

Below is the recommend list of tools needed as an Airframe Fuel System Specialist with Duncan Aviation. You are encouraged to purchase tools of good quality and should have your full inventory within <u>90 days of hire</u>. 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)

1/4" Drive Sockets, Shallow and Deep Well 6 pt (Standard and Metric) 1/4" Drive Sockets, Shallow and Deep Well 6pt (Standard and Metric) 1/4" Drive Sockets, Shallow and Deep Well 6pt (Standard and Metric) 1/4" Enrive Extension Set 1/4" Enrive Extension Set 1/4" Say8" Drive Ratchets 1/4" & 3/8" Drive Ratchets 1/4" & 3/8" Drive Ratchets 1/4" Set of Common and Phillips Screwdrivers 1/4" seplacement tips (Apex Bits) 1/4" replacement tips (A	New Tille Requirements (Within 30 Days)				
Standard and Metric 3/8" Drive Extension Set	Sockets, Ratchets, Wrenches	Hammers			
(Standard and Metric) 1/4" Drive Extension Set Apex Socket — Bit adapter — ¼ to ¼ 8004DYKIH4 Available on Amazon 1/4" & 3/8" Drive Ratchets Screwdrivers Set of Common and Phillips Screwdrivers Metric) Ignition Wrench Sets (Standard and Metric) Multi bit screw driver that accepts 1/4" replacement tips (Apex Bits) 3/8" Drive Breaker Bar Ratcheting Screwdriver Close Quarters Ratcheting Driver Close Quarters Ratcheting Screwdriver available from the Yard Store # 13981. With Colse Plier Tools Store # 13981. William Screwdriver available from the Yard Store # 13981. William Screwdriver available from the Yard Store # 13981. Tools Screwdriver available from the Yard Store # 13981. William Screwdriver available from the Yard Store # 13981. William Screwdriver available from the Yard Store # 13981. William Screwdriver available from the Yard Store # 13981. William Screwdriver available from the Yard Store # 13981. William Screwdriver available from the Yard Store # 13981. William Screwdriver available from the Yard Store # 13981. William Screwdriver available from the Yard Store # 13981. William Screwdriver available from the Yard Store # 13981. William Screwdriver available from the Yard Store # 13981. Wi		Ball peen Hammer (12oz20oz.)			
Apex Socket – Bit adapter – ¼ to ¼ B004DYKIH4 Available on Amazon 1/4" & 3/8" Drive Ratchets 3/8"-1" Combination Wrench Set (Standard and Metric) Ignition Wrench Sets (Standard and Metric) Ignition Wrench Sets (Standard and Metric) Multi bit screw driver that accepts 1/4" replacement tips (Apex Bits) 3/8" Drive Breaker Bar Ratcheting Screwdriver Ratcheting Tap Wrench Close Quarters Ratcheting Driver Close quarters offset ratcheting screwdriver available from the Yard Store # 13981. 3/8" Drive Speed Handle Insert Bit Holder (Apex Bits to Speed Handle) Snap-On # FBS8, Yard Store # 56104 Allen Wrench Sets (Standard and Metric) in plastic block Pliers Quality LED Flashlight Quality LED Head Lamp 2 " Telescoping Inspection Mirror Channel Locks Slip Joint Pliers Set of Files (Small Set) Magnifying Glass (With Light) Automatic Center Punch Needle Nose Pliers Magnet Magnifying Lens (10x) Pickup/Retrieval Magnet Toolbox Rollaway Cabinet (No Top Boxes) Tool box size will be limited to 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 KRI. 1001, Height restriction is such that the owner must be able to easily see over the highest point on worth and print of Scribe (Autch) Brass Punch Set		Plastic/Rubber Tipped Hammer			
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Ratcheting Screwdriver Ratcheting Tap Wrench Close Quarters Ratcheting Driver Close Quarters offset ratcheting screwdriver available from the Yard Store # 13981. 3/8" Drive Speed Handle Insert Bit Holder (Apex Bits to Speed Handle) Snap-On # FBS8, Yard Store # 56104 Allen Wrench Sets (Standard and Metric) in plastic block Punch/Chisel Set Slip Joint Pliers Channel Locks Slip Joint Pliers Set of Files (Small Set) Side Cutters Magnifying Glass (With Light) Duck Bills Automatic Center Punch Needle Nose Pliers Magnet Safety Wire Pliers Safety Wire Pliers (smooth jaw) Toolbox Rollaway Cabinet (No Top Boxes) Tool box size will be limited to a foot print of 1,800 square inches (for reference this is equivalent to a 60" x30" 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 Rollaway Cabinet (No Top Boxes) Tool box Rollaway Cabinet (Rollo 1001). Height restriction is such that the owner must be able to easily see over the highest point on	Ignition Wrench Sets (Standard and Metric)	Multi bit screw driver that accepts			
Ratcheting Tap Wrench Close Quarters Ratcheting Driver Close quarters offset ratcheting screwdriver available from the Yard Store # 13981. 3/8" Drive Speed Handle Insert Bit Holder (Apex Bits to Speed Handle) Snap-On # FBS8, Yard Store # 56104 Allen Wrench Sets (Standard and Metric) in plastic block Quality LED Flashlight Quality LED Head Lamp 2 " Telescoping Inspection Mirror Channel Locks Slip Joint Pliers Set of Files (Small Set) Side Cutters Magnifying Glass (With Light) Duck Bills Automatic Center Punch Needle Nose Pliers Safety Wire Pliers Magnifying Lens (10x) 10" Knipex Pliers (smooth jaw) Toolbox Rollaway Cabinet (No Top Boxes) Tool box size will be limited to 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 Close Quarters Ratcheting Screwdriver available from the Yard Store # 13981. Miscellaneous Tools Quality LED Flashlight Quality LED Flashlight Quality LED Flashlight Quality Centles Set Set of Files (Small Set) Magnifying Glass (With Light) Automatic Center Punch Magnet Safety Alignment Awl Cotter Pin Extractor Scribe/Alignment Awl Quality Pick Set Safety Air Blow Nozzle Quality Cordless Drill (Must Have Adjustable Clutch) Brass Punch Set		1/4" replacement tips (Apex Bits)			
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owner must be able to easily see over the highest point on Brass Punch Set					
		Brass Punch Set			
the box while moving it.	the box while moving it.	90 Degree Die Grinder			



