

# Aviation Technologies: Student Tool Kits

## REQUIRED BASIC KIT:

1. Tool Box (back pack, handheld or roll around are adequate)
2. Flash light
3. Safety glasses or goggles
4. Ear plugs (can be disposable) or ear muffs
5. 10x magnifying glass
6. Inspection mirror
7. Dial caliper (6inch) digital is ok
8. Fine tip sharpie
9. Screwdriver set (12 to 28-piece set)
10. Offset screwdrivers (usually come in the bigger sets)
11. 6-inch steel rule (decimal chart on back is helpful)
12. Pliers set (needle nose, slip joint, duck bill, diagonal, channel lock)
13. Snap ring pliers
14. Feeler gage set, 25 leaf
15. Socket set 1/4-inch drive, (1/4 thru 9/16) (12-point sockets)
16. Socket set 3/8-inch drive, (3/8 thru 7/8)
17. Ratchets, 1/4 inch drive, 3/8-inch drive, and 1/2 inch drive
18. Extension set, 1/4 inch drive and 3/8-inch drive
19. Universal joint, 1/4 inch drive and 3/8-inch drive
20. Rubber dead blow hammer
21. Ball Peen hammer, 12-16 oz.
22. Punch set- Pin Punches, at least 3/32", 1/8", and 5/32 (a brass punch is handy as well)
23. Wrench set, S.A.E. combination (1/4 thru 1 inch)
24. Allen wrench set S.A.E
25. Metal file set (round, flat, and half round)
26. Spark plug socket (7/8 inch with 1/2 inch drive) (must be deep well to work)
27. Tire air chuck
28. Tire pressure gauge
29. Tire valve core removal tool
30. Center punch (spring loaded is nice)
31. Aviation snip set (3 piece) (left, right, and straight)
32. Hacksaw (fine tooth blade)
33. Scribe
34. Drill bits
  1. #40 - 2 each
  2. #30 - 2 each
  3. #21 - 2 each
  4. #10 - 2 each
35. Drill bits fractional each 32nd of an inch
36. Multi-Meter
37. Wire strippers, small gage (up to #26)

## Premade Kit Options:

## Low-cost Examples:

**HARBOR FREIGHT**  
 QUALITY TOOLS • LOWEST PRICES

What are you looking for today?

All Departments ▾ Coupons New Tools Deals Members Only Deals Job Inside Track Club Credit Card

Home >

**PITTSBURGH >**  
 Mechanics Tool Set, 225 Pc.

★★★★☆ (1,143) Write a Review

This tool kit is complete with three ratchets, 115 sockets, plus a full assortment of accessories packed in a rugged case

**\$139.99**

Compare at \$129.99 Save \$90

1 Add to Cart

+ Add to My List

✓ In Stock at Marion, IL  
 Store Info | Check Nearby Stores

**Found at harbor freight tools:** Good inexpensive kit that provides wrenches, ratchets, sockets, and Allen keys. As well as several extensions and universal joints.

**Advantages:** inexpensive, includes an organized carrying case which promotes tool accountability.

**Disadvantages:** not all inclusive, lower quality, contains some unnecessary tools

**WORKPRO 450-Piece Mechanics Tool Set, Universal Professional Tool Kit with Heavy Duty Case Box**

Visit the WORKPRO Store

★★★★☆ 501 ratings

Amazon's Choice For "auto mechanic master tool set"

**\$249.99**

Prime & FREE Returns

Pay \$41.67/month for 6 months, interest-free with your Amazon Prime Rewards Visa Card

**Enhance your purchase**

Monthly payments  
 From \$41.67/mo (6 mo) with 0% APR

**Brand** WORKPRO  
**Item Dimensions LxWxH** 18.51 x 15.78 x 12.4 inches  
**Material** Chrome Vanadium Steel  
**Head Style** Box End  
**Operation Mode** Mechanical

**About this item**

- 1/4in, 3/8in and 1/2in Quick-release ratchets feature a fine, 45-tooth gear providing a 8° arc swing
- Universal various of sockets are constructed of chrome vanadium steel, heat treated for strength and durability, bright Chrome-plated surface that allow you to easily identify your universal tools in your tool box or on your work bench
- With stamped marking for you to quickly identify metric and SAE socket sizes
- All tools are neatly organized in a sturdy blow-molded case for easy storage

**Found on Amazon:** Good kit that is slightly more expensive, but includes a wider range of hand tools than the Harbor Freight option.

**Advantages:** Inexpensive, includes carrying case, includes a wider range of hand tools, good organization

**Disadvantages:** not all inclusive, lower quality.

## Mid-Priced Examples:

**SONIC** Shop ▾ Industries ▾ About ▾ Search 🔍 Warranty Exchange Ir

Home / Shop / Basic Aviation Toolset

**BASIC AVIATION TOOLSET**  
 BASIC  
 SKU: 714555  
 ★★★★★ (1 review)  
 Write a Review

The Sonic Basic Aviation Toolset is designed to be mobile. With either the topbox or backpack easily move your tools around the shop. With this 145 piece tool kit you get tri-lobed Phillips and slotted screwdrivers, an assortment of 1/4" and 1/2" 12pt. SAE sockets, as well as the essential combination pliers, hammers, and hex keys. This set has everything you need for your aviation career. This set comes standard with a serialized tool ID laser etched on each tool.

