

**Delgado Community College
Purchasing Department
501 City Park Avenue, Bldg 37
New Orleans, Louisiana 70119
(504) 762-3027**

Invitation to Bid

**Bid Name & Number:
R0021303 - Tools**

**Due by and to be opened on:
October 29, 2020 at 2:00PM CST**

**Contact Person:
Wendy Boesch
Senior Buyer
(504) 762-3031**

NAME OF COMPANY

ADDRESS

CITY, STATE, ZIP

PHONE NUMBER

FAX NUMBER

EMAIL

SIGNATURE OF COMPANY REPRESENTATIVE

NAME (PRINTED) & TITLE OF COMPANY REPRESENTATIVE

**** This page must be completed and submitted with your Bid Form below****

SECTION I – REQUIREMENTS, INSTRUCTIONS, TERMS, & CONDITIONS

Bid Name & Number - R0021303 – TOOLS

A. QUESTIONS / ADDENDA:

- 1) After review of this Bid Document in its entirety, any questions must include the Bid Name and Number and sent in writing to Wendy Boesch at wboesc@dcc.edu or faxed to 504-762-3089 and will be answered via an Addendum. All questions must be submitted no later than Wednesday, October 21, 2020 by 12:00PM (Noon) CST.
- 2) A final 48-hour period after the issuance of the Addendum will be granted for questions which are directly related only to the answers provided in the Addendum.
- 3) Any interpretation, correction or change of the Bidding Documents will be made by addendum. Interpretations, corrections or changes of the Bidding Documents made in any other manner will not be binding, and Bidders shall not rely upon such interpretations, corrections and changes.
- 4) The Bidder must acknowledge all issued addenda by signing and returning it with the bid or if the bid has already been submitted, per the instructions on the addenda. Failure to acknowledge addenda will render the bid informal and will cause its rejection.
- 5) Bid Documents and Addenda may be downloaded from <https://wwwcfprd.doa.louisiana.gov/osp/lapac/dspBid.cfm?search=department&term=39>

B. SUBMITTING BIDS:

- 1) Sealed Bids MUST list the bid name and bid number clearly written on the outside of the packaging and submitted by mail or in person (NOT emailed or faxed) to:

Delgado Community College
Attn: Wendy Boesch, Senior Buyer – Purchasing Dept
O’Keefe Administration Building
501 City Park Avenue, Building 37
New Orleans, La 70119

- 2) Hand carried bids are to be delivered to the attendant at the front desk. Do not leave Bid unattended. If bids are delivered via an express mail carrier, the bid name and bid number must be on the outside of the shipping packaging.
- 3) Failure to comply with all requirements will disqualify the Bid.

- 4) Please note that express mail or USPS carriers may not deliver directly to 501 City Park Avenue. The bidder/proposer is solely responsible for ensuring that its courier service provider makes inside deliveries to 501 City Park Avenue.
- 5) Each bidder is solely responsible for the timely delivery of its bid. Delgado Community College will not be responsible for any delays in the delivery of bids, whether delayed in the mail, or for any reason whatsoever. Bid must be received by the Purchasing Department no later than Thursday, October 29, 2020 by 2:00PM CST.
- 6) A response to a bid invitation is our only indication of your interest in college business. Failure to respond to six (6) consecutive bid invitations may cause your name to be removed from the bidders' list.
- 7) *In accordance with R.S. 37:2163A, Contractors' License number in the appropriate classification(s) must appear on the bid envelope submitted on all projects in the amount of \$50,000 or more (and \$1.00 or more if hazardous materials are involved. (If applicable).*

C. BID PRESENTATION:

- 1) Bids must be submitted on the forms furnished within this document, for this purpose and must be filled out in ink or typewritten and signed in ink. Do not erase, correct, or write over any prices or figures necessary for this proposal. If any corrections are necessary, each must be initialed by bidder. Failure to comply with the above requirements will cause your bid to be disqualified.
- 2) Each bidder is solely responsible for the accuracy and completeness of its bid. Errors or omissions may be grounds for rejection, or may be interpreted in favor of the College.
- 3) Any manufacturer's names, trade names, brand names, or catalog numbers used in the specifications are for the purpose of describing and establishing general quality levels. Such references are not intended to be restrictive. Bids will be considered for any brand that meets or exceeds the quality of the specifications listed for any item. Vendor must state the brand/model he or she is bidding on each item.
- 4) If item(s) or services bid do not fully comply with specifications, including brand and/or product number or work, bidder must state in what respect the item(s), services or work deviate. Failure to note exceptions on the bid form will not relieve the successful bidder from supplying the actual products or services requested.
- 5) It shall be the sole responsibility of the Vendor to prove equivalency. Vendor shall submit with the bid all illustrations, descriptive literature, and specifications necessary to determine equivalency. Failure to do so will eliminate your bid from consideration. The decision of the College as to equivalency shall be final.
- 6) It shall be distinctly agreed and understood that the price bid/quoted must be a firm price, and not be subject to change at time of the shipment of goods or delivery of services.

- 7) Vendors are advised that all hazardous products must be accompanied by a "Hazardous Materials Data Sheet". This sheet must also include suggest antidotes for ingestion and other contact.
- 8) The Bidder agrees that his/her bid is based solely upon the materials, specifications and requirements described in the Bidding Documents as advertised and as modified by addenda. The bid submitted is not based on any verbal instructions contrary to the Bidding Documents and addenda.
- 9) List of distributors: The Vendor signing the bid shall be designated as the Prime Vendor on any contract/agreement resulting from this bid. If additional Vendors are authorized to receive orders for items covered under this bid/proposal, the Vendor must submit, with bid, a list of those additional authorized distributors.
- 10) Effective August 15, 1997, in accordance with L.R.S. 39:1594 (Act 121), the person signing the bid must be:
 - i. A current corporate officer, partnership member or other individual specifically authorized to submit a bid as reflected in the appropriate records on file with the Secretary of State; or
 - ii. An individual authorized to bind the vendor as reflected by an accompanying corporate resolution, certificate, or affidavit.
 - iii. By signing the bid, the bidder certifies compliance with the above.
- 11) Proposer or bidder, contractor, etc. certifies, by signing and submitting a proposal for \$25,000 or more, that their company, any subcontractors, or principals are not suspended or debarred by the General Services Administration (GSA) in accordance with the requirements in OMB Circular A-133. (A list of parties who have been suspended or debarred can be viewed via the internet at www.epls.gov .)
- 12) By signing and submitting a bid, Bidder acknowledges that he/she has read and understands the Bidding Documents and his bid is made in accordance therewith.