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cellaneous Tools		
3/8" Air Drill	Tool Tote Bag	
Air Pressure Regulator	Air Suck Bag	
uirements (Within 2 Yrs.)		
Crows Foot Set 3/8"-1" (Standard and Metric)	Fuel Tank Sealant Gun	
Aviation Wire Strippers	1/4"-3/8" Torque Wrenches **	
Digital Calipers	Rivet Squeeze and Sets	
Aviation Rivet Gun and Sets	Pry Bar Set	
Clecos/Cleco Pliers	Stubby Wrenches (Standard and Metric)	
1/4" Drive Air Ratchet	Gear Wrenches (Standard and Metric)	
1/4" Drive Swivel Socket Set 1/4"- 9/16" (Standard and Metric)	1/4"-3/8" Allen Socket Set	
Feeler Gauge Set	Screwdriver Style Torque Wrench	
L/H, R/H and Straight Aviation Snips	1/2" Drive Shallow and Deep Sockets 12 pt (Standard and Metric)	
Micrometer	1/2" Drive Ratchet	
V.O.M. Meter (Fluke or equivalent)	1/2" Drive Breaker Bar	
Dead Blow Hammer		



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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				
	xxxxCA3 Series	Electronic Torque Wrench		
Snap-On/CDI*	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		
* Calibration Lab employees are Snap-On factory trained to calibrate and repair Snap-On and CDI torque devices.				
. ,	MD1F35H	5-35 in.lb, 1/4" drive, screwdriver		
		style		
	D1F50H	0-50 in.lb, 1/4" drive, dial torque		
Dunaisia a Instances anto		driver		
Precision Instruments	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		



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** 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 heaver.

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.

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