MTC AUTOMOTIVE TECHNOLOGY

Required Tool List as of Fall Semester 2010

By the 10th day of classes, each student is required to have an automotive tool set that includes:

<u>General</u>

- 1. Safety glasses
- 2. Ear Plugs
- 3. Fender cover
- 4. Air Blow Nozzle With Air Fittings Type "C" required
- 5. Tire Air Chuck With Air Fittings- Type "C" required
- 6. Tire Air Gauge
- 7. Wire Brush (12 inches minimum)
- 8. Magnetic Pickup Tool
- 9. Inspection Mirror
- 10. Air Conditioning Thermometer
- 11. 12' Extension Tape

12. Pocket Flashlight

- 13. 6" Steel Machinist Rule
- 14. 16 oz. Soft Face Hammer (Plastic and Rubber, not a rubber mallet)
- 15. 32oz. Ball Peen Hammer
- 16. Punch and Chisel Set (at least 12 pcs.)
- 17. 8" Brass Drift Punch

18. 4 pc Seal Pick Set

- 19. Oil and Gas Filter Wrench (Belt Type ¹/₂" drive)
- 20. Hack Saw
- 21. Spark Plug Gap Gauge Set (wire type: .035-.080)
- 22. Master Feeler Gauge Set .005 thru .030 w/45 degree blades & Straight Set .0015 thru.035
- 23. Gasket Scraper

<u>Brake</u>

- 24. Brake Hold Down Spring Tool
- 25. Brake Return Spring Tool

Screw Drivers

- 26. Slotted: 3", 6", 9", 12" & 1 Stubby & Pocket Screwdriver
- 27. Phillips: 6" #1, 6" #2, 12" #3 & Stubby #2
- 28. Slotted Screw Starter
- 29. Phillips Screw Starter

Wrenches

- **30.** Standard Combination Wrenches: ¹/₄" thru 1" (inclusive)
- 31. Metric Combination Wrenches: 7mm thru 19mm (inclusive)
- 32. Metric Line Wrench Set: 10mm thru 18mm (inclusive)
- 33. Standard Line Wrench Set: 3/8 thru 11/16 (inclusive)
- 34. 10" Adjustable Wrench
- 35. Standard Hex Key (Allen) Wrench Set (10 piece)
- 36. Metric Hex Key (Allen) Wrench Set (10 piece)

Socket Sets

- **37.** ¹/₄ Drive Socket Set Including: Socket Rails or Organizers
 - a. Ratchet
 - b. Extension
 - c. Driver Handle
 - d. Metric Sockets (Short & Deep 6mm thru 13mm inclusive)

38. 3/8 Drive Socket Set Including: Socket Rails or Organizers

- a. Ratchet
- b. Speed Handle
- c. Extension Set: 3", 6", 24"
- d. Universal Joint
- e. Standard Sockets: 3/8' thru 7/8' Deep and Shallow (inclusive)
- f. Metric Sockets: 10mm thru 19mm Deep and Shallow (inclusive)
- g. 3/8 Drive Universal Spark Plug Sockets: 5/8" and 13/16"
- 39. ¹/₂ Drive Socket Set Including: Socket Rails or Organizers
 - a. Ratchet
 - b. Extension Set: 5" and 10"
 - c. Breaker Bar
 - d. Standard Sockets: 1/2" thru 1" (Short or Deep) (inclusive)
 - e. Torque Wrench click type 150 ft. lb. capacity (or higher)
- 40. 3/8" to ½" Adaptor
- 41. ¹/₂" to 3/8" Adaptor
- 42. Torx Bits: T-8, T-10, T-15, T-20, T-30, T-40, T-45, T-50, T60

Pliers

- 43. 7" Needle Nose Pliers
- 44. 7" Diagonal Pliers
- 45. 9" Interlock Joint Pliers (channel lock)
- 46. 9" Standard Common Pliers
- 47. Vise Grip Pliers (8" to 10")
- 48. Spark Plug Wire Removal Pliers
- 49. Snap Ring Plier Set w/Tips for Internal & External Operations & Flat Tip Trans. Pliers

Electrical

- 50. 12 Volt Test Light
- 51. Battery Side Post Cleaner (Alternate is small brass wire brush 6" min.)
- 52. Battery Top Post Cleaner
- 53. Digital Multi-Meter: 10 Mega-Ohm Impedance-

Specs: AC Voltage: 0-750 VAC DC Voltage: 0-1000 VDC- Capable of reading 1 mv, DC Current: 0-10 ADC- Capable of reading 1 mA, AC Current :Same as DC specs Resistance: 0-20 Mega Ohms

Tool Storage

54. 28" Tall or Larger Professional Quality Tool Box w/Casters <u>40" long x 20" wide maximum size allowed</u> (Hand held boxes not allowed)

Students Name:	
SID #:	Date:
Instructor Verification:	Semester: