

Airframe Technician Tool List



Below is the recommend list of tools needed as an Airframe Technician with Duncan Aviation. You are encouraged to purchase tools of good quality and should have your full inventory within 90 days of hire. Remember to utilize the **Duncan Aviation Tool Account Program** to help manage these upfront costs. As you further your career with Duncan Aviation, you may find it beneficial to purchase additional tools based on amount of use and convenience.

New Hire Requirements (Within 90 Days)

Sockets, Ratchets, Wrenches		Hammers	
	1/4" Sockets, Shallow 3/16"-9/16" 12pt.		6/8 oz. Ball Peen Hammer
	3/8" Sockets, Shallow 3/8"-3/4" 6pt.		Plastic/Rubber Tipped Hammer
	1/4" Drive Swivel Socket Set 1/4"-9/16"		
	1/4" Drive Extension Set		
	1/4"-3/8" Ratchets	Screwdrivers	
	3/8"-1" Combination Wrenches		Set of Common & Phillips Screwdrivers
	Ignition Wrench Set (13/64 to 11/32)		Multi bit screw driver that accepts 1/4" replacement tips.
	10" Crescent Wrench		Close Quarters Ratcheting Driver Close quarters offset ratcheting screwdriver available from the Yard Store # 13981.
	3/8" Drive Speed Handle		
	Allen Wrench Sets/Kit, <i>Standard & Metric – In holder</i>	Measuring Tools	
			6" Steel Rule
Pliers			Feeler Gauge Set
	Channel Locks		
	Slip Joint Pliers	Miscellaneous Tools	
	Side Cutters		Quality LED Flashlight
	Duck Bills		Quality LED Head Lamp
	Needle Nose Pliers		2 " Telescoping Inspection Mirror
	Safety Wire Pliers		Punch/Chisel Set
	L/H, R/H and Straight Aviation Snips		Putty Knife
	10" Knipex Pliers (<i>smooth jaw</i>)		Set of Files
	7" Knipex Pliers (<i>smooth jaw</i>)		Magnifying Lens (10x)
			Pickup/Retrieval Magnet
Toolbox			Mechanical Fingers
	Rollaway Cabinet Tool box size is not not exceed a foot print of 1,800 square inches (for reference this is equivalent to a 60" X 30" toolbox such as the 2006 Snap-On model KRL 1001). Height restriction is such that the owner must be able to easily see over the highest point on the box while moving it.		Scribe/Alignment Awl
			Pick Set (<i>good quality</i>)
			Tap Wrench – To fit screw extractor General Tool # 161R or equivalent
			Automatic Center Punch
			Cotter Pin Extractor
			Air Nozzle (Safety Nozzle)

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Requirements (Within 1 Yr.)	Requirements (Within 3 Yrs.)
Ratcheting multi bit Screwdriver	V.O.M. Meter (Fluke or equivalent)
Basic Set Metric Wrenches/Socket	Pneumatic Die Grinder
LED Drop Light	1/4 " Air Drill
Tool Tote Bag	Verner Calipers (Dial or Digital)
1/4" Drive Sockets Deep 3/16"-9/16" 12 Pt.	Quality 1/4" Drive Torque Wrench (30in.Lbs.-200in.Lbs.)
3/8" Drive Sockets Deep 3/8"-3/4" 6 Pt.	Aviation Rivet Gun and Sets
3/8"-3/4" 30/60 deg Angle Wrenches	Air Pressure Regulator
Brass Punch Set	Soldering Station
Dead Blow Hammer	1/4" Drive Air Ratchet
Crows Foot Set 3/8"-1"	Clecos/Cleco Pliers
Aviation Wire Strippers	

**** As a general rule, if you have to borrow a specific tool several times, you need to consider purchasing one of your own, and we expect the employee to purchase the best quality of tools they can afford. Start out with the basics and build your tool kit as you go.**

The Duncan Aviation Tool Control program requires all tools in your tool box to be shadowed and marked identifying them to you specifically. During your Orientation, you will be issued your unique Duncan Aviation employee code; this code will be used to identify your tools. Duncan Aviation will provide your first set of foam for your box and materials to mark/identify your tools.

Tool Box

You will need a good roll-around tool box. You do not need to go big, you can always upgrade as you get settled in your new career.

Cordless Drill or Screw Gun

When shopping for a cordless drill don't skimp here, look for a quality lithium battery powered model with an adjustable clutch, Dewalt, Makita and Milwaukee make a good drill. Favor the brushless models for longevity, and battery life. The newer 12 volt models usually serve well, while the 18-20 volt models are also desirable, but are heavier.

Bits

There is not much of need for a large assortment of 1/4" replaceable screwdriver tips. Duncan Aviation considers the tips "consumables" and will supply most of the bits needed due to the wide variety of aviation specific fasteners. Likewise with **drill bits**, aviation primarily uses number bits # 1 – 60. If you purchase a set of drill bits, Duncan Aviation will replace the bits when they are worn.

Employee Tool Purchases

Remember, Duncan Aviation offers an Employee Tool Account, AAF-2300, allowing new employees to borrow up to \$1500.00, interest free, their first year to purchase personal tools. Many times, you can take advantage of Duncan Aviation's buying power or corporate discounts to purchase tools at a discount. Inquire about this benefit during your Orientation.

Most precision tools required by your job are provided by Duncan Aviation and are available from the tool crib or GSE. If you choose to purchase your own precision tools, please follow our Cal-Lab recommendations below. *For quality and certification considerations, we expect the employee to purchase the best quality tools they can afford.***

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Precision Tools

Make	Recommended Model(s)	Comments
Multimeter		
Fluke	114 - 117 Series	Models 114 through 117, features vary by model.
Torque Wrench - Digital		
Snap-On/CDI*	xxxxCA3 Series	Electronic Torque Wrench
	xxxxCASG Series	Electronic Torque Wrench
	xxxxTAA Series	Electronic Torque and Angle Wrench
Torque Wrench - Analog		
Snap-On/CDI*	xx1SM Series	in.lb, 1/4" hex bit drive, micro-adjustable screwdriver style
	xxxLDINxx or xxxLDFNxx Series	Single or Dual Scale Dial Indicating
	xxxxMRMH or xxxxMFRMHxx Series	Single or Dual Scale Micrometer Adjustable Click Style
<i>* Calibration Lab employees are Snap-On factory trained to calibrate and repair Snap-On and CDI torque devices.</i>		
Precision Instruments	MD1F35H	5-35 in.lb, 1/4" drive, screwdriver style
	D1F50H	0-50 in.lb, 1/4" drive, dial torque driver
	M1x200H	40-200 in.lb, 1/4" drive, click
	M2x200H	40-200 in.lb, 3/8" drive, click
	M2x100F	20-100 ft.lb, 3/8" drive, click
	M3x250F	50-250 ft.lb, 1/2" drive, click
Caliper		
Mitutoyo	505-742	6" dial caliper
	500-196-30	6" digital caliper
Starrett	No. 120	6" dial caliper
	No. EC799A-6/150	6" digital caliper
Micrometer		
Mitutoyo	103-135	1" micrometer, 0.0001" resolution - dial
	293-330	1" micrometer, 0.00005" digital (293 series)
Starrett	T436-1XRL-1	1" micrometer, 0.0001" resolution - dial
	796-1XRL-1	1" micrometer, 0.0005" resolution - digital