REQUIRED TOOLS

Brand Requirments

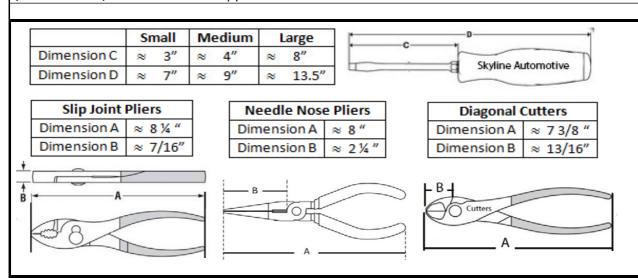
For all required tools we have listed a number of tool manufactures below that are acceptable. Due to safety concerns and fastener damage all other brands are unacceptable for the "Required Basic Tool Set".

Acceptable Brands for the Required Basic Tool Set

Snap-on*, Mac*, Matco*, Craftsman, S & K, Proto, Stanley, Cronwell, Irwin & Cresent. (*--or brands sold through a Snap-on, Mac or Matco.)

Screw Driver, Plier & Cutter Dimensions

Screwdriver length is measured in shank length (Dimension C) and overall length (Dimention D) **Note!** ≈ means approximate sizes should be close to the listed sizes below.



BASIC TOOL SET	
REQUIRED SET FOR ALL MORNING PROGRAM CLASSES:	
Description of Tool or Set	Quantity
3/8" drive ratchet. (recommended long handle flex head)	1
3/8" drive shallow socket set. 8mm to 19mm 6 pt.	1
3/8" drive deep socket set. 8mm to 19mm 6 pt.	1
3/8" drive extension set including 4 extensions(1 1/2", 3", 6" and 10")	1
Drive adapter set. 3/8" female to 1/4" male, 3/8" female to 1/2" male, and 1/2"	1
female to 3/8" male.	I
Screw driver set. (Minimum 6 pieces) Small, Medium and Large sizes in both	1
flat and Phillips tips. See chart above for approximate size values.	
Combination wrench set. 12 pt. 10mm to 19mm	1
8mm or 5/16" Combination wrench 6 pt.	1
24 oz. Ball peen hammer.	1
24" or larger pry bar	1
Pick set 4 piece with handles.	1
Pliers set. Standard size including Cutters, needle nose and slip joint.	1
12" Adjustable Joint Pliers	1
2 1/4" round telescoping inspection mirror	1
Tire pressure gauge	1
Hex ball Air Chuck and shop nipple	1

