



REQUIRED TOOLS

Student Hand Tool Set Required Set for Auto 1210 – 1213 Engine Performance I – II (as of 2/19/08)

Socket Sets:

1/4 Inch Drive - Standard and Metric with Extensions and Ratchet

3/16 to 9/16 standard depth
3/16 to 9/16 deep or extended depth
5 mm to 15 mm standard depth
5 mm to 15 mm deep or extended depth

3/8 Drive - Standard and Metric with Extensions and Ratchet

5/16 to 7/8 standard depth
3/8 to 7/8 deep or extended depth
8 mm to 19 mm standard depth
8 mm to 19 mm deep or extended depth

1/2 Drive - Standard and Metric with Extensions and Ratchet and Breaker Bar

3/8 to 1 1/8 standard depth
3/8 to 1 1/8 deep or extended depth
12 mm to 24mm standard depth

Torx and Hex Set:

1/4 and 3/8 drive torx socket driver sets
T8 to T25 and T27 to T60
3/8 hex drive set
1/8 to 3/8
3/8 metric hex drive set
4mm to 10mm

Wrenches:

Combination wrench set standard 3/8 to 1"
Combination wrench set metric 9mm to 21mm
Flare nut wrench set 3/8 to 13/16
Flare nut wrench set 9mm to 21mm
Adjustable wrench 12"

Screwdrivers:

1/4" flat tip stubby
3/16" 1/4" 5/16" 3/8" flat tip
#2 Phillips, stubby
#1 #2 #3 Phillips tip

Pliers / Cutters:

Needle nose
Adjustable joint
Slip joint
Locking
Locking needle nose
Retaining ring convertible

Chisels / Punches:

3/16 center punch
3/32 5/32 3/16 pin punches
3/32 5/32 starter punches
3/8 1/2 5/8 flat chisels

Hammers:

20oz. Ball Peen
32oz dead blow
22oz brass

Pry Bars:

16" heal, line-up tool
24" flat chisel w/handle

Miscellaneous:

Claw type pickup tool
Inspection mirror
Magnetic pick-up tool
Gasket scraper
Metal ruler 1/32 graduated 6"
Tape rule 6'
Circuit tester 12 V
Hand scratch brush
Steel cup brush 1"
Flashlight
Feeler gauges

Safety Glasses Polycarbonate w/Side Shields OSHA approved:

Ear protection
Hacksaw w/blades
Valve core/stem tool
Brake adjustment tool
Brake return spring tool
Brake hold down spring tool
Tire pressure gauge
Tire tread depth gauge
DVOM, high impedance 10a fused A/C coupled

Soldering iron or gun
Tool storage box

In addition to the standard tool list above it is recommend by the Engine Performance instructor that each student also provide a set of five jumper leads.

**NOTE: Students shall furnish and maintain to industry standards:
2 shop uniforms or blue coveralls to be worn each day in the lab
class without exception.**

“Safety glasses” must be worn in the lab class without exception.

A variety of Engine Performance tools and test equipment are available from the SLCC parts store in the MFEC building ranging in price from \$5.00 to \$50.00. Ask the instructor for information on building your own test tools.

**THE COLLEGE CANNOT BE HELD LIABLE FOR TOOLS LOST OR
STOLEN. PLEASE TAKE ALL NECESSARY PRECAUTIONS TO
SECURE YOUR TOOLS.**