**\$2,725.00**  
 Starting at \$95/mo with [Prequalify now](#)  
 Lifetime Warranty ▾  
 Inventory Control ▾  
 Shipping ▾  
 Laser Etching ▾

**ADD TO CART**

1

### Found at sonic tools online

**Advantages:** aviation specific, high quality, only includes necessary tools. Foam inserts for proper tool placements and accountability. Includes tool box.

**Disadvantages:** More expensive, no wheels for easy mobility.

### Teng Tools - 187 Piece Mecca Rosso Mechanics Tool Kit - TEN-O-TC187

\$339.99 ~~\$467.99~~



- Accessories - 1/4 inch drive - 30 socket clips, FRP ratchet, universal joint, 2in. and 4in. extensions, 3/8in.F:1/4in.M adaptor, coupler adaptor
- Accessories - 3/8 inch drive - 30 socket clips, FRP ratchet, universal joint, 6in. extension,
- 1/2in.F:3/8in.M adaptor
- Accessories - 1/2 inch drive - 30 socket clips, FRP ratchet, universal joint, 21 /2in. and 6in. extensions, 3/8in.F:1/2in.M adaptor
- Regular sockets - 1/4 inch drive - 6 point - 4, 5, 5.5, 6, 7, 8, 10, 11, 12, 13mm
- Deep sockets - 1/4 inch drive - 6 point - 6, 7, 8, 10, 12, 13mm
- Regular sockets - 3/8 inch drive - 6 point - 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 21, 22mm
- Regular sockets - 1/2 inch drive - 12 point - 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 21, 22, 24, 27, 30, 32mm
- Bits - 1/4in. hex - TX8, TX10, TX15, TX20, TX25, TX27, TX30, TX40, 3mm hex, 4mm hex, 5mm hex, 6mm hex, 7mm hex, 8mm hex, 10mm hex, PH1, PH2, PZ1, PZ2, 4mm flat, 5.5mm flat, 7mm flat
- Wrenches - 8, 10, 11, 12, 13, 14, 15, 17, 19mm combination spanners, ring holder, 1.5, 2.0, 2.5mm hex keys

### Found at Teng Tools online

**Advantages:** Low cost with high quality. Includes a lot of tools for its compact size. Great mobility, fold out tool box included

**Disadvantages:** not aviation specific, low tool organization, not all inclusive

## High-Priced Examples:



**INTERMEDIATE AVIATION TOOLSET**  
 INTERMEDIATE  
 SKU: 1526305  
 ★★★★★ (1 review) Write a Review

Sonic thought of the Aviation experts with this 255-piece tool set, hence many tools in this kit are an excellent fit for the trade. This toolset features all SAE sockets and wrenches. This toolset is available with or without a toolbox. Please select your option to the right. This set comes standard with a serialized tool ID laser etched on each tool. Custom etching is available for added cost.

**\$9,705.00**  
 Starting at \$154/mo with @. Prequalify now

Lifetime Warranty ▾  
 Inventory Control ▾  
 Shipping ▾  
 Laser Etching ▾  
 Select Toolbox Option: \*

STS Toolbox - \$4395 ▾

**ADD TO CART** 1

### Found at sonic tools online:

**Advantages:** aviation specific, high quality, only includes necessary tools. Foam inserts for proper tool placements and accountability. Includes tool box. Large box that can be grown into. A tool set of this quality and size will likely last a career

**Disadvantages:** High upfront cost

### Snap-on Tools

Snap-On offers a large variety of aviation specific tools. They sell both preassembled kits or assemble custom kits to your spec. Although the cost is high, their quality and warranties are hard to beat. **Snap-on offers a discount program for students enrolled in the Aviation Technologies program.** If you are committed to the field, this might be a good investment for you.

## General Tool Information and Frequently Asked Questions:

### 1. What about metric tools?

Contrary to other many other industries, aircraft within the U.S do not typically feature metric fasteners. As a result, metric wrenches, sockets, allen wrenches, etc. are not required in this program.

### 2. Where should I purchase my tools?

This question primarily depends on your career plans and budget. If you are fully committed to a career in aviation maintenance we suggest purchasing higher end tools that will become an investment, feature warranties and make your day to day job easier. If you are unsure about what lies ahead or have a small budget, you may wish to purchase inexpensive or second-hand tools, etc. These are more than adequate for our training environment. You can always upgrade later if you decide.

### 3. I'm unsure what this tool is or how to find one. Who do I ask?

If you have any questions regarding items on the list, don't hesitate to reach out to your academic advisor. They can put you in contact with an instructor who can answer your question

### 4. How do I take advantage of the Snap-on discount program?

Speak with your instructors during your first semester. They can provide you with contact information. Alternatively, you can search Snap-on student discount program online for more information.

## RECOMMENDED TOOL RESOURCES:

- MAC TOOLS ([www.mactools.com/](http://www.mactools.com/))
- HARBOR FREIGHT ([www.harborfreight.com/](http://www.harborfreight.com/))
- SNAP-ON TOOLS ([www.snapon.com/](http://www.snapon.com/))
- CORNWELL TOOLS ([www.cornwelltools.com/](http://www.cornwelltools.com/))