D. ALTERNATE BID, BID MODIFICATION OR WITHDRAWAL OF BID:

- 1) If a vendor wishes to submit an alternate bid in addition to the brand/model requested, he or she may submit one (1) alternate bid. The alternate bid must be a separate submission, must be clearly marked as an alternate, and must include all applicable forms (i.e., jobsite visit). In addition, a separate, signed cover sheet must be submitted with the alternate.
- 2) A bid may not be modified, withdrawn, or canceled by the Bidder for a period of thirty (30) calendar days for the period following the time and bid date designated for the receipt of bids, and Bidder so agrees in submitting his bid, except in accordance with R.S. 39:1594.F.
- 3) Prior to the time and date designated for receipt of bids, bids submitted early may be modified or withdrawn only by notice to Delgado Community College Purchasing Office at the place and prior to the time designated for receipt of bids.

- 4) Withdrawn bids may be resubmitted up to the time designated for the receipt of bids provided that they are then fully in conformance with these Instructions to Bidders.

E. BID OPENING /AWARDING:

- 1) Bid openings are subject to any in place Executive Order or revised statute as it pertains to the current pandemic.
- 2) No information will be given out as to opinions concerning the ultimate outcome while consideration of the award is in progress.
- 3) The College reserves the right to award the above items separately, grouped, or on an all-or-none basis, and to reject any or all bids and to waive any informalities including technicalities in specifications that preclude competition. It is the intent of the College to award to a single vendor.
- 4) The College shall have the right to reject any or all bids not accompanied by any data required by the Bidding Documents or a bid in any way incomplete or irregular.
- 5) Delgado Community College reserves the right to reject any and all bids and to waive any informality.
- 6) The Bid shall be awarded on the basis of the requirements listed in this Bid Document, lowest total cost, responsive, and qualified bidder as determined by the College. A notification shall be sent to all bidders.
- 7) Only the issue of a purchase order or a signed acceptance of a proposal constitutes acceptance on the part of the College.

F. ORDERS, SHIPPING AND DELIVERY:

- 1) It is the intention that all orders will be placed via a College issued purchase order.
- 2) Effective September 1, 1991, in accordance with Act 1029 of the 1991 Regular Legislative Session, Delgado Community College will not be responsible for any sales tax, either state or local.
- 3) All shipping/handling/freight and any other charges necessary for the procurement of the listed items must be included in the line item pricing. No separate shipping charges are allowed. The College will not be responsible for any additional charges not clearly stated as a part of this bid.
- 4) All orders must be delivered within the allotted timeframe specified on the Bid Form.

- 5) All deliveries shall be made FOB Destination to the College unless otherwise specified by the College.
- 6) Supplies are to be delivered to the location and person indicated on the Purchase Order. All orders shipped must list the name of the recipient and purchase order number on the shipping label.
- 7) Bidder must be able to provide shipping and tracking information for all orders placed if requested by Delgado Community College.
- 8) If any supplies are received damaged, vendor will issue a return merchandise authorization for the damaged items and replace it. The cost to send back any damaged merchandise is at the expense of the vendor.
- 9) In case of default by the Vendor, the College reserves the right to purchase any or all items in default on the open market, charging Vendor with any excessive costs. Should such charge(s) be assessed, no subsequent bids of the defaulting Vendor will be considered until the assessed charge(s) have been satisfied.

G. PAYMENT TERMS:

- 1) Vendor will be paid on a Net 30 basis.
- 2) Payment for materials ordered via a purchase order shall be made to the Vendor after receipt of an invoice (or invoices) by the College in which the Bidder certifies, and the College agrees, that all materials/services were supplied as per the specifications. Invoices will not be paid prior to 30 days from receipt of invoice or completion of services/receipt of project. There will be no pre-payment of any merchandise.
- 3) All invoices should be submitted to the College's Office of Accounts Payable and clearly indicate the Purchase Order Number assigned by the Delgado Purchasing office. All materials must be itemized on the invoice, lump sum invoices will not be processed.

***** End of Section I, Requirements, Instructions, Terms & Conditions *****

SECTION II – BID FORM (Pages 7-18)
Bid Name & Number - R0021303 – TOOLS

SCOPE OF WORK: The successful bidder shall be responsible for furnishing and delivering the items as listed on the bid form to **Delgado Community College, River City Campus at 709 Churchill Parkway, Avondale, LA 70094.**

DELIVERY & SHIPPING: Bidder is to provide the requested materials within **four (4) weeks** of order placement. All *shipping cost is to be included in the cost per item. No separate shipping charges are allowed.*

BID PRICING: Prices must be listed per the unit of measurement listed on this Bid Form. Quotes prepared on the vendors own form are not an allowable substitute for completing this Bid Form, see Section I: C: 1. All part numbers listed are for references only, can be equivalent, but must abide by the requirements listed in Section I: C: 3, 4 & 5 above. If items that are specified within a “Set” are sold separately, all pieces must be included in the specific line item number pricing, see Specifications pages.

AWARDING: This Bid will be awarded on an **all-or-none basis.**

LIST OF ITEMS:

Line Item #	QTY	UOM	Description (See Specifications -- pages 19-69)	Description, (Brand, Part and/or SKU Number) Bid	Unit Price	Total Price	Delivery ETA
1	6	EA	¼" Drive Adv 71 piece Metric & SAE 6 point Standard and Deep Impact Socket Set – #SAP716V				
2	3	EA	¾" Drive ADV 26 piece Metric 6 point Impact Socket Set – #SDPM266V				
3	3	EA	¾" Drive ADV 29 piece SAE 6 point Impact Socket Set – #SDP296V				
4	3	EA	1" Drive Impact Wrench (Silver Eagle) – #SE116				
5	3	EA	0-6" 6241 Depth Micrometer Base: 2.5" – #EQ6241				
6	3	EA	124 piece Auto Master Tap and Die Set – #124MATDS				

