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 – ¼ 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 – ½ 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: ±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

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