

PIEDMONT TECHNICAL COLLEGE

AUTOMOTIVE TECHNOLOGY

REQUIRED TOOL LIST

Safety Glasses:

- Safety Glasses (must be stamped with a Z 87 specification)

Tool Storage:

- Locking toolbox (Roll Cabinet/Cart) with at least three main drawers. Box must be able to lock and secure tools.

Allen Wrenches:

- Allen Wrench Set - Standard (.050" - 3/8")
- Allen Wrench Set - Metric (2mm - 7 mm)

Chisels and Punches:

- Chisels, various sizes
- Center Punch Pin, various sizes
- Brass Drift Punch

Files:

- Round
- Flat File

Combination Wrenches:

- Standard (1/4" - 1")
- Metric (7mm - 19mm)

Flare Nut Wrenches:

- Flare Nut (tubing) Wrenches:
- 3/8" - 3/4"
- 10mm - 17mm

Pliers:

- Combination 6" Pliers
- Side Cutting Pliers
- Locking Jaw Pliers
- Needle Nose 6" Pliers
- Slip Joint Pliers 6" to 8"
- Vise grip Pliers
- Hose Clamp Pliers
- Wire Stripping/Crimping Pliers

Pry Bars:

- Rolling Head
- Straight

Scrapers:

- Metal Gasket Scraper
- Plastic Gasket Scraper

Screwdrivers:

- Screwdriver - Blade Type: at least three, various sizes
- Screwdriver - Phillips Type - at least three, various sizes
- Screwdriver - Impact Driver Set

Socket Set - 1/4" Drive:

- 1/4" - 1/2" Standard Depth
- 1/4" - 10" Deep
- 6mm - 12mm Standard Depth
- 6mm - 12mm Deep
- Flex/Universal Type
- 3", 6" Extensions
- Ratchet – 1/4 Drive

Socket Set - 3/8" Drive:

- 5/16" - 3/4" Shallow Depth (6 pt)
- 3/8" - 3/4" Deep (6 pt)
- 9mm - 19mm Shallow
- 9mm - 19mm Deep
- Extension - 3"
- Extensions - 6"
- Extensions - 12"
- Extensions - 18"
- Ratchet - 3/8 Drive
- 3/8 Drive Flex - head Ratchet
- 3/8 Drive Speed Handle

Socket Set - 1/2" Drive:

- 7/16" - 1 1/8" Shallow Depth & Deep
- 10mm - 25mm Shallow Depth & Deep
- Extension - 3"
- Extensions - 6"
- Extensions - 12"
- Flex Handle (Breaker Bar)
- Ratchet – 1/2 Drive

Spark plug socket:

- 5/8" with protective inner sleeve, 3/8 drive

Feeler Gauges:

- Spark Plug Feeler Gauge (Gap Tool)
- .002 - .040 Feeler Gauge (Blade Type)
- .006mm - .070mm Feeler Gauge (Blade Type)

Torque Wrench

- 3/8" Drive (10 - 75 lb. ft.) Torque Wrench
- 1/2" Drive (50 - 250 lb. ft.) Torque Wrench

Torx

- Torx Bits T-8 - T-55 (10 pc. set)
- Tamper Proof Torx bit set
- Inverted Torx Sockets

Hammers:

- Brass Hammer
- Ball Peen Hammer
- Dead Blow Ball Peen Hammer
- Rubber Mallet Hammer
- Plastic Tip Hammer

Brake Tools:

- Brake Return Spring Tool
- Brake Hold Down Tool
- Piston Return Tool
- Brake Spoon

Battery / Electrical System Tools:

- Battery Post Cleaner
- Battery Terminal Wrench
- Fuse Puller
- Jumper Wire Set (with various adapters)
- Test Light (12V)
- Ignition Spark Tester
- Digital Volt Ohm Meter (DVOM)
 - Features should include:
Diode check function, continuity test, fused overload protection, and spare fuses.
(Optional features may include Hz and duty cycle measurement, Min/Max, and protective case)
 - Minimum Specifications:
Input impedance (10 mega ohms for DCV/ACV)
DC Volt accuracy: \pm 0.5% of reading
 - Range specifications:

AC/DC Voltage	200 mV	200 V
DC Amperage	200 mA	10 A
Resistance	200 Ohms	2 Mega ohms

Miscellaneous Tools:

- Inspection Mirror
- Magnetic Pickup Tool
- Air Chuck
- Tape Measure
- Tire Pressure Gauge
- Flashlight or Cordless Fluorescent Light
- Hacksaw with replacement blades
- Wire Brush
- Air Blow Gun (meeting OSHA requirements)
- Pick or pick set
- Tire Depth Gauge
- Oil Filter Wrenches, Small and Large Adjustable

Revised 4/25/2018