7	3	EA	¾" Drive Manual Torque Wrench, 100-600Ft. LBS – #TRD600K				
8	3	EA	Composite Impact Wrench (1/2") – #MT2779				
9	3	EA	Impact Wrench (3/4") – #MT2234				
10	3	EA	0-6" Outside Inch Micrometer Set w/ Case – #52-253-600-1				
11	3	EA	0-6"/0 – 150mm Electronic Coolant Resistant Micrometer Set – #54-860-106-1				
12	3	EA	Heavy-Duty Diesel Compression Set – #DCT1570				
13	3	EA	4S Triple Bay 25" ToolBox w/ Power – Black w/ Black Trim– #4325RP-BBB				
14	6	EA	4S Double Bay 25" ToolBox – Silver vein w/ Black Trim– #4225RX-SSB				
15	6	EA	Side Terminal Charge and Booster Adapters – #311				
16	6	EA	7" Long Cold Chisel (5/8" x ¾") – #LC247A				
17	6	EA	6-1/2" Long Cold Chisel (1/2" x 5/8") – #LC206A				
18	6	EA	Punch and Chisel Holder – #PCHOC				
19	6	EA	15 piece Metric Combination Wrench Set - #SMCM152K				

20	6	EA	5 piece Long Metric Combination Wrench Set - #SMCLM52K				
21	6	EA	13 piece Standard SAE Combination Wrench Set - #SMC132K				
22	6	EA	4 piece Long SAE Combination Wrench Set - #SMCL42K				
23	6	EA	Tech Multimeter – #MD257				
24	6	EA	Safety Glasses (Defiant Jumbo) – #SB1010SJ				
25	6	EA	4 piece Combo File Set (8”) - #CF48SGB				
26	6	EA	6 piece Flarenut Wrench Set - #SRFM66TC				
27	6	EA	4 piece SAE Flarenut Wrench Set - #SRF46TC				
28	6	EA	Stylus Pro USB Rechargeable Penlight (black) – #M95225				
29	6	EA	Adjustable Tension Hacksaw Frame – #HS40				
30	6	EA	Bi-Metal Hacksaw Blades – 24 TPI (10 pack) – #HB1224				
31	6	EA	16oz Ball Peen Hammer w/ Fiberglass Handle - #BH16F				
32	6	EA	24oz Ball Peen Hammer w/ Fiberglass Handle - #BH24F				

33	6	EA	Soft-Face Replaceable Tip Hammer - #PH25				
34	6	EA	Padded Ear Muff - NRR 27DB - #PM3010				
35	6	EA	17 piece Long Hex Key (.029-5/8") - #SHKL17				
36	6	EA	14 piece Long Hex Key (0.9-17mm) - #SHKLM14				
37	6	EA	Round Telescoping Inspection Mirror (1-1/4") - #HTE2T				
38	6	EA	Pocket Rule (6") - #SR6CMB				
39	6	EA	Telescoping Magnetic Pick Up Tool - #MM32				
40	6	EA	4 piece Universal Pliers Set - #SPU4M				
41	6	EA	3 piece Locking Pliers Set - #SMLP3				
42	6	EA	Non-Insulated Crimper Tool (9-3/4") - #TCT11B				
43	6	EA	Adjustable Wrench (10") - #AJW10A				
44	6	EA	6 piece Roll Pin Punch Set - #SPRP6K				
45	6	EA	3 piece Brass Pin Punch Set - #SPPB3K				

46	6	EA	Center Punch (3MM) – #SLP52A				
47	6	EA	5 piece Long Tapered Drift Punch Set - #SPDL5KA				
48	6	EA	Long Scraper (1-1/2" wide x 10" long) – #SC486RB				
49	6	EA	10 piece Top Torque II Screwdriver Set - #SSPCR10C				
50	6	EA	3/8" Drive ADV 12 piece SAE 12 point Impact Socket Set – #SBP122V				
51	6	EA	Eighty8 Tooth Locking Flex Chrome Ratchet (1/4" drive 6-1/4") – #AFR68LF				
52	6	EA	3/8" Drive ADV 12 piece SAE 6 point Deep Impact Socket Set – #SBDP126V				
53	6	EA	3/8" Drive ADV 13 piece Metric 6 point Impact Socket Set – #SBPM136V				
54	6	EA	3/8" Drive ADV 13 piece Deep Metric 6 point Impact Socket Set – #SBDPM136V				
55	6	EA	Eighty8 Tooth Locking Flex Chrome Ratchet (3/8" drive 12") – #BFR128LF				
56	6	EA	6 piece 3/8" Drive ADV Extension & Adapter Set – #SBX6V				
57	6	EA	1/2" Drive ADV 26 piece Metric 6 point Impact Socket Set – #SCPM266V				
58	6	EA	1/2" Drive ADV 13 piece SAE 6 point Deep Impact Socket Set – #SCDP136V				

59	6	EA	1/2" Drive ADV 13 piece SAE 6 point Impact Socket Set – #SCP136V				
60	6	EA	1/2" Drive ADV 26 piece Metric 6 point Deep Impact Socket Set – #SCDPM266V				
61	6	EA	Breaker Bar (1/2" drive) – #C18FH				
62	6	EA	Eighty8 Tooth Locking Flex Chrome Ratchet (1/2" drive 17") – #CFR178LF				
63	6	EA	3" Standard Impact Extension (1/2" drive) – #CXP3D				
64	6	EA	10" Impact Extension (1/2" drive) – #CXP10V				
65	6	EA	7" Impact Extension (1/2" drive) – #CXP7V				
66	6	EA	Universal Impact Joint (Pin) (1/2" drive) – #CUP2PD				
67	6	EA	Tape Measure Standard Feet/Inches w/ Fractional Speed Marks (25') – #MSLBG25FA				
68	6	EA	Dual Wheel Tire Gauge 10-150 PSI – #17545				
69	6	EA	Dial-Type Round Tire Tread Depth Gauge - #TDG2				
70	6	EA	Shoe Brush Style Carbon Steel Wire Brush w/ wood handle – #WB15				
71	3	EA	3 Head Tubing Bender – #MST370FH				

72	3	EA	Premium Double Flaring Kit – #DFK93				
73	3	EA	1" Drive ADV 7 piece SAE 6 point Wheel Service Socket Set – #SEP76V				
74	3	EA	1" Drive 9 piece SAE 6 point Impact Socket Set – #SEP96				
75	3	EA	12 piece Quarter Turn Internal/External Snap Ring Pliers Set – #MST1225				
76	3	EA	6" HD Pipe Wrench – #PWR6				
77	3	EA	10" HD Pipe Wrench – #PWR10				
78	3	EA	12" HD Pipe Wrench – #PWR12				
79	3	EA	14" HD Pipe Wrench – #PWR14				
80	3	EA	18" HD Pipe Wrench – #PWR18				
81	3	EA	6 Blade Feeler Gauge – #FG23A				
82	3	EA	2/3 Jaw 2-ton Puller – #P1023				
83	3	EA	Battery/Coolant/Def Refractometer – #MST401				
84	3	EA	Seal Puller – #SP7				

