

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 (top chest type) 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 * (Available at the Parts Center at the TEC, can be purchased the first week of classes)
35. 12 volt test light* (not high impedance)
36. Push pins size 24 (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:

Fluke (Examples: Fluke 88IV or Fluke 88V Automotive)
Snap-on Tools (Example EEDM504F)
Mac Tools (Example EM721)

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. Brake spring pliers
8. Rubber tip air nozzle (blow gun)
9. Tire tread depth gauge
10. Vise grip pliers, 8" to 10"
11. Standard hex key sets (at least 10 piece set)
12. Standard combination wrenches, 1/4" thru 1"
13. 1/4" drive, shallow sockets, 3/16" thru 1/2"
14. 1/4" drive, deep sockets, 3/16" thru 1/2"
15. 3/8" drive, shallow sockets, 3/8" thru 13/16"
16. 3/8" drive, deep sockets, 3/8" thru 13/16"
17. 1/2" drive, shallow sockets, 1/2" thru 1"

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**

Fastenal



Student discounted price for the entire package: **\$1772.35**.
 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:

Erica Hallman, 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.

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

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	0957955	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	2105085
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	2121423	1/2" Drive Metric Deep Socket Set, 10 piece	0257869
Tire Pressure Gauge	5120639	3/8" Drive 5/8" Spark Plug Socket	0257748
Hex Key Set, Long Arm 15 piece	99074798	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	2105068	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	2161704
1/4" Drive Spinner Handle	0238694	Heavy Duty Circuit Tester	0246304
1/4" Drive Metric Socket Set, 13 piece 6pt	0257740	HEI Ignition Tester	0245717
1/4" Drive Metric Deep Socket Set, 13 piece	0257742	Fluke 77-4	0712581
3/8" Drive Ratchet	2105077		
3/8" Drive 3" Extension	0257915		

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

**Southern Illinois University Carbondale
Automotive Technology**

Grainger Tool Set



Student Discounted Tool Offering: \$2110.19 (Prices Subject to Change*)

Checks & Credit Card Accepted (Please provide Student's name and checks payable to Grainger)

Tool delivery time: 1 Week (Early orders are encouraged)

Rocio Martinez, Government Account Relationship Manager

Work: 847-753-5404

Email: Rocio.Martinez@grainger.com

Students must pick up tools from SIUC Parts Store. Additional questions concerning Grainger purchases may be directed to Grainger rep above or Cay Gerlock, SIU Automotive Parts Manager. (618.453.9142)

Note: This offer doesn't include the Jumper Wire Kit or Push Pins sold at SIU Automotive Parts Store.

Safety Glasses	Tool Chest	Digital Multimeter
¼" Drive Socket Set, 29 pc	3/8" Drive Socket, Set 32 pc	½" Drive Socket Set, 17 pc
Soft Face Hammer 12 oz	Ball Peen Hammer 24 oz	Punch & Chisel Set 12 pc
6" Ruler	Feeler Gauge Set 25 pc	Pick Set 2 pc
Magnetic Pickup	Inspection Mirror 30"	Tire Press Gauge 10-75 psi
Ball Foot Air Chuck 0-150psi	Hex key Set 1.5-8mm L-Shaped	Metric Wrenches, 7-21mm
Spark Plug Socket Set, 5/8"	Torx Sockets, T10-T50	Screwdriver Set, 8pc(4 slot, 4 phil)
Slip Joint Pliers, 6 ½" & 9 ½"	Diagonal Cutter, 6" & 8"	Long Nose Pliers, 6" & 8"
Arc Joint Pliers, 6 ½" & 9 ½"	Vice Grip Pliers, 9" & 10"	Brake Spring Pliers
Circuit Tester, 18/24/36v	Spark Tester	Spark Plug Gauge, wire type

Southern Illinois University Carbondale
Automotive Technology
Mac Tools



Free Shipping

Required Student discounted price: (Bid 11475-1) \$2284.16
 Optional Tool Set discounted price: (Bid 11474-2) \$733.95
 Sales Tax not included. Prices subject to change.

All applicable contract terms and conditions apply.
 Tool Delivery takes 6 to 8 weeks. *Early orders are encouraged*

Mac Tools Student Tech E-mail mac.studenttech@sbdinc.com
 (Reference Bid # when placing order) 1-800-622-8665 Option #6

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: The offer below doesn't include the Jumper Wire Kit or Push Pins sold at the SIU Automotive Parts Store.

Required Automotive Tool List (Bid # 11475-0)

