

THADDEUS STEVENS AUTOMOTIVE TECHNOLOGY PROGRAM REQUIRED TOOLS ESTIMATED COST SHEET

THE PRICES INCLUDED WITH THE TOOL LIST WERE GATHERED USING A K-D TOOL COMPANY CATALOG AND PRICE LIST. THESE ARE ALL AMERICAN MADE TOOLS. THERE ARE EVEN HIGHER QUALITY AND MORE EXPENSIVE TOOLS AVAILABLE, SUCH AS THOSE MADE BY SNAP-ON CORPORATION, MATCO, AND THE MACK TOOL COMPANY. THERE ARE ALSO LESSER QUALITY IMPORTED TOOLS AVAILABLE THAT ARE MUCH LESS EXPENSIVE TO START YOUR TOOL COLLECTION.

The following tools/equipment must be obtained by students prior to starting the first semester:

Approx. Cost

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| 1. Thick soled work shoes or boots | \$45.00 |
| 2. 3/8" square drive sockets, sizes: 3/8", 7/16", 1/2", 9/16", 5/8", 11/16", 3/4" , and a 3/8" ratchet, 3" and 6" extensions, and a breaker bar. | \$58.00 |
| 3. Combination box-open-end wrenches sizes: 3/8", 7/16", 1/2", 9/16", 5/8", 11/16", 3/4" | \$51.00 |
| 4. Screwdrivers: Standard tip - 1/4" x 1-5/8", 1/4" x 6", 5/16" x 6". Phillips - #1, #2
(look for a basic screwdriver set with #1 and #2 sizes with long and shorts assortments) | \$31.00 |
| 5. Pliers: 8 to 10 inch diagonal-cutting and Slip Joint. | \$22.00 |
| 6. Wire brush with a wooden handle | \$4.25 |
| 7. 12" adjustable wrench | \$20.00 |
| 8. 6" precision "machinist" measuring rule, don't buy a thin flimsy rule! | \$3.50 |
| 9. Spark plug sockets: 3/8" drive 13/16", 5/8" | \$10.00 |
| 10. Tire tread depth gauge (try advance auto parts!)
(any brand) | \$5.00 |
| 11. Tire pressure gauge (buy a good one) | \$5.00 |
| 12. Tool box with lock: <u>for comparisons sake</u> look at Sears # 0096542700 4 drawer box as an absolute minimum size! (\$60.00) Better to try for a seven drawer Sears's # 00965786000 (\$95.00) | \$60.00 |
| 13. A <u>simple</u> pocket calculator, you will not need a Texas Inst. \$75.00 Scientific type!
(any brand, buy two so you have a spare) | \$10.00 |
| 14. Feeler gauges: Standard ignition mini set, Flat gauges, and Spark plug gap wire gauge | \$13.25 |

TOTAL:

\$338.00

(over)

CONTINUED

ADDITIONAL TOOLS NEEDED TO START THE 2nd SEMESTER IN JANUARY

15. Hammers: 1-16 oz. Ball Peen and 1-16 oz. plastic tipped hammer **\$29.00**
16. Punches & Chisels: 3/32", 3/16", 1/4" starter or tapered punches, cold chisels 7/16", 1/2", 5/8", \$72.00
- pin or straight punches 3/16", 1/4", 5/16"(Best to find a "starter set" as a package)
17. Pliers - 6" needle nose, 7" regular vise grips, and a Battery terminal pliers (try auto zone) **\$35.50**
18. 1/4" Square driver sockets: sizes - 5/32", 3/16", 7/32", 1/4", 5/16", 11/32", 9/32", 7/16", **\$32.50**
and 1/2". 1/4" square drive handles and extensions: Ratchet plus a 2" extension, & 6" extension
19. Adapters: 1/2" drive to 3/8" and 3/8" drive to 1/2" **\$10.00**
20. Minimum of four 18 Gauge and 18" long test leads with alligator clips for electrical tests **\$6.00**
(any brand)
21. MOST IMPORTANT: A "DVOM" electrical test meter. Minimum the RSR926 meter **\$45.00**
Or if you can afford it, the PDI ASE approved 920 Automotive test meter package **\$230.00**
We will provide specs and purchase info on both meters! This will be one of your most used tools!

TOTAL: FIRST YEAR \$230.00 + \$338.00=\$568.00

SOPHOMORE TOOLS

ADDITIONAL TOOLS NEEDED TO START THE 2nd YEAR (3RD SEMESTER)

1. 1/2" drive sockets: sizes - 3/8", 7/16", 1/2", 9/16", 5/8", 11/16", 3/4", 7/8", 15/16", & 1" **115.00**
including a 1/2" drive breaker bar , 1/2" drive ratchet, 1/2" drive extensions, 5 inches,
and 10 inches in length.
2. A 1/2" drive torque wrench 10 to 175 pound range. A minimum would be a "beam type" **50.00**
A preferred type would be a "micrometer click type" ranging from \$60.00 to \$250.00
2. Metric wrenches: Combination box/open end, sizes - 10mm, 11mm, 12mm, 13mm, 14mm, **\$75.00**
15mm, 16mm, 17mm, & 18mm.
3. Metric sockets: 3/8" or 1/2" drive, any combination: sizes - 10mm, 11mm, 12mm, 13mm, **\$31.00**
14mm, 15mm, 16mm, 17mm, & 18mm

TOTAL: \$221.00

TOTAL COST OF THE REQUIRED TOOLS FOR THE AUTOMOTIVE TECHNOLOGY PROGRAM IS APPROXIMATELY: \$840.00 OVER 2 YEARS.
NOTE: CONSIDERABLE SAVINGS CAN BE HAD WHEN BUYING SETS THAT ALREADY INCLUDE THE NECESSARY TOOLS BUT ARE ON SALE! SHOP AROUND, ESPECIALLY WHEN SEARS HAS PACKAGED SALES!