85	3	EA	11 piece (12 if separate) 3/8" Drive SAE Crowfoot Wrench Set - #SMCFS11				
86	3	EA	10 piece (11 if separate) 3/8" Drive Metric Crowfoot Wrench Set - #SMCFM10				
87	3	EA	1/4", 3/8" and 1/2" Drive 46 piece ADV Master Bit Socket Set - #SBS46V				
88	3	EA	8 piece Power Probe Butane Solder Kit - #PPSK				
89	3	EA	51 piece Rethreading Tap and Die Set - #TDK51				
90	3	EA	Infrared Thermometer w/ color screen - #MT20				
91	3	EA	Heavy-duty Tire Inflator w/ Dual Chuck - #MAT101				
92	3	EA	Torque Angle Meter - #MST65B				
93	3	EA	1/2" Drive Fixed Torque Wrench, 50-250ft. LBS - #TRC250K				
94	3	EA	3/8" Drive Fixed Torque Wrench, 50-250ft. LBS - #TRB250K				
95	3	EA	1/2" Drive Fixed Torque Wrench, 30-150ft. LBS - #TRC150K				
96	3	EA	Constant Tension Tube Cutter - #TTC18				
97	3	EA	Valve Core Tool - #VCT1				

98	3	EA	Belt Tension Gauge – SKU# AS4395A				
99	3	EA	18" Adjustable Wrench – #818				
100	3	EA	12" Adjustable Wrench – #AJW12A				
101	3	EA	8" Adjustable Wrench – #AJW8A				
102	3	EA	2-6" Inside Micrometer – #52-243-026-1				
103	3	EA	Silver Eagle Long Barrel Air Hammer Kit – #SE916K				
104	3	EA	Rubber Tip Blow Gun– #A201				
105	3	EA	Fin Straightener – #AC90925				
106	3	EA	Master Bushing Driver Set – #MST4410				
107	3	EA	Wilton C-Clamps (0-6" capacity) – #C546				
108	3	EA	Wilton C-Clamps (0-8" capacity) – #C548				
109	3	EA	Heavy-duty Clutch Adjusting Wrench – #CW7028				
110	3	EA	25MM Long Combination Wrench - #MCL25M2K				

111	3	EA	32MM Combination Wrench - #MCL32M2K				
112	3	EA	27MM Long Combination Wrench - #MCL27M2K				
113	3	EA	28MM Long Combination Wrench - #MCL28M2K				
114	3	EA	29MM Long Combination Wrench - #MCL29M2K				
115	3	EA	30MM Long Combination Wrench - #MCL30M2K				
116	3	EA	26MM Long Combination Wrench - #MCL26M2K				
117	3	EA	1-5/6" XL Wrench - #MCL422K				
118	3	EA	1-1/2" XL Combination Wrench - #MCL482K				
119	3	EA	1-17/16" XL Combination Wrench - #MCL462K				
120	3	EA	12 piece Dual Offset Combination Metric Wrench Set - #SMCOL122				
121	3	EA	Cooling System Pressure Tester - #PTK70888A				
122	3	EA	Dial Indicator w/ Magnet - #MDI260				
123	3	EA	0-6" Digital Caliper - #DPC351				

124	3	EA	3/8" Reversible Keyless Air Drill (Silver Eagle) – #SE144				
125	3	EA	1/2" Reversible Keyless Air Drill (Silver Eagle) – #SE155				
126	3	EA	29 piece Reduced Shank Nitro-Tip Drill Bit Set – #DB29NTSRS				
127	3	EA	10 piece Left Hand Drill Bit Extractor Kit – #DEK10A				
128	3	EA	Bionic Face Shield w/ Clear Lens – #S8500				
129	3	EA	Heavy-duty Master Feeler Gauge Valve Set – #AE3079M				
130	3	EA	4-5/16" to 4-3/4" Swivel Grip Oil Filter Wrench for Cummins and Detroit Diesel Engines – #OF50				
131	3	EA	4-3/4" to 5-3/16" Swivel Grip Oil Filter Wrench for John Deere – #OF60				
132	3	EA	5-1/4" to 5-3/4" Swivel Grip Oil Filter Wrench for Caterpillar Engines – #OF70				
133	3	EA	2lb Brass Hammer – #BRH32				
134	3	EA	48oz Ball Peen Hammer w/ Fiberglass Handle – #BH48F				
135	3	EA	14lbs 30" Indestructible Sledge Hammer – #MATS1430				
136	3	EA	Ultra Heat Gun Kit – #HG300A				

137	3	EA	12 piece Hand Impact Driver Set – #SID12PBA				
138	3	EA	100-125MM Outside Micrometer – #52-248-005-1				

TOTAL BID AMOUNT FOR ALL SUPPLIES LISTED: _____

By signing below and submitting a bid, the Bidder/ Vendor/Contractor acknowledges that he/she:

- 1) has read and understands the Bidding Document,
- 2) has complied with all bid requirements as stated in this bid document, and
- 3) has received/reviewed/signed/and submitted any and all addenda (*if applicable*).

Signature: _____ Date: _____

Printed Name: _____

Company Name: _____

**** Bid must be submitted on this form ****

**** End of Section II, Bid Form ****

SECTION III – SPECIFICATIONS
Bid Name & Number - R0021303 – TOOLS

All part numbers listed are for references only, can be equivalent, but must abide by the requirements listed in Section I: C: 3, 4 & 5 above.

Item (1) -- 1/4" Drive Adv 71 piece Metric & SAE 6 point Standard and Deep Impact Socket Set -- #SAP716V

If items are sold separately, all 71 pieces below must be included in Item #1 pricing:

Socket set should have:

- an opti-torque system that applies torque to the fastener sides to reduce corner round off
- a 150° chamfer on the socket drive end for better grab, constant pressure for easier use
- high-visible size markings to quickly identify socket
 - Set includes:

1. 1/4" DRIVE 7/32" SAE 6 POINT DEEP IMPACT SOCKET -- ADP76V
2. 1/4" DRIVE 7/16" SAE 6 POINT DEEP IMPACT SOCKET -- ADP146V
3. 1/4" DRIVE 6MM METRIC 6 POINT DEEP IMPACT SOCKET -- ADP6M6V
4. 1/4" DRIVE 5MM METRIC 6 POINT DEEP IMPACT SOCKET -- ADP5M6V
5. 1/4" DRIVE 5/16" SAE 6 POINT DEEP IMPACT SOCKET -- ADP106V
6. 1/4" DRIVE ADV 9MM METRIC 6 POINT UNIVERSAL IMPACT SCKT -- AUP9M6V
7. 1/4" DRIVE ADV 9/16" SAE 6 POINT UNIVERSAL IMPACT SOCKET -- AUP186V
8. 1/4" DRIVE ADV 10MM METRIC 6 PT UNIVERSAL IMPACT SCKT -- AUP10M6V
9. 1/4" DRIVE ADV UNIVERSAL IMPACT ADAPTER -- AUP2AV
10. 1/4" DRIVE 10MM METRIC 6 POINT IMPACT SOCKET -- AP10M6V
11. 1/4" DRIVE 8MM METRIC 6 POINT DEEP IMPACT SOCKET -- ADP8M6V
12. 1/4" DRIVE ADV 8MM METRIC 6 POINT UNIVERSAL IMPACT SKET -- AUP8M6V
13. 1/4" DRIVE 10MM METRIC 6 POINT DEEP IMPACT SOCKET -- ADP10M6V
14. 1/4" DRIVE 15MM METRIC 6 POINT IMPACT SOCKET -- AP15M6V
15. 1/4" DRIVE 14MM METRIC 6 POINT IMPACT SOCKET -- AP14M6V
16. 1/4" DRIVE 13MM METRIC 6 POINT IMPACT SOCKET -- AP13M6V
17. 1/4" DRIVE 12MM METRIC 6 POINT IMPACT SOCKET -- AP12M6V
18. 1/4" DRIVE 11MM METRIC 6 POINT IMPACT SOCKET -- AP11M6V
19. 1/4" DRIVE 11/32" SAE 6 POINT IMPACT SOCKET -- AP116V
20. 1/4" DRIVE 1/4" SAE 6 POINT IMPACT SOCKET -- AP86V
21. 1/4" DRIVE 1/2" SAE 6 POINT IMPACT SOCKET -- AP166V
22. 1/4" DRIVE 9MM METRIC 6 POINT DEEP IMPACT SOCKET -- ADP9M6V
23. 1/4" DRIVE 9/32" SAE 6 POINT DEEP IMPACT SOCKET -- ADP96V
24. 1/4" DRIVE 5.5MM METRIC 6 POINT DEEP IMPACT SOCKET -- ADP5.5M6V
25. 1/4" DRIVE 4MM METRIC 6 POINT DEEP IMPACT SOCKET -- ADP4M6V
26. 1/4" DRIVE 4.5MM METRIC 6 POINT DEEP IMPACT SOCKET -- ADP4.5M6V
27. 1/4" DRIVE 3/8" SAE 6 POINT DEEP IMPACT SOCKET -- ADP126V
28. 1/4" DRIVE 6" IMPACT EXTENSION -- AXP6V
29. 1/4" DRIVE 4" IMPACT EXTENSION -- AXP4V
30. 1/4" DRIVE 2" IMPACT EXTENSION -- AXP2V
31. 1/4" DRIVE 9MM METRIC 6 POINT IMPACT SOCKET -- AP9M6V
32. 1/4" DRIVE 9/32" SAE 6 POINT IMPACT SOCKET -- AP96V

33. 1/4" DRIVE 9/16" SAE 6 POINT IMPACT SOCKET -- AP186V
34. 1/4" DRIVE 7MM METRIC 6 POINT IMPACT SOCKET -- AP7M6V
35. 1/4" DRIVE 7/32" SAE 6 POINT IMPACT SOCKET -- AP76V
36. 1/4" DRIVE 7/16" SAE 6 POINT IMPACT SOCKET -- AP146V
37. 1/4" DRIVE 6MM METRIC 6 POINT IMPACT SOCKET -- AP6M6V
38. 1/4" DRIVE 5MM METRIC 6 POINT IMPACT SOCKET -- AP5M6V
39. 1/4" DRIVE 5/16" SAE 6 POINT IMPACT SOCKET -- AP106V
40. 1/4" DRIVE 5.5MM METRIC 6 POINT IMPACT SOCKET -- AP5.5M6V
41. 1/4" DRIVE 4MM METRIC 6 POINT IMPACT SOCKET -- AP4M6V
42. 1/4" DRIVE 4.5MM METRIC 6 POINT IMPACT SOCKET -- AP4.5M6V
43. 1/4" DRIVE 3/8" SAE 6 POINT IMPACT SOCKET -- AP126V
44. 1/4" DRIVE 3/16" SAE 6 POINT IMPACT SOCKET -- AP66V
45. 1/4" DRIVE 3/16" SAE 6 POINT DEEP IMPACT SOCKET -- ADP66V
46. 1/4" DRIVE 15MM METRIC 6 POINT DEEP IMPACT SOCKET -- ADP15M6V
47. 1/4" DRIVE 14MM METRIC 6 POINT DEEP IMPACT SOCKET -- ADP14M6V
48. 1/4" DRIVE 13MM METRIC 6 POINT DEEP IMPACT SOCKET -- ADP13M6V
49. 1/4" DRIVE 12MM METRIC 6 POINT DEEP IMPACT SOCKET -- ADP12M6V
50. 1/4" DRIVE 11MM METRIC 6 POINT DEEP IMPACT SOCKET -- ADP11M6V
51. 1/4" DRIVE 11/32" SAE 6 POINT DEEP IMPACT SOCKET -- ADP116V
52. 1/4" DRIVE 1/4" SAE 6 POINT DEEP IMPACT SOCKET -- ADP86V
53. 1/4" DRIVE 1/2" SAE 6 POINT DEEP IMPACT SOCKET -- ADP166V
54. 1/4" DRIVE 3/8" ADAPTER -- AP0812V
55. 1/4" DRIVE ADV 7MM METRIC 6 POINT UNIVERSAL IMPACT SCKT -- AUP7M6V
56. 1/4" DRIVE 8MM METRIC 6 POINT IMPACT SOCKET -- AP8M6V
57. 1/4" DRIVE ADV 7/16" SAE 6 POINT UNIVERSAL IMPACT SOCKET -- AUP146V
58. 1/4" DRIVE ADV 6MM METRIC 6 POINT UNIVERSAL IMPACT SCKT -- AUP6M6V
59. 1/4" DRIVE ADV 5MM METRIC 6 POINT UNIVERSAL IMPACT SCKT -- AUP5M6V
60. 1/4" DRIVE ADV 5/16" SAE 6 POINT UNIVERSAL IMPACT SCKT -- AUP106V
61. 1/4" DRIVE ADV 5.5MM METRIC 6 PT UNIVERSAL IMPACT SCKT -- AUP5.5M6V
62. 1/4" DRIVE ADV 3/8" SAE6 POINT UNIVERSAL IMPACT SOCKET -- AUP126V
63. 1/4" DRIVE ADV 15MM METRIC 6 PT UNIVERSAL IMPACT SCKT -- AUP15M6V
64. 1/4" DRIVE ADV 14MM METRIC 6 PT UNIVERSAL IMPACT SCKT -- AUP14M6V
65. 1/4" DRIVE ADV 13MM METRIC 6 PT UNIVERSAL IMPACT SCKT -- AUP13M6V
66. 1/4" DRIVE ADV 12MM METRIC 6 PT UNIVERSAL IMPACT SCKT -- AUP12M6V
67. 1/4" DRIVE ADV 11MM METRIC 6 PT UNIVERSAL IMPACT SCKT -- AUP11M6V
68. 1/4" DRIVE ADV 1/4" SAE 6 POINT UNIVERSAL IMPACT SOCKET -- AUP86V
69. 1/4" DRIVE ADV 1/2" SAE 6 POINT UNIVERSAL IMPACT SOCKET -- AUP166V
70. 1/4" DRIVE 9/16" SAE 6 POINT DEEP IMPACT SOCKET -- ADP186V
71. 1/4" DRIVE 7MM METRIC 6 POINT DEEP IMPACT SOCKET -- ADP7M6V

