand and flexible extension arm
- ï Foot pedal for Dremel
- ï Plastic Pottery wheel or lazy suzan
- ï Soldering Iron for PE
- ï Robart paint shaker
- ï Punch set is a must.

Å Duh Tools

- ï Syringes 1 ml for glue & 5 ml for solvents. Use needle for glues to get into tight space. Do not mix use
- ï Flint glass sample bottles for paint mixing/storage about 10 ml
- ï 20 ml disposable plastic measuring cups



FAVORITE PLACES

Å Stores

- ï Home Depot/ Lowes
- ï Michaels
- ï Any drug store chain
- ï Ikea (cabinets)
- ï Costco (flooring)
- ï Staples. Office Max

Å Internet

- ï Ebay
- ï Medical Supply
- ï Laboratory Supply
- ï Harbor Freight
- ï Micromark



LOOKING, SHOPPING, DECISIONS



- Å Be patient
- Å Look hard
- Å Measure twice, buy once
- Å Rome was not built in a day!
- Å Most of allé do what works and is right for you and your modeling!



ROUNDS COMPLETE!!



Å Thanks to all of you who
came to this session and
to the staff of NMMA/
AMPS East

Å Thanks to all my fellow
redleg's, past and present,
The King's of Battle



WE SUPPORT OUR TROOPS!

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END OF MISSION



Å Questions???

Å If after this seminar you have further questions contact me at:

ï redleg12@redleg2scale.com

Å Feel free to also check out my web site for a copy of these slides

ï www.redleg2scale.com

