

SIUC AUTOMOTIVE TECHNOLOGY

Required Tools List

On the first day of automotive classes, each student is required to have an automotive tool set that includes:

General

1. Safety glasses * (must be stamped with a Z 87 specification). Prescription glasses should have impact resistant lenses & side shields.
2. Locking toolbox (Roll Cabinet/Cart) with at least three main drawers
3. Metric/English 6" steel rule (mm & 64ths graduations) *
4. Soft face hammer
5. Ball peen hammer, 24-32 oz.
6. Punch and chisel set (at least 9 piece)
7. Blade type feeler gauge (.0015 - .035)
8. Pick or Pick set *
9. Pickup magnet
10. Inspection mirror
11. Tire pressure gauge
12. Tire air chuck (Note: The Automotive Department uses the Milton 777 air adapter for all labs. This adapter is available from the SIUC Automotive Parts Store *)

Wrenches

14. Metric hex key sets (at least 10 piece set)
15. Metric combination wrenches, 6mm thru 19mm

Sockets

16. 1/4" drive ratchet, extension bars & driver handle
17. 1/4" drive, shallow sockets, 6mm thru 13mm
18. 1/4" drive, deep sockets, 6mm thru 13mm

19. 3/8" drive ratchet, extensions, & universal joint
20. 3/8" drive, shallow sockets, 9mm thru 19mm
21. 3/8" drive, deep sockets, 9mm thru 19mm

22. 1/2" drive ratchet, extensions, universal joint, & breaker bar
23. 1/2" drive, deep sockets, 10mm thru 19mm

24. Spark plug socket, 5/8" with protective inner sleeve, 3/8" drive. (extra length preferred)
25. Torx T-10 to T-50, (tamper-proof suggested)

Screwdrivers

26. At least 3 Slotted
27. At least 3 Phillips

Pliers

28. Slip joint pliers, 6" to 8"
29. Diagonal cutters, 6" to 8"
30. Long nose pliers, 6" to 8"
31. Arc joint pliers, 9" to 10" (Channel Lock)
32. Vise grip pliers, 8" to 10"
33. Brake spring pliers

see other side

Electrical

34. Jumper wires *
35. 12 volt test light (not high impedance) *
36. T-pins (Typically available in sewing or craft department of discount stores) *
37. Adjustable (or electronic high energy) ignition spark tester *
38. Spark plug gauge (wire type) with sizes through .080"
39. Digital Multimeter

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

Meters meeting or exceeding above specifications can be found at:

Radio Shack
Craftsman/Sears
Snap-on Tools
Matco Tools

Optional Items:

1. Hacksaw with replacement blades
2. Dial caliper, 6" metal, .001 accuracy
3. 18mm spark plug socket
4. Metal gasket scraper
5. Plastic gasket scraper
6. Double end brake bleeder wrenches, sizes 3/8"-5/16" and 8mm-10mm
7. Rubber tip air nozzle (blow gun)
8. Tire tread depth gauge
9. Standard hex key sets (at least 10 piece set)
10. Standard combination wrenches, 1/4" thru 1"
11. 1/4" drive, shallow sockets, 3/16" thru 1/2"
12. 1/4" drive, deep sockets, 3/16" thru 1/2"
13. 3/8" drive, shallow sockets, 3/8" thru 13/16"
14. 3/8" drive, deep sockets, 3/8" thru 13/16"
15. 1/2" drive, shallow sockets, 1/2" thru 1"
16. Chain or cable (5'-6') with lock to secure toolbox within shop building

The SIUC Automotive Parts Store can assist in obtaining student discounts with various tool vendors. In addition, the on campus parts store stocks many of the specialty items listed above.

**Southern Illinois University Carbondale
Automotive Technology**

MAC TOOLS

Student discounted price for the entire package (excluding taxes): \$1514.52. Free Shipping. Prices are subject to change. All applicable contract terms and conditions apply. Tool delivery takes 6 to 8 weeks. *Early orders are encouraged.* Contact for MAC Tools:

**Bob Zubik, MAC Tools Cell 708-937-5325
Bid Number: 1750-B-2012 Fax 614-755-7177
(Reference when placing order)**

Students must pick up their tools from the parts store at the TEC campus. Additional telephone inquiries concerning MAC Tools purchases may be directed to Cay Gerlock, SIU Automotive Parts Manager at 618.453.9142.