Item (2) – 3/4" Drive ADV 26 piece Metric 6 point Impact Socket Set – #SDPM266V

If items are sold separately, all 26 pieces below must be included in Item #2 pricing:

Socket set should have:

- an opti-torque system that applies torque to the fastener sides to reduce corner round off
- a 150° chamfer on the socket drive end for better grab, constant pressure for easier use
- high-visible size markings to quickly identify socket
 - Set includes:

1. 3/4" DRIVE 46MM METRIC 6 POINT IMPACT SOCKET -- DP46M6V
2. 3/4" DRIVE 40MM METRIC 6 POINT IMPACT SOCKET -- DP40M6V
3. 3/4" DRIVE 50MM METRIC 6 POINT IMPACT SOCKET -- DP50M6V
4. 3/4" DRIVE 24MM METRIC 6 POINT IMPACT SOCKET -- DP24M6V
5. 3/4" DRIVE 20MM METRIC 6 POINT IMPACT SOCKET -- DP20M6V
6. 3/4" DRIVE 21MM METRIC 6 POINT IMPACT SOCKET -- DP21M6V
7. 3/4" DRIVE 28MM METRIC 6 POINT IMPACT SOCKET -- DP28M6V
8. 3/4" DRIVE 30MM METRIC 6 POINT IMPACT SOCKET -- DP30M6V
9. 3/4" DRIVE 43MM METRIC 6 POINT IMPACT SOCKET -- DP43M6V
10. 3/4" DRIVE 22MM METRIC 6 POINT IMPACT SOCKET -- DP22M6V
11. 3/4" DRIVE 41MM METRIC 6 POINT IMPACT SOCKET -- DP41M6V
12. 3/4" DRIVE 23MM METRIC 6 POINT IMPACT SOCKET -- DP23M6V
13. 3/4" DRIVE 42MM METRIC 6 POINT IMPACT SOCKET -- DP42M6V
14. 3/4" DRIVE 29MM METRIC 6 POINT IMPACT SOCKET -- DP29M6V
15. 3/4" DRIVE 44MM METRIC 6 POINT IMPACT SOCKET -- DP44M6V
16. 3/4" DRIVE 31MM METRIC 6 POINT IMPACT SOCKET -- DP31M6V
17. 3/4" DRIVE 27MM METRIC 6 POINT IMPACT SOCKET -- DP27M6V
18. 3/4" DRIVE 32MM METRIC 6 POINT IMPACT SOCKET -- DP32M6V
19. 3/4" DRIVE 33MM METRIC 6 POINT IMPACT SOCKET -- DP33M6V
20. 3/4" DRIVE 26MM METRIC 6 POINT IMPACT SOCKET -- DP26M6V
21. 3/4" DRIVE 34MM METRIC 6 POINT IMPACT SOCKET -- DP34M6V
22. 3/4" DRIVE 35MM METRIC 6 POINT IMPACT SOCKET -- DP35M6V
23. 3/4" DRIVE 19MM METRIC 6 POINT IMPACT SOCKET -- DP19M6V
24. 3/4" DRIVE 36MM METRIC 6 POINT IMPACT SOCKET -- DP36M6V
25. 3/4" DRIVE 25MM METRIC 6 POINT IMPACT SOCKET -- DP25M6V
26. 3/4" DRIVE 38MM METRIC 6 POINT IMPACT SOCKET -- DP38M6V

Item (3) – 3/4" Drive ADV 29 piece SAE 6 point Impact Socket Set – #SDP296V

If items are sold separately, all 29 pieces below must be included in Item #3 pricing:

Socket Set should have:

- an opti-torque system that applies torque to the fastener sides to reduce corner round off
- a 150° chamfer on the socket drive end for better grab, constant pressure for easier use
- high-visible size markings to quickly identify socket
 - Set includes:

1. 3/4" DRIVE 2" SAE 6 POINT IMPACT SOCKET -- DP646V
2. 3/4" DRIVE 1-3/16" SAE 6 POINT IMPACT SOCKET -- DP386V
3. 3/4" DRIVE 2-3/16" SAE 6 POINT IMPACT SOCKET -- DP706V
4. 3/4" DRIVE 1-5/8" SAE 6 POINT IMPACT SOCKET -- DP526V
5. 3/4" DRIVE 7/8" SAE 6 POINT IMPACT SOCKET -- DP286V
6. 3/4" DRIVE 1-7/8" SAE 6 POINT IMPACT SOCKET -- DP606V
7. 3/4" DRIVE 1-9/16" SAE 6 POINT IMPACT SOCKET -- DP506V
8. 3/4" DRIVE 1-3/8" SAE 6 POINT IMPACT SOCKET -- DP446V
9. 3/4" DRIVE 2-1/16" SAE 6 POINT IMPACT SOCKET -- DP666V
10. 3/4" DRIVE 2-1/2" SAE 6 POINT IMPACT SOCKET -- DP806V
11. 3/4" DRIVE 2-1/4" SAE 6 POINT IMPACT SOCKET -- DP726V
12. 3/4" DRIVE 2-1/8" SAE 6 POINT IMPACT SOCKET -- DP686V

13. 3/4" DRIVE 2-7/16" SAE 6 POINT IMPACT SOCKET -- DP786V
14. 3/4" DRIVE 2-5/16" SAE 6 POINT IMPACT SOCKET --DP746V
15. 3/4" DRIVE 1-13/16" SAE 6 POINT IMPACT SOCKET -- DP586V
16. 3/4" DRIVE 1-15/16" SAE 6 POINT IMPACT SOCKET -- DP626V
17. 3/4" DRIVE 2-3/8" SAE 6 POINT IMPACT SOCKET -- DP766V
18. 3/4" DRIVE 1-3/4" SAE 6 POINT IMPACT SOCKET -- DP566V
19. 3/4" DRIVE 3/4" SAE 6 POINT IMPACT SOCKET -- DP246V
20. 3/4" DRIVE 1-1/16" SAE 6 POINT IMPACT SOCKET -- DP346V
21. 3/4" DRIVE 1-1/2" SAE 6 POINT IMPACT SOCKET -- DP486V
22. 3/4" DRIVE 1-1/4" SAE 6 POINT IMPACT SOCKET -- DP406V
23. 3/4" DRIVE 1-1/8" SAE 6 POINT IMPACT SOCKET -- DP366V
24. 3/4" DRIVE 1-11/16" 6 POINT IMPACT SOCKET 1-11/16" -- DP546V
25. 3/4" DRIVE 1-5/16" SAE 6 POINT IMPACT SOCKET -- DP426V
26. 3/4" DRIVE 1" SAE 6 POINT IMPACT SOCKET -- DP326V
27. 3/4" DRIVE 13/16" SAE 6 POINT IMPACT SOCKET -- DP266V
28. 3/4" DRIVE 1-7/16" SAE 6 POINT IMPACT SOCKET -- DP466V
29. 3/4" DRIVE 15/16" SAE 6 POINT IMPACT SOCKET -- DP306V

Item (4) – 1" Drive Impact Wrench (Silver Eagle) – #SE116

Wrench should have:

- adjustable torque power dial with four (4) settings
- D-shaped side handle
- chainsaw style handle
- rocking dog clutch
- durable aluminum housing with matte black finish
- air tool material - aluminum
- impact wrench style - straight
- 1,200ft. lbs. of working torque
- 2,700ft. lbs of breakaway torque
- 1,600ft. lbs of maximum working torque
- weight 25.7lbs & Length 22"
- 98.8 sound dB(a)
- 4000 RPM (free speed)
- ½" hose size (recommended)
- 10cfm average air consumption
- ½" air inlet thread size
- 1" drive size

Item (5) – 0-6" 6241 Depth Micrometer Base: 2.5" – #EQ6241

Micrometer should:

- make precision depth measurements
- measure hole depth, recesses and keyways
- have easy to read markings
- include a fitted case w/ calibrated rods
- have a base length of 2-1/2"

Item (6) – 124 piece Auto Master Tap and Die Set – #124MATDS

If items are sold separately, all 124 pieces below must be included in Item #6 pricing:

Set should include:

- a designed for technicians and includes automotive specific sizes
- screw extractors, SAE and metric taps and dies as well as number, letter and fractional HSS drill bits that pair with those all included sizes
- a ratchet that should quickly change between forward and reverse while using taps/dies without working a switch or flipping ratchet over (Rapid Select Ratchet)
- taps and dies that should be made from a forged and hardened tool steel alloy, and should withstand heavy use without fracturing
- M2 HSS drill bits feature a 135° split point tips to aid in hole starting and include reduced shanks above 3/8"
- adjustable tap holders and die holder feature a 3/4" (19mm) hex shape to be driven by included ratcheting tap wrench or standard sockets and wrenches
- sizes that should be legible and durable (roll stamped)
- weight 10lbs & Length 17.75"
 - Set includes:

1. Blow Molded Case, Pouch bag

2. **.339" (R) DRILL BIT -- HDR**
3. **.3580" (T) DRILL BIT -- HDT**
4. **.368" (U) DRILL BIT -- HDU**
5. **.413" (Z) DRILL BIT -- HDZRS**
6. **.348" (S) DRILL BIT -- HDSA**
7. **.0890" NO. 43 GAUGE DRILL BIT -- 43A**
8. **.0995" NO. 39 WIRE GAUGE DRILL BIT - 10 PACK -- 39A**
9. **.1065" NO. 36 GAUGE DRILL BIT -- 36A**
10. **.1285" NO. 30 GAUGE DRILL BIT -- 30A**
11. **.1360" NO. 29 GAUGE DRILL BIT -- 29A**
12. **.1495" NO. 25 GAUGE DRILL BIT -- 25A**
13. **.1590" NO. 21 GAUGE DRILL BIT -- 21A**
14. **.1610" NO. 21 GAUGE DRILL BIT -- 20A**
15. **.1660" NO. 19 GAUGE DRILL BIT -- 19A**
16. **.1770" NO. 16 GAUGE DRILL BIT -- 16A**
17. **.1960" NO. 9 GAUGE DRILL BIT -- 9A**
18. **.2010" NO. 7 GAUGE DRILL BIT -- 7A**
19. **.2130" NO. 3 GAUGE DRILL BIT -- 3A**
20. **.238" (B) DRILL BIT -- HDB**
21. **.257" (F) DRILL BIT -- HDF**
22. **.266" (H) DRILL BIT -- HDH**
23. **.272" (I) DRILL BIT -- HDI**
24. **.277" (J) DRILL BIT -- HDJ**
25. **.332" (Q) DRILL BIT -- HDQ**
26. **.316" (O) DRILL BIT -- HDO**
27. **METRIC PITCH GAUGE -- H1MT36MTG**
28. **DIE HOLDER -- H1MT37DH**
29. **1/8"-1/4" TAP HOLDER -- H1MT38TH**
30. **1/4"-1/2" TAP HOLDER -- H1MT39TH**

