The following sections of tools are necessary to provide the student with the proper gear to perform assigned hands-on repairs as each automotive class progresses. The tool list is broken down into components to cover the basic requirements and each individual class requirement.

Mott Community College Automotive Lab Does Not recommend any particular brand of tools or vendor. Each student is free to choose his/her own tools and source of supply.

Successful completion of the laboratory portion of each class is dependent on individuals having their own tools to perform the labs, in a timely fashion. The school does not supply basic hand tools to complete classes. Specialized tools are provided as needed by the instructor.

*Basic hand tools are NOT furnished*
### Basic Automotive Tool Set:
Required for **ALL AUTO Lab Classes**

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<tr>
<th>Item</th>
<th>Sizes/Specifications</th>
<th>Type</th>
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| **3/8 Drive Socket Set**          | 5/16” – 7/8”  
10mm – 19mm  
5/8” Spark Plug Socket  
Ratchet  
Socket Extensions | U.S. Standard Metric  
3” and 6” |
| **Combination Wrench Set**        | 3/8” to 1”  
8mm – 19mm | U.S. Standard Metric |
| **Screwdrivers**                  | #1 & #2  
4” & 8” | Phillips Standard |
| **Punch and Chisel**              | Center Punch  
Starter Punch (Tapered)  
¼” & 1/8” Drift Punch  
3/8” Chisel & Flat  
5/8” Chisel & Flat | |
| **Adjustable Joint Pliers**       | 2 ½” Opening | |
| **Standard Pliers**               | 6” | |
| **Needle Nose Pliers**            | 8” | |
| **Side Cutting Pliers**           | 8” | |
| **Hex Key Wrench Set**            | .028 – 3/8”  
1.5mm – 6mm | U.S. Standard Metric |
| **Ball Peen Hammer**              | 32 ounce or larger | |
| **Plastic Hammer**                | 16 ounce | |
| **Vice Grip Pliers**              | 8” – 10” | |
| **Safety Glasses**                | Z-87 | |
| **Tool Box - Portable**           | Roll type cabinet **NOT** recommended | |
| **Tape Measure**                  | 25’ | |
| **Air Chuck**                     |  | |
| **Blow Gun with Rubber Tip**      |  | |
| **Tire Gauge**                    |  | |
| **Feeler Gauge**                  |  | |
| **Gasket Scraper**                | (Putty Knife) | |
| **Digital Volt-Ohm Meter (DVOM)** | CAT III w/Min/Max  
1000 Volt Craftsman Pro Series | |
| **Test Light**                    | 12 volts | |
| **Flash Light**                   | Pen light | Pocket size |
### Ignition & Fuel Systems
*(Additional to Basic Set)*
- Line Wrenches: 14mm – 18mm
- Adjustable Wrench: 1” opening minimum
- Spark Plug Simulator
- Noid Light Set
- Pliers
- Crimping & Stripping

### Tune-up
*(Optional)*
- Vacuum/Pressure Gauge
- Compression Tester

### Brakes
*(Additional to Basic Set)*
- Star Wheel Adjuster
- Retainer Spring Remover
- Brakes Spring Pliers
- Torx Sockets – 3/8” T30 – T60
- Hex (Allen) Socket – 3/8” 3/8”
- Bleeder Wrenches
- Line Wrenches: 8mm – 10mm
- 10mm – 14mm

### Electrical Systems (AUTO-262)
*(Additional to Basic Set)*
- 1/4” Drive Socket Set w/ Extensions & Ratchet
- U.S. & Metric 3/16” – 9/16” (6 pt)
- 5.5mm – 13mm (6 pt)
- 1/4” Drive
- Crimping & Stripping

### Engine Theory & Repair
*(Additional to Basic Set)*
- 1/2” Drive Socket Set
- Torque Wrench
- Metric 10mm-19mm Ratchet, Extensions
- Breaker Bar
- 1/2” Beam or Ratchet

### Air Conditioning & Heating
*(Additional to Basic and Electrical Sets)*
- 1/4” Drive Socket Set w/ 1/4” Drive Handle
- DVOM - AC Temp Probe
- 5.5mm – 13mm (6 pt)

### Transmission & Drivelines
*(Additional to Basic Set)*
- Snap Ring Pliers
- Brass Drift Punch
- Pick Set
- Flat & Needle Tip Diameter 1/2” – 3/4”

### Suspension & Alignment
*(Additional to Basic Set)*
- 1/2” Drive Socket Set
- (Impact optional)
- Metric 10mm-19mm