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OPTIONAL RECOMMENDED TOOLS	
NOTE! Many of the tools in the optional kits are in multiple kits. That is	
because many of the tools are useful in multiple repair areas.	
BASIC TOOLS	
Description of Tools	Quantity
Combination wrench set. 12 pt. 3/8" to 3/4"	1
3/8" drive shallow and deep socket set. 1/4" to 7/8" 6 pt.	1
Mini flashlight	1
Magnetic pickup tool. 2 lb. lift. Maximum extension 26 "	1
Metal gasket scrapper.	1
6" metal machinist rule. US and Metric	1
Spark plug gap tool	1
1/2" drive long handled flex head ratchet	1
1/2" drive extension kit with at least 3 extensions	1
1/2" drive metric socket set 12mm - 24mm 6 pt. (shallow)	1
FLECTRICAL TOOLS	
ELECTRICAL TOOLS	
Description of Tools	Quantity
12v test light	1
Remote starter switch	1
Battery brush	1
Pocket flashlight	1
Automotive digital multimeter kit (Fluke 88 or equivalent)	1
Includes: Meter, inductive pick-up, temp. probe, storage case	
1/4" drive deep sockets metric 5mm-15mm 6pt	1
1/4" drive deep sockets standard 3/16" - 9/16" 6pt	1
Ratcheting screwdriver	1
1/4" drive box or something to keep the 1/4" drive tools in.	1 1
1/4" drive long shank driver w/female square dr 1/4" drive ratchet	1
1/4" drive 2" knurled extension	1
1/4" drive 4" knurled extension	1
1/4" drive 6" knurled extension	1
1/4" drive universal joint	1
1/4" drive 7mm metric 6 point shallow socket	1
1/4" drive 8mm metric 6 point shallow socket	1
1/4" drive 9mm metric 6 point shallow socket	1
1/4" drive 10mm metric 6 point shallow socket	1
1/4" drive 11mm metric 6 point shallow socket	1
1/4" drive 12mm metric 6 point shallow socket	1
1/4" drive 13mm metric 6 point shallow socket	1
1/4" drive 14mm metric 6 point shallow socket	1
Socket rail Minimum length 10"	1
1/4" drive socket rail clips (11 minimum for the above rail)	1
Battery tester - thexton	1
Jumper wire set - assorted lengths	
	+
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ENGINE PERFORMANCE TOOLS	
Description of Tools	Quantity
Mighty Mite vacuum pump	1
Spark plug gap tool - conventional	1
Spark plug gap tool - electronic	1
Modified spark plug - similar to Kent Moore (ignition spark tester electronic)	1
Injector test light kit	1
Compression gauge set	1
Vacuum & fuel pump for carburetor pressure gauge set	1
High pressure injection fuel pressure gauge Set	1
3/8" Dr. Flex-head torque wrench approximaely 20-100lb.ft. Electronic or click	1
3/8" drive spark plug socket. 13/16"	1
3/8" drive spark plug socket 5/8"	1
TRANSMISSIONS & DRIVE TRAIN TOOLS	
Description of Tools	Quantity
Convertible Snap ring pliers set with round ends.	1
Snap ring pliers set with Flat tips	1
3/8" drive extension. 36" long.	1
3/8" drive metric swivel socket set. 10mm - 19mm, 6 point. (shallow)	1
Folding hex wrench set. (.050" to 3/16")	1
Metric folding hex wrench set. (1.5mm to 6mm)	1
Blow gun. (non-restrictive) rubber tip.	1
Tapered bronze punch. 10" long, 3/8" tip diameter.	1
Feeler gauge set0015" to .035". 35 blades.	1
Vise grip dial indicator set.	1
6" digital type calipers (metal frame)	1
1/2" Dr. Flex-head torque wrench approximately 40-250lb.ft. Electronic or click	1
3/8" Dr. Flex-head torque wrench approximately 20-100lb.ft. Electronic or click	1
3/8" Dr. Dial torque wrench 0 - 300lb. Inch.	1
3/8" Dr. high torque air ratchet	1
3/8" drive universal socket set. 6 pt. (7/16" to 3/4")	1
3/8" drive universal socket set. 6 pt. (10mm to 19 mm) (shallow)	1
3/8" and 1/4" drive torx bits. T-8 to T-55	1
1/2" drive impact gun	1