Workstation, 27" Edge-GEN2	Digital Multimeter	Brake Spring Pliers
Pocket Ruler, 6"	Safety Glasses, Black Clear Lens	3/12v Circuit Tester
Adjustable Spark Tester	24 oz Ball Peen Hammer	Long Nose Pliers 8"
Feeler Gauge Set, 25 Bld	Soft Face Hammer	Groove Joint Pliers, 10"
Slip Joint Pliers, 6 1/2"	Diagonal Cutting Pliers 7"	Curved Jaw Pliers w/ Cutter 10"
Metal Ratchet, 1/4" drive 5"	Metal Ratchet, 3/8" drive 7"	Metal Ratchet, 1/2" drive 11"
Spin Handle, 1/4" drive	Universal Joint, 3/8" drive	Universal Joint, 1/2" drive
Extension, 1/4" drive 2"	Extension, 3/8" drive 3"	Extension, 1/2" drive 3"
Extension, 1/4" drive 6"	Extension, 3/8" drive 6"	Extension, 1/2" drive 5"
Metric Skt Set, 1/4" drive 12 pc	Metric Skt Set, 3/8" drive 14 pc	Flex Handle, 1/2" drive 18"
Deep Skt Set, 1/4" drive 12 pc	Deep Skt Set, 3/8" drive 14 pc	Deep Skt Set, 1/2" drive 10 pc
M A Style Plug, 1/4"	Female NPT Single Chuck	Radial Tire Gauge 12-48 PSI
Spark Plug Gauge, 6 Wire	Pickup Tool, 3.5/5 LB	Telescoping Mirror, 2 1/4" round
Punch and Chisel Set, mini 12 pc	Pick Set, mini 4 pc	Spark Plug Socket, 5/8" Deep
Wrench Set, Combo 14 pc metric	Screwdriver Set, 8 pc	Hex key Set w/ case, 9 pc Metric
	Torx Driver Set, Tmprpfr 12 pc	

Optional Automotive Tool List (Bid # 11474-1)

Blow Gun	EX Scraper	Combo Wrench, 1"
Dial Caliper 0-6"	Compact Hacksaw	Bi-Metal Blade, (10) 12" 24 Tooth
Bleeder Wrench, 5/16" x 3/8"	Bleeder Wrench, 8mm x 10mm	Combo Wrench Set, SAE 14 pc
Hex key Set w/ case, 13 pc SAE	Skt Set, 1/4" drive 12 pc SAE	Deep Skt Set, 1/4" drive 12 pc SAE
Skt Set, 1/2" drive 15 pc, SAE	Skt Set, 3/8" drive 12 pc, SAE	Deep Skt Set, 3/8" drive 12pc SAE
Short Blade Scraper	Tire Thread Depth Gauge	Spark Plug Socket, 18mm

**Southern Illinois University Carbondale
Automotive Technology**

SNAP ON TOOLS



Student discounted price for the entire package: \$3020.81

(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:

Zach Collins, Snap-On Industrial

Cell 217-259-1186

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

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9100AGMO:

¼" Dr. Metric Starter Set (17pc)
¼" Dr. Extension, 6" long
¼" Dr. Metric Deep Skt. Set, 6- Point (12pc)
¾" and ¼" Dr. Torx Driver set (12pc)
¾" Dr. Sealed Ratchet
¾" Dr. Flex Head Sealed Ratchet
¾" Drive Adaptor Set
¾" Drive Extension, 11"
¾" Drive Metric Socket Set, 6pt (12pc)
¾" Drive Metric Deep Socket Set.
½" 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, ¼" Drive
Extension ¼" Drive, 6"
Pliers, Locking
Tape Measure
¼" Drive, Deep Metric Socket Set
¼" Drive, Metric Starter Set
½" 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)

EEDM504F

Multi Meter Manual Ranging

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

Southern Illinois University
Automotive Technology
Napa Tool Set

A sales representative of NAPA auto parts has offered NAPA hand tools listed below for about \$1545.00, 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 Technology Parts Store at the Auto Tech 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 Push Pins sold at the SIU Parts Store

YOU WILL NEED YOUR TOOLS BE THE FIRST DAY OF SCHOOL

<u>1/4" Sockets and Drive Tools</u>	<u>3/8" Sockets and Drive Tools</u>	<u>1/2" Sockets and Drive Tools</u>
3" Extension	3" Extension	6" Extension
Ratchet	Ratchet	Ratchet
<u>Six Point Metric Sockets</u>	6" Extension	15" Flex
6mm-13mm	Universal Joint	Universal Joint
<u>Six Point Metric Deep Sockets</u>	<u>Six Point Metric Sockets</u>	<u>Twelve Point Metric Sockets</u>
6mm-13mm	9mm-19mm	6mm-19mm
	<u>Six Point Metric Deep Sockets</u>	
<u>Pliers</u>	9mm-19mm	<u>Punches and Chisels</u>
8" Slip Joint		4pc. Chisel Set
8" Long Nose	<u>Misc. Tools</u>	1/8"x5x5/16" Punch
7" Vise Grip	Metric Hex Keys	3/16"x5 1/2"x5/16" Punch
7" Diagonal	24oz. Ball Peen Hammer	3/16"x9"x1/2" Long Taper
Brake Spring Pliers	Soft Face Hammer	5/32"x5"x3/8" Taper
	Test Light	3/8"x5" Center Punch
<u>Screwdrivers</u>	Feeler Gauge	
1/4"x4" Flat	Safety Glasses	<u>Misc. Tools</u>
1/4"x6" Flat		Spark Plug Gap
1/4"x8" Flat	<u>Metric Combination Wrenches</u>	6" Steel Ruler
#1x3 Phillips	6mm-19mm	Torx Set
#2x4" Phillips		Pick-up Magnet
#3x6" Phillips	<u>Tool Cart</u>	Pick Set
		Inspection Mirror
	<u>Fluke Multimeter</u>	Tire Gauge