NOTE: YOU WILL NEED YOUR TOOLS BY THE FIRST DAY OF SCHOOL.

1/4" Dr. Metric Socket Set, 6pt (20pc)	SMM206BR	Safety Glasses	S4500
1/4" Dr. Extension, 2" long	M2EK	Slip Joint Pliers, 8"	P28A
1/4" Dr. Extension, 6" long	M6EK	Straight Jaw Vise Grip, 10"	VG10RB
3/8" Drive Metric Socket Set, 6pt (19pc)	SXM196BR	Long Nose Pliers, 6"	M326G
1/2" Drive Metric Knurl Ratchet, 11"	VR11K	Arc Joint Pliers, 10"	M430G
1/2" Universal Joint	V3U	Brake Spring Pliers	BSP4590P
1/2" Flex Handle, 18"	V18SF	Curved Diagonal Pliers, 7 3/4"	M447G
1/2" Drive Extension, 3"	V3E	Punch and Chisel Set w/ handle	PCS1000K
1/2" Drive Extension, 5"	V5E	Mini Pick Set, 4 pc	PSM4
1/2" Drive Metric Deep Socket Set, 6pt (10pc)	SVDM106TR	Magnetic Pick Up	MHT1
1/2" Drive Spark Plug Socket, 5/8"	SC179RA	Multi Meter	EM710
Tamper Proof Torx Set, 12 pc	ST12HB	Telescoping Mirror	MHTE2
Universal Feeler Gauge Set, 25 blade	FG002	Pencil Tire Gauge, 2-120psi	TG110
Spark Plug Gap Gauge w/ handle	FG4450	Locking Straight On Chuck	TG400
Ball Peen Hammer, 24 oz	BH24AV	Metric Ratchet Wrench Set, 12pc	SRWM212K
Hex L-wrench Set, 9pc	SHKM9APA	Adjustable Ignition Spark Tester	ET96019
Screwdriver Set, 6 pc	SDRB24APT	6/12 V Circuit Tester	ET125D
Soft Faced Hammer, 16oz	SFHF13	7 Drawer Roll Cabinet	MB4220B
Machinist Rule, 6"	MPR6		

Note: This offer doesn't include the Jumper Wire Kit or T-pins sold at the SIU Automotive Parts store.

Make money order or check payable to: MAC Tools.

Please do not send credit card numbers via the internet.

If paying by credit card, you will be charged for items when they ship. If any items are on backorder or ship from different warehouses, you will be charged for them as they ship. This may result in multiple charges to your card.

Fax to: 614-755-7177 or e-mail to MTDE@stanleyworks.com (if PO only)

Please include bid # and applicable sales tax.

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SNAP ON TOOLS

Student discounted price for the entire package: \$2252.10. PRICES ARE SUBJECT TO CHANGE.

Make money order or check payable to: Snap On Tools. Tool delivery takes 6 to 8 weeks. *Early orders are encouraged.* Include student's name in memo portion of check or M.O. and send to:

Tom Riffey, Snap-On Industrial
10367 N. 22nd Ave.
Harvel, IL 62538

Fax 217-229-3183
Cell 314-443-6233

Students must pick up their tools from the parts store at the TEC campus. Additional inquiries concerning Snap-On Tool purchases may be directed to Cay Gerlock, SIU Automotive Parts Manager at 618-453-9142.

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9100AGMO:

1/4" Dr. Metric Starter Set (17pc)
1/4" Dr. Extension, 6" long
1/4" Dr. Metric Deep Skt. Set, 6- Point (12pc)
3/8" and 1/4" Dr. Torx Driver set (12pc)
3/8" Dr. Sealed Ratchet
3/8" Dr. Flex Head Sealed Ratchet
3/8" Drive Adaptor Set
3/8" Drive Extension, 11"
3/8" Drive Metric Socket Set, 6pt (12pc)
3/8" Drive Metric Deep Socket Set.
1/2" Drive Metric Gen. Service Set, 6 pt (17pc)
Metric Combination Wrench Set, 12pt (10pc)
Metric Flare Nut Wrench Set, 6pt (6pc)
Metric Hex Wrench Set (11pc)
Pliers/Cutters (3pc)
Adjustable Point Pliers
Needle Nose Pliers
Locking Pliers, 10" long
Wire Stripper/Cutter Pliers
Prybar, 16" long
Punch and Chisel Set, (11pc)
Plastic Tip Hammer
Ball Peen Hammer, 16 oz
Hacksaw
Ignition/Spark Plug Gauge Set, 18 blades
Metric Feeler Gauge Set, 20 blades
Feeler Gauge Set, 6 blades
Gapper Gauge
Mirror
Telescopic Pick Up Tool
Carbon Scraper
Scraper
Circuit Tester

Battery Service Kit, (4 pc)
Radiator Hose Tool
Wire Brush
Square Dr. Adapter
Standard Shank Driver
Hex Wrench Set, L shaped (10pc)
Combination Screwdriver Set
Ratcheting Magnetic Screwdriver
Miniature Awl/Pick Set
Spark Plug Retention Socket, 6 pt 13/16"
Spark Plug Retention Socket, 6 pt 5/8"
Retaining Ring Pliers, Convertible
Metric Tape Rule, 5 M
Adjustable Wrench, Cushion Handle 12"
Pliers, Retaining Ring, Convertible
Telescopic Pick-up Tool
Wire Stripper with Cutter
Flare Nut Wrench Set, 3/8" -13/16"
Spark Plug Socket, 13/16", 3/8" Drive
Spark Plug Socket, 5/8", 3/8" Drive
Screwdriver Set
Screwdriver, Ratcheting
Long Shank Drive, 1/4" Drive
Extension 1/4" Drive, 6"
Pliers, Locking
Tape Measure
1/4" Drive, Deep Metric Socket Set
1/4" Drive, Metric Starter Set
1/2" Drive General Metric Service Socket Set
Feeler Gauges, 3
Feeler Gauge, Metric
Extension 3/8" Drive, 12"
Metric Flare Nut Wrench Set, 9-21mm

KRA2007FPBO

Roll Cab, 7 Drawers, Red – included in price (subject to change)

EEDM503D

Multi Meter Manual Ranging

This offer doesn't include: Jumper Wire Kit, 6" Ruler, or T-pins sold at the SIU Parts store.

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Fastenal

Student discounted price for the entire package: \$1951.42. PRICES ARE SUBJECT TO CHANGE.

Make money order or check payable to: Fastenal. Tool delivery takes 6 to 8 weeks. *Early orders are encouraged.*

Include student's name in memo portion of check or M.O. and send to:

**Jackie Gray , Fastenal
317 E. Main St
Carbondale, IL 62901**

**Fax 618-457-8799
Phone 618-457-0035**

Students must pick up their tools from the parts store at the TEC campus. Additional telephone inquiries concerning Fastenal Tool purchases may be directed to Cay Gerlock, SIU Automotive Parts Manager at 618-453-9142.

