

Student Tool List

Automotive Technology

Regional Technology Center

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 requirements*.

Mott Community College Automotive Lab <u>Does Not</u> 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 <u>ALL AUTO Lab Classes</u>

10mm - 19mm Metric	3/8 Drive Socket Set	5/16" - 7/8"	U.S. Standard
Ratchet Socket Extensions 3" and 6" Combination Wrench Set 3/8" to 1" 8mm – 19mm Metric Screwdrivers #1 & #2 Phillips 4" & 8" Standard Punch and Chisel Center Punch Starter Punch (Tapered) %" & 1/8" Drift Punch 3/8" Chisel & Flat 5/8" Chi		10mm – 19mm	Metric
Socket Extensions 3" and 6" Combination Wrench Set 3/8" to 1" U.S. Standard Metric Screwdrivers #1 & #2 Phillips 4" & 8" Standard Punch and Chisel Center Punch Starter Punch (Tapered) 4" & 1/8" Drift Punch 3/8" Chisel & Flat 5/8" Chisel &			
Screwdrivers9mm - 19mmMetricScrewdrivers#1 & #2 4" & 8" StandardPhillips StandardPunch and ChiselCenter Punch Starter Punch (Tapered) 4" & 1/8" Drift Punch 3/8" Chisel & Flat 5/8" Chisel & Flat 5/8" Chisel & FlatAdjustable Joint Pliers2 ½" OpeningStandard Pliers6"Needle Nose Pliers8"Side Cutting Pliers8"Hex Key Wrench Set.028 – 3/8" 1.5mm – 6mmU.S. Standard MetricBall Peen Hammer32 ounce or largerPlastic Hammer16 ounceVice Grip Pliers8" – 10"Safety GlassesZ-87Tool Box - PortableRoll type cabinet NOT recommendedTape Measure25'Air ChuckBlow Gun with Rubber TipTire GaugeFeeler GaugeGasket Scraper(Putty Knife)Digital Volt-Ohm Meter (DVOM)CAT III w/Min/Max1000Volt Craftsman Pro SeriesTest Light12 volts			3" and 6"
Screwdrivers #1 & #2	Combination Wrench Set		
A" & 8" Punch and Chisel Center Punch Starter Punch (Tapered) X" & 1/8" Drift Punch 3/8" Chisel & Flat 5/8" Chisel & Flat 4 Chisel & Flat 5/8" Chisel & Flat 5/8" Chisel & Flat 5/8" Chisel & Flat 6" Adjustable Joint Pliers 6" Needle Nose Pliers 8" Needle Nose Pliers 8" Side Cutting Pliers 8" Hex Key Wrench Set 1.5mm – 6mm Metric Ball Peen Hammer 32 ounce or larger Plastic Hammer 16 ounce Vice Grip Pliers 8" – 10" Safety Glasses 7-87 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		8mm – 19mm	Metric
Punch and Chisel Center Punch Starter Punch (Tapered) K" & 1/8" Drift Punch 3/8" Chisel & Flat 5/8" Chisel & Flat 6" Needle Nose Pliers 8" Needle Nose Pliers 8" Lo28 – 3/8" Lo29 – 3/8" Lo	Screwdrivers		·
Starter Punch (Tapered) %" & 1/8" Drift Punch 3/8" Chisel & Flat 5/8" Chisel & Flat 5/8" Chisel & Flat 5/8" Chisel & Flat 2 %" Opening Standard Pliers 6" Needle Nose Pliers 8" Side Cutting Pliers 8" Hex Key Wrench Set 1.028 – 3/8" 1.5mm – 6mm Metric Ball Peen Hammer 32 ounce or larger Plastic Hammer 16 ounce Vice Grip Pliers 8" – 10" Safety Glasses 2-87 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	D l d Obited		Standard
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Adjustable Joint Pliers 2 ½" Opening Standard Pliers 6" Needle Nose Pliers 8" Side Cutting Pliers 8" Hex Key Wrench Set .028 – 3/8" 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 1028 — 1000 Volt Craftsman Pro Series			
Standard Pliers Needle Nose Pliers 8" Side Cutting Pliers 8" Hex Key Wrench Set .028 - 3/8" 1.5mm - 6mm 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		5/8" Chisel & Flat	
Needle Nose Pliers 8" Side Cutting Pliers 8" Hex Key Wrench Set .028 – 3/8" 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	Adjustable Joint Pliers	2 ½" Opening	
Side Cutting Pliers 8" Hex Key Wrench Set .028 – 3/8" 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	Standard Pliers	6"	
Hex Key Wrench Set .028 – 3/8" 1.5mm – 6mm 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	Needle Nose Pliers	8"	
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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	Hex Key Wrench Set	·	
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			Metric
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		_	
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	Plastic Hammer		
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	Vice Grip Pliers	8" – 10"	
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	Safety Glasses	Z-87	
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	Tool Box - <u>Portable</u>		
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	Tape Measure	25'	
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	Air Chuck		
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	Blow Gun with Rubber Tip		
Gasket Scraper (Putty Knife) Digital Volt-Ohm Meter (DVOM) CAT III w/Min/Max 1000 Volt Craftsman Pro Series Test Light 12 volts	Tire Gauge		
Digital Volt-Ohm Meter (DVOM)CAT III w/Min/Max1000 Volt Craftsman Pro SeriesTest Light12 volts	Feeler Gauge		
Test Light 12 volts	Gasket Scraper	(Putty Knife)	
	Digital Volt-Ohm Meter (DVOM)	CAT III w/Min/Max	1000 Volt Craftsman Pro Series
Flash Light Pen light Pocket size	Test Light	12 volts	
	Flash Light	Pen light	Pocket size

Ignition & Fuel Systems (Additional to Basic Set)			Tune-up (Optional)		
Line Wrenches	14mm – 18mm	Vacuum/Pressure Gauge	Vacuum/Pressure Gauge		
Adjustable Wrench	1" opening minimum	Compression Tester	Compression Tester		
Spark Plug Simulator					
Noid Light Set					
Pliers	Crimping & Stripping				
D	-l	Floatsiaal Coata	(AUTO 262)		
Brakes		Electrical Systems (AUTO-262)			
(Additional to Basic Set)		· · · · · · · · · · · · · · · · · · ·	(Additional to Basic Set)		
Star Wheel Adjuster		1/4" Drive Socket Set w/			
Retainer Spring Remover		Extensions & Ratchet	3/16" – 9/16" (6 pt)		
Brakes Spring Pliers			5.5mm – 13mm (6 pt)		
Torx Sockets – 3/8"	T30 – T60	Nut Driver Handle	1/4" Drive		
Hex (Allen) Socket – 3/8"	3/8"	Pliers	Crimping & Stripping		
Bleeder Wrenches	8mm – 10mm				
Line Wrenches	10mm – 14mm				
Engine Theory & Repair		Air Condition	Air Conditioning & Heating		
(Additional to Basic Set)		(Additional to Basic and Electrical Sets)			
1/2" Drive Socket Set	Metric 10mm-19mm	1/4" Drive Socket Set w/	5.5mm – 13mm (6 pt)		
·	Ratchet, Extensions	1/4" Drive Handle			
	Breaker Bar	DVOM - AC Temp Probe			
Torque Wrench	1/2" Beam or Ratchet				
			0.41		
Transmission & Drivelines		Suspension & Alignment			
(Additional to Basic Set)		<u> </u>	to Basic Set)		
Snap Ring Pliers	Flat & Needle Tip	1/2" Drive Socket Set	(Impact optional)		
Brass Drift Punch Pick Set	Diameter 1/2" – 3/4"		Metric 10mm-19mm		