ENGINE TOOLS	
Description of Tools	Quantity
Description of Tools Folding hex wrench set. (.050" to 3/16")	1 Quantity
Metric folding hex wrench set. (1.5mm to 6mm)	1
Blow gun. (non-restrictive) rubber tip.	1 1
Bronze tip hammer. 24 oz.	1
Tapered bronze punch. 10" long, 3/8" tip diameter.	1
3/8" drive spark plug socket. 13/16"	1
3/8" drive spark plug socket 5/8"	1
Feeler gauge set0015" to .035". 35 blades.	1
Vise grip dial indicator set.	1
6" digital type calipers (metal frame)	1
1/2" Dr. Flex-head torque wrench approximately 40-250lb.ft. Electronic or click	1
3/8" Dr. Flex-head torque wrench approximately 20-100lb.ft. Electronic or click	1 1
3/8" Dr. high torque air ratchet Electronic or click	1
3/8" Dr. shallow impact swivel socket set 6 pt. (3/8"-3/4") 7 pcs.	1
3/8" drive universal socket set. 6 pt. (7/16" to 3/4") 6 pcs. (shallow)	1
3/8" drive universal socket set. 6 pt. (7/10 to 3/4 / 6 pcs. (shallow)	1
3/8" drive 36" extension bar.	1
3/8" and 1/4" drive torx bits. T-8 to T-55	1
BRAKE AND CHASSIS TOOLS	
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Description of Tools	Quantity
Flare nut wrench 6 piece set - Metric (Includes sizes: 9-11mm,	1
10-12mm, 13-14mm, 15-17mm, 16-18mm, 19-21mm)	
Pinch bar 38"	1
1/2" breaker bar approximately 24"	1
Combination wrench 12pt. 20mm	1
Combination wrench 12pt. 21mm	1
Combination wrench 12pt. 22mm	1
Combination wrench 12pt. 23mm	1
Combination wrench 12pt. 24mm	1
40 oz. dead-blow ball peen hammer	1
1/2" Dr. impact socket set 6 pt. (3/8"-1") 11 pcs. shallow.	1
Flair nut wrench set (1/4 " to 13/16) 5 pcs.	1
6" metal machinist rule. US and Metric	1
Tire gauge 20-100 psi	1
Tire valve stem tool	1
Tire tread depth gauge	1
Air chuck	1
Brake service tool set (includes: spring pliers,	1
29°x45° adjusting tool, 8x10mm bleeder wrench,	
double ended spring cap socket, and 1/4" handle)	1
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double ended spring cap socket, and 1/4" handle)	1
double ended spring cap socket, and 1/4" handle) 1/2" Dr Socket Set Metric 6 pt. Std (12-24mm)	-
double ended spring cap socket, and 1/4" handle) 1/2" Dr Socket Set Metric 6 pt. Std (12-24mm) 1/2" Dr Universal Joint	1
double ended spring cap socket, and 1/4" handle) 1/2" Dr Socket Set Metric 6 pt. Std (12-24mm) 1/2" Dr Universal Joint 1/2" Dr Flex-Ratchet 1/2" Dr 24" Breaker Bar	1 1
double ended spring cap socket, and 1/4" handle) 1/2" Dr Socket Set Metric 6 pt. Std (12-24mm) 1/2" Dr Universal Joint 1/2" Dr Flex-Ratchet 1/2" Dr 24" Breaker Bar 1/2" Dr 10" Extension	1 1 1
double ended spring cap socket, and 1/4" handle) 1/2" Dr Socket Set Metric 6 pt. Std (12-24mm) 1/2" Dr Universal Joint 1/2" Dr Flex-Ratchet 1/2" Dr 24" Breaker Bar	1 1 1 1
double ended spring cap socket, and 1/4" handle) 1/2" Dr Socket Set Metric 6 pt. Std (12-24mm) 1/2" Dr Universal Joint 1/2" Dr Flex-Ratchet 1/2" Dr 24" Breaker Bar 1/2" Dr 10" Extension 1/2" Dr 2" Extension 1/2" Dr 5" Extension	1 1 1 1 1
double ended spring cap socket, and 1/4" handle) 1/2" Dr Socket Set Metric 6 pt. Std (12-24mm) 1/2" Dr Universal Joint 1/2" Dr Flex-Ratchet 1/2" Dr 24" Breaker Bar 1/2" Dr 10" Extension 1/2" Dr 2" Extension	1 1 1 1 1 1

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Pre-Delivery Service	
Description of Tools	Quantity
1/2" Air or Electric Impact Gun	1
Protective Vinyl Boot for Air Gun above	1
1/2" Dr Impact Sockets Metric 10-24mm Std	1
Extension 3"	1
Extension 6"	1
1/2" Impact Flip-Socket (19-21mm) Thin wall if available	1
Heating and Cooling	
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Description of Tools	Quantity
Thermometer	1
Cooling System Pressure Tester	1
Radiator Adaptor	1
Radiator Cap Adaptor	1
Anti-Freeze Tester	1
Maintenance	
Description of Tools	Quantity
Tire inflator with gauge	1
Oil filter wrench or wrench kit (band, claw, spider or canister type)	1
1/2" drive torque wrench up to approx. 250 foot pounds. Electronic or click	1
Flip socket and extension kit. 19mm/21mm. Thin wall if available	1
1/2" drive long handled ratchet wrench	1
Cooling system pressure tester	1
Brake Pad measuring gauge	1
6" metal machinist rule with inch and metric	1
Tire tread depth gauge	1
1/2" impact gun	1
19mm torque stick less than 70 foot pound.	1
21mm torque stick less than 70 foot pound.	1