

RANS S-20 RAVEN

AIRCRAFT TOOL LIST

The following is a list of tools that will be helpful when assembling your RANS aircraft.

HAND TOOLS

Pliers	Safety Wire Pliers
Needle Nose Pliers	Linesman Pliers
Side Cutters	Electrical Wire Strippers
Aviation Snips	Pop Rivet Tool
Hammer	Click Punch
Rubber Mallet*	Ball Peen Hammer
Center Punch	Drift Pin & Punch Set
Screwdriver Set	Safety Glasses
Several Small Clamps (Stanley quick clamps work well)	Wrench Set SAE & Metric
Socket Set – SAE & Metric	Ruler & Tape Measure
2 or 4 ft. Level	Utility Knife Hole Saw*
Set of Drill Bits (sizes listed below)	Hack Saw
Fluting Pliers	Scotch-Brite Pads
1/2" & 3/4" Uni-Bit® Step Drill	Digital Protractor*
Pop Grip Dimpler for 1/8" holes	Files
Cleco Pliers	Silver #40 Clecos
Copper #30 Clecos	Gold #11 Clecos

POWER TOOLS

Electric Hand Drill	Small Electric Grinder
Dremel*	Bench Disk Sander*
Soldering Gun/Hot Knife	Heat Gun*
CD/MP3 Player*	Right Angle Drill and Bits

It is highly recommended to use a pneumatic riveter.

RANS uses these pneumatic riveters.

Marson V2 lightweight pneumatic riveter P/N 79014

MSC Industrial Supply Co. P/N 04053278

LUBRICANTS, ADHESIVES, TAPES & ETC

Small Can Lithium Grease	Clear Silicone
WD40	Super Glue
Lubricating oil	Loctite Blue Threadlocker
3M DP-460 Epoxy Adhesive, Plunger & Mixer Tips	DOW 730 Sealant or similar
3M Super 77 Spray Adhesive	Thread Sealant
1/4" wide Double Stick Tape	Safety Wire
Hi-Temp Silicone Seal (RED)	Clear Plastic Tape (anti-chafe)
1" Acrylic Foam Tape (2-sided)	Adhesive backed Velcro
White Lightning Bike Chain Lube or similar	Masking Tape

DRILL BIT SIZES

A full set of fractional drill bits ranging from 3/32" to 5/8" is strongly recommended. In addition to these, the following number bits will be required to assemble your S-20 RAVEN.

NUMBERED BITS

#40

#30

#11

#28

#21 & 10-32 TAP

FRACTIONAL BITS

1/4"

5/16"

3/8"

1/2"

7/8"

*Not a necessary tool but helpful