GTCC Automotive Systems Technology Program

Required Tools List

Each student must purchase the tools listed below as a requirement to participate in the Automotive Systems Technology Program – Ford ASSET. (Tools need to be available for the first co-op session in November.

1/4” Drive

1- Complete Socket Set-Metric

3/8” Drive

1- 3/8” Drive Ratchet- approximately 12” in length
1- 3/8” Drive Extension- 1” in length
1- 3/8” Drive Extension- 3” in length
1- 3/8” Drive Extension- 6” in length
1- 3/8” Drive Extension- 12” in length
1- 3/8” Drive Universal Joint
1- 3/8” Drive Spark Plug Socket, 5/8” (Deep well)
1- 3/8” Drive Deep Metric Sockets- 6-19mm
1- 3/8” Drive Shallow Metric Sockets- 6-19mm
1- Set Torx Drive Bits 10-55 - inside
1- Set Torx Drive Bits 10-55 - outside
1- Set Metric Hex (Allen) Sockets

Miscellaneous

1- Tool Cabinet or Cart, Lockable with Drawers
1- Ball Pein Hammer-Large (24oz)
1- Safety Goggles/Glasses (Instructor Approved)
1- Gasket Scraper
1- SetFeeler Gauges- Metric and Standard Graduations
1- Oil Filter Removal Tool (Plier-type)
1- Measuring Tape
1- Spark Plug Gap Adjusting Tool
1- Pry Bar (24-36”)
1- Tire pressure gauge
1- Air chuck (tire inflation tool)
1- Valve core tool
1- Flashlight with spare batteries and spare bulb
1- Digital Volt Ohm Meter (Instructor Approved)

Optional Tools
(Recommended but not required)

1- 3/8” Drive Impact Wrench (cordless recommended)
1- Cordless Drill/Driver
1- Razor Scraper
1- 3/8” Drive Spark Plug Socket, 13/16”
1- 3/8” Drive Shallow Socket Set- 1/4”-7/8” 6 pt.
1- 3/8” Drive Universal Metric Socket Set-Impact
1-½” Drive Socket Set Metric-13mm to 24mm
1- ½” Drive Ratchet- approximately 12” in length
1- ½” Drive Socket Set Standard- 7/16” to 1”
1- ½” Breaker Bar approximately 24”
1- ½” Drive Extension 3”
1- ½” Drive Extension- 10”
1- Set Allen Wrenches- Standard
1- Set Allen Wrenches- Metric
1- Set Torx Screwdrivers
1- Universal Snap Ring Pliers
1- Set Std. Combination Wrenches (¼”- 1”)
2- Drum Brake Spring Tools- Return and hold-down
1- Brass Punch
1- Center Punch
1- Pin Punch
1- Cold Chisel

1/2” Drive

1- ½” Drive Impact Socket Set- Metric (Deep well)
1- ½” Drive Impact Wrench

Wrenches

1- Set Metric Combination Wrenches 7-19mm
1- Adjustable Wrench- 12”

Pliers

1- Pair Slip Joint
1- Pair Diagonal Side Cutting
1- Pair Needle Nose-Long
1- Pair Adjustable Joint (Channel Lock) 12”
1- Pair Locking (Vise Grips) 10”

Screwdrivers

4- Straight Blade- 1 each: Stubby, small, medium, large
4- Phillips Screwdrivers- #1, #2, #2 Stubby, and #3

1- 3/8” Drive Shallow Socket Set- 1/4”-7/8” 6 pt.
1- 3/8” Drive Universal Metric Socket Set-Impact
1-½” Drive Socket Set Metric-13mm to 24mm
1- ½” Drive Ratchet- approximately 12” in length
1- ½” Drive Socket Set Standard- 7/16” to 1”
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1- Universal Snap Ring Pliers
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2- Drum Brake Spring Tools- Return and hold-down
1- Brass Punch
1- Center Punch
1- Pin Punch
1- Cold Chisel