REQUIRED STUDENT TOOL LIST

REQUIRED WITHIN FIRST 2 WEEKS

- Combination wrench set (1/8" to 1 1/4"")
- 6" diagonal cutting pliers
- 8" Duck bill pliers
- Hacksaw with assortment of blades
- 6" steel rule
- 25' Tape measure
- Multi-meter (volts, ohms, amps) 13-20 ranges
- Needle (precision) file set
- Safety glasses (comfortable)
- Scientific calculator

REQUIRED WITHIN FIRST 2 MONTHS

SOCKET SETS

1/4" Drive
- Reversible ratchet (fine tooth preferred)
- 3" and 6" extension bars
- 12-point sockets (1/8" to 9/16")
- 12-point deep well sockets (1/4" to 9/16")

3/8" Drive
- Reversible ratchet
- 3" and 6" extension bars
- No. 2 Phillips and 5/16" flat bit and holder
- 12-point sockets (5/16" to 1"")
- 12-point deep well sockets (5/8" to 1"")

WRENCHES
- 10 piece combination miniature (ignition)

SCREWDRIVERS
- Slotted: stubby, 5/16 X 4, 1/4 X 6, 5/16 X 8-in.
- Phillips: Nos. 0, 1, 2, and 3 & stubby #2.

HAMMERS
- 12 oz. ball-peen
- 12 oz. plastic-tip

PLIERS
- 6" long nose
- 6 1/4" slip-joint
- 9 1/2" Arc joint/adjustable joint
- 6" safety-wire

MISCELLANEOUS TOOLS

- 14-piece hex key set (i.e. Allen® wrenches)
- Ignition (feeler) gauge set (miniature type)
- Punches (3/32", 1/8" pin, starting & center)
- Chisel set (cape, 5/8" flat & 1/2" flat)
- Brass drift set
- 12" combination square
- Magnetic pick-up tool
- Small flashlight (Mag-Lite style)
- (2) Inspection mirrors - 1 large, 1 small
- Paint respirator (organic vapor type)
- (3) Files (with a handle)
  - 8" flat, 8" round, and 8" half-round
- Air blow gun kit (dust gun with defuser)
- Hearing protection (ear muff style)
- Tool box (Bottom roll box preferred)
- Compound leverage “aviation” snips
  (Offset handles)
- Welding goggles (#5 flip up lens)
- Welding gloves (light duty)
- 7/8" aviation spark plug socket
- Air chuck

RECOMMENDED TOOLS (not required)

- Crow's feet (3/8" to 1")
- Swivel sockets (1/4" to 9/16")
- (2) Torque wrenches -
  (1) 30-150 in.lb, (1) 10-75 ft.lb.
- Angle head wrenches (5/16" to 1 1/4")
- Stubby wrench set (5/8" to 1")
- Ratcheting screwdriver with bits
- Ratcheting off-set screwdriver
- Precision screwdriver set
- Micrometer, 0-1"
- Venire caliper
- Retaining ring pliers
- Magneto timing light
- Wire type spark plug gap gauge set
  (.015" to .022")
- Soldering iron (15 to 30 watt)
- 12-piece punch, chisel, and line-up set
- 3/8" cordless drill
- Pneumatic die grinder
- Air drill (geared)
- Drill bit set: #1 – #60
- Sheet metal nibblers
- Automatic center punch
  (Replaces required center punch)
- Deburring tools (knife & hole)
- Thread pitch gauge
- Large flashlight (Mag-Lite style)