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Black Frame Clear Lens Eyewear	0281438	3/8" Drive 6" Extension	0257916
7 Drawer Roll Cabinet	0220017	3/8" Drive Universal Joint	0257846
6" Stainless Steel Rule	0245742	3/8" Drive Metric Socket Set, 14 piece 6pt	0257847
12 oz Softface Hammer	0224609	3/8" Drive Metric Deep Socket Set, 14 piece	0257848
32 oz Ball Pein Hammer	0224602	1/2" Drive Ratchet	0227548
Punch and Chisel Set, 12 piece	0224613	1/2" Drive 5" Extension	0227550
Deluxe Feeler Gauge	0245714	1/2" Drive 10" Extension	0257931
Hook and Pick Set, 7 piece	0233587	1/2" Drive Universal Joint	0227485
Inspection Mirror	0267364	1/2" Drive 15" Breaker Bar	0207882
Pick-up Tool	0267365	1/2" Drive Metric Deep Socket Set, 10 piece	0257869
Tire Pressure Gauge	11580-00234	3/8" Drive 5/8" Spark Plug Socket	0257748
Hex Key Set, Long Arm 15 piece	82827	Torx Bit Socket Set, 13 piece	0257873
Metric Wrench Set, 15 piece	0257999	Combination Screwdriver Set, 12 piece	0257631
Combination Wrench, 6mm	0220796	8" Slip Joint Plier	0227625
Combination Wrench, 7mm	0223491	7" Diagonal Cutting Plier	0227623
1/4" Drive Ratchet	0257884	8" Long Nose Plier	0227624
1/4" Drive 3" Extension	0256905	9 1/2" Tongue and Groove Plier	0227622
1/4" Drive 6" Extension	0256907	10" Straight Jaw Locking Plier	0266227
1/4" Drive Spinner Handle	0238694	Heavy Duty Circuit Tester	0267839
1/4" Drive Metric Socket Set, 13 piece 6pt	0257740	HEI Ignition Tester	0245717
1/4" Drive Metric Deep Socket Set, 13 piece	0257742	Deluxe Feeler Gauge	0245714
3/8" Drive Ratchet	0257913	Fluke 77-4	0712581
3/8" Drive 3" Extension	0257915	Clear/Black Tomahawk Safety Glasses	0281438

Note: This offer does not include the following: Jumper Wire Kit or T-pins sold at the SIU Parts store.

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NAPA Tool Set

A sales representative of NAPA auto parts has offered NAPA hand tools listed below for about \$1477, tax and shipping included. PRICE IS SUBJECT TO CHANGE. This set can be tailored to suit your needs. Items you may already have can be omitted, and additional tools may be included. Total cost will be adjusted accordingly.

Sales contact is: NAPA Auto Parts
 Josh Stroud, District Manager
 Ph# (618)924-1096
 Email: jstroud@voglerford.com

Students must pick up their tools from the Automotive Parts Store at the Tec Campus. Telephone inquiries concerning NAPA hand tools may be directed to C.a.y. Gerlock, Parts Manager at (618)453-9142 or the sales rep listed above.

Note: This offer does not include the following: Jumper wire kit or T-pins sold at the SIU Parts store, or the optional chain/cable lock to secure tools within the lab.

YOU WILL NEED YOUR TOOLS BY THE FIRST DAY OF SCHOOL.

1/4" Sockets and Drive tools

3" Extention
 Ratchet

Six Point Metric Sockets

6mm-13mm

Six Point Metric Deep Sockets

6mm-13mm

Pliers

8" Slip Joint
 10" Rib Lock
 8" Long Nose
 7" Vise Grip
 Brake Spring
 7" Diagonal

Screwdrivers

1/4"x4" Square Blade
 1/4"x6" Square Blade
 1/4"x8" Square Blade
 #1x3" Phillips
 #2x4" Phillips
 #3x6" Phillips

3/8" Sockets and Drive Tools

3" Extention Ratchet
 6" Extention Uni Joint

Six Point Metric Sockets

9mm-19mm

Six Point Metric Deep Sockets

9mm-19mm

Punches and Chisels

4pc. Chisel Set
 3/8"x5" Center Punch
 1/8"x5x5/16" Pin Punch
 3/16"x5-1/2"x5/16" Punch
 3/16"x9"x1/2" Long Taper
 5/32"x5"x3/8" Taper

1/2" Sockets and Drive Tools

6" Extention Uni Joint
 15" Flex Ratchet

12 Point Metric Sockets

10mm-19mm

Metric Combination Wrenches

6mm-19mm

Misc. Tools

Metric Hex Keys Fluke Multi
 24oz. Ball Pen Hammer Torx Set
 Soft Face Hammer Pickup Mag
 Test Light Pick Set
 Feeler Gauge Inspect Mirror
 Saftey Glasses Tire Gauge
 Spark Plug Gap Tool Cart
 6" Steel Ruler

**All NAPA Hand Tools have a LIFETIME WARRANTY.
 And can be replaced at any of our four local stores.
 Carbondale 549-5700 Murphysboro 565-2200
 Marion 993-2100 Herrin 942-6602**