

Weber State University – Automotive Technology Program

Required Tools for all 2-Year degrees

All automotive students are required to provide their own hand tool set. The following list of tools will serve as a guide for all 2-year program students. Students will receive assistance in selecting their tools during the first week of classes at the freshmen and sophomore orientations. These tools may be purchased from any vendor of the student's choice and substantial discounts are available from most vendors. Weber State University does not sell tools.

The complete tool list is shown. Tools may be purchased over a period of time to match the course requirements. All tools and the upper and lower toolboxes are required by the beginning of the first co-op session.

Safety Equipment & Uniforms

- 1 Pair leather work shoes
- 4 Work uniforms
- 2 Fender covers
- 1 Seat cover (can substitute with large beach towels)
- 1 Pair soft fame safety goggles
- 1 Pair safety glasses

Complete Tool List

- 1 Pliers -wire stripper/crimper
- 1 Pocket Screw Driver
- 1 3/8" drive metric socket set 8mm-19mm (deep & shallow)
- 2 3/8" drive spark plug sockets-1-13/16" & 1-5/8" (Flex)
- 1 17-piece 1/2" drive socket set 12mm-24mm (deep & shallow)
- 1 1/4 drive socket set metric
- 1 Combination wrench set 5/16" to 1"
- 1 Metric combination wrench set 7mm to 21mm
- 1 Torque wrench 0 to 200 ft/lb capacity (prefer dial type)
- 1 Metric flare nut wrench set - 6 pieces -9mm to 21mm
- 1 Screwdriver set including 4 standard, 4 Phillips #1,2,3,4
- 1 Metric Allen wrench set
- 1 Allen Wrench Set (standard)

- 1 Jumper Wires (Assortment)
- 1 Package of Tee Pins
- 1 Golf Tees (Assortment)
- 1 Pliers- slip joint
- 1 Pliers- needle nose
- 1 Pliers- diagonal wire cutters
- 1 Pliers-9" channel lock type
- 1 Pliers-6" vice grip
- 1 Pliers-10" vice grip
- 3 Ball peen hammers- 8 oz, 20 oz and 24 oz
- 1 Plastic tip hammer
- 1 Medium size dead blow
- 1 16" pry bar (Lady Slipper Type)
- 1 Brass drift-6"
- 1 Scratch awl
- 1 Gasket scraper
- 1 6" steel rule (1/32 & mm scale)
- 1 Tire gauge
- 1 Steel tape 12 ft. long
- 1 Small flashlight
- 1 Hand operated vacuum pump with gauge
- 1 Battery terminal cleaner (top post)
- 1 Battery terminal puller
- 1 HEI sparkplug tester
- 1 Test light- circuit powered (high impedance)
- 1 DVOM (Fluke Series 87-V Multimeter or equivalent, minimum standard- should have frequency capabilities)
- 1 Brake spring hold down tool
- 2 Brake adjusting tools
- 1 Brake return spring removing and installing tool

- 1 Brake bleeder hose, (3/16" dia. clear plastic tubing)
- 1 set torx bits-3/8" drive set (T27, 30,40,45,55 & GM 50) Torx sockets (E8, 10, 12, 14, &16)
- 1 Professional top tool chest-5 to 10 drawers
- 1 Professional rollaway tool cabinet 3 to 7 drawer with lock
- 1 Wire wheel brush (to use with drill motor)
- 1 Wire spark plug gap gauge
- 1 Chisel holder
- 1 Punch set (5/16" center punch, 1/4" starter punch, 3/16" & 5/16" pin punch)
- 1 Chisel set (3/8", 1/2" & 3/4")
- 1 Anti freeze tester
- 1 3/8" drive in/lb torque wrench (O to 50 in/lb)
- 1 External snap ring pliers
- 1 Internal snap ring pliers
- 1 Spark plug boot-removing pliers
- 1 Tire air chuck with aero fittings
- 1 Valve core-removing tool
- 1 Hack saw with assorted blades
- 1 Air blowgun with rubber tip and aero fittings
- 4 Files, 2 flat, 1 - 3/8" x 10" round, 1 - 3 cornered 10"
- 2 File handles
- 1 Pump oil can
- 1 Parts cleaning brush-nylon
- 1 Wire brush

Optional Tool List

- 1 Set 3/8" drive flex sockets (10mm to 17mm)
- 1 Pliers - 16" channelock type
- 1 Set 1/2" drive shallow six-point impact metric socket set (15mm to 22mm)
- 1 Fluke model 88 multimeter (upgrade of series 87)

1 Wire terminal tool kit (TT 600 Snap-On or similar)

1 3/8" Air ratchet

1 1/2" Impact wrench

1 Telescoping magnetic pick-up tool

1 O2 Sensor socket

1 3/4", 13/16", 19mm lug nut deep well sockets

1 32 or 48 oz Hammer

1 Pipe wrench