31. **RAPID SELECT RATCHET** -- H1MT40R
32. **1/8 NPT DIE** -- H1MT1827D
33. **1/2-20" DIE** -- H1MT1220D
34. **1/4" DRILL BIT (10)** -- HD1610A
35. **19/64" DRILL BIT** -- HD19A
36. **5/16" DRILL BIT** -- HD20A
37. **21/64" DRILL BIT** -- HD21A
38. **5/64" DRILL BIT (10)** -- HD510A
39. **7/64" DRILL BIT (10)** -- HD710A
40. **5/32" DRILL BIT (10)** -- HD1010A
41. **SCREW EXTRACTOR #3** -- EO3A
42. **SCREW EXTRACTOR #4** -- EO4A
43. **SCREW EXTRACTOR #5** -- EO5A
44. **3/8" DRILL BIT** -- HD24A
45. **25/64" DRILL BIT** -- HD2538A
46. **13/32" DRILL BIT** -- HD2638A
47. **27/64" DRILL BIT** -- HD2738A
48. **7/16" DRILL BIT** -- HD2838A
49. **29/64" DRILL BIT** -- HD2938A
50. **SCREW EXTRACTOR #1** -- EO1A
51. **SCREW EXTRACTOR #2** -- EO2A
52. **M3 X 0.5 DIE** -- H1MT305D
53. **M3 X 0.6 DIE** -- H1MT306D
54. **M4 X 0.7 DIE** -- H1MT407D
55. **M4 X 0.75 DIE** -- H1MT4075D
56. **M5 X 0.8 DIE** -- H1MT508D
57. **M5 X 0.9 DIE** -- H1MT509D
58. **M6 X 1.0 DIE** -- H1MT610D
59. **M7 X 1.0 DIE** -- H1MT710D
60. **M8 X 1.25 DIE** -- H1MT8125D
61. **M9 X 1.0 DIE** -- H1MT910D
62. **M9 X 1.25 DIE** -- H1MT9125D
63. **M10 X 1.25 DIE** -- H1MT10125D
64. **M10 X 1.5 DIE** -- H1MT1015D
65. **M11 X 1.5 DIE** -- H1MT1115D
66. **M12 X 1.5 DIE** -- H1MT1215D
67. **M12 X 1.75 DIE** -- H1MT12175D
68. **1/8 BSP28 DIE** -- H1MTBSP28
69. **4 NC40 TAP** -- H1MT440T
70. **6 NC32 TAP** -- H1MT632T
71. **8 NC32 TAP** -- H1MT832T
72. **10 NC24 TAP** -- H1MT1024T
73. **10 NF32 TAP** -- H1MT1032T
74. **12 NC24 TAP** -- H1MT1224T
75. **SCREW DRIVER** -- H1MT35SD
76. **SAE PITCH GAUGE** -- H1MT36STG
77. **M3 X 0.5 TAP** -- H1MT305T
78. **M3 X 0.6 TAP** -- H1MT306T
79. **M4 X 0.7 TAP** -- H1MT407T
80. **M4 X 0.75 TAP** -- H1MT4075T
81. **M12 X 1.25 DIE** -- H1MT12125D
82. **M8 X 1.0 TAP** -- H1MT810T
83. **M10 X 1.0 TAP** -- H1MT1010T
84. **M12 X 1.25 TAP** -- H1MT12125T

85. **M8 X 1.0 DIE** -- H1MT810D
 86. **M10 X 1.0 DIE** -- H1MT1010D
 87. **M5 X 0.8 TAP** -- H1MT508T
 88. **M5 X 0.9 TAP** -- H1MT509T
 89. **M6 X 1.0 TAP** -- H1MT610T
 90. **M7 X 1.0 TAP** -- H1MT710T
 91. **M10 X 1.25 TAP** -- H1MT10125T
 92. **1/2-13" DIE** -- H1MT1213D
 93. **7/16-20" DIE** -- H1MT71614D
 94. **7/16-14" DIE** -- H1MT71620D
 95. **3/8-24" DIE** -- H1MT3824D
 96. **3/8-16" DIE** -- H1MT3816D
 97. **5/16-24" DIE** -- H1MT51624D
 98. **5/16-18" DIE** -- H1MT51618D
 99. **1/4-28" DIE** -- H1MT1428D
 100. **1/4-20" DIE** -- H1MT1420D
 101. **12-24 DIE** -- H1MT1224D
 102. **10-32 DIE** -- H1MT1032D
 103. **8-32 DIE** -- H1MT832D
 104. **10-24 DIE** -- H1MT1024D
 105. **6-32 DIE** -- H1MT632D
 106. **4-40 DIE** -- H1MT440D
 107. **1/8" NPT27 TAP** -- H1MT1827T
 108. **1/2" NF20 TAP** -- H11220T
 109. **1/2" NC13 TAP** -- H1MT1213T
 110. **7/16" NF20 TAP** -- H1MT71620T
 111. **7/16" NC14 TAP** -- H1MT71614T
 112. **3/8" NF24 TAP** -- H1MT3824T
 113. **3/8" NC16 TAP** -- H1MT3816T
 114. **5/16" NF24 TAP** -- H1MT51624T
 115. **5/16" NC18 TAP** -- H1MT51618T
 116. **1/4" NF28 TAP** -- H1MT1428T
 117. **1/4" NC20 TAP** -- H1MT1420T
 118. **M10 X 1.5 TAP** -- H1MT1015T
 119. **M11 X 1.5 TAP** -- H1MT1115T
 120. **M8 X 1.25 TAP** -- H1MT8125T
 121. **M9 X 1.0 TAP** -- H1MT910T
 122. **M12 X 1.5 TAP** -- H1MT1215T
 123. **M12 X 1.75 TAP** -- H1MT12175T
 124. **1/8 BSP28 TAP** -- H1MT1828T

Item (7) – 3/4" Drive Manual Torque Wrench, 100-600Ft. LBS – #TRD600K

Wrench should have a/an:

- durable 72 tooth teardrop reversible ratchet head
- audible click and/or impulse when torque setting is reached
- dual scale, U.S. and metric readings
- anodized aluminum handle with non-slip diamond knurl
- retractable lock ring to prevent accidental change of torque setting
- guaranty to meet ISO 6789:2003 and ANSI Spec. B107.14M
- accuracy of: 3% CW, 5% CCW
- range (ft-lb) of 120-600ft. lbs

- graduation (ft-lb) of 2
- range (N-m) of 183.7-833.7
- graduation (N-m) of 2.7
- chrome finish, with a fixed head type
- weight 18lbs & length 40-9/16"
- drive O.D. of 72mm & size of ¾"

Item (8) – Composite Impact Wrench (1/2") – #MT2779

Wrench should have: (does not need to be burgundy-include color on Bid Form)

- high quality tip valve trigger design that provides precision when controlling torque and speed is necessary
- rotor design that improves tool life and power
- enlarged grease fitting to service the tool easier
- refined internals that provide maximum power with increased longevity
- large rear dial that is easy to turn to select forward torque for more control
- maximum power in reverse all the time
- rear forward/reverse controls
- air tool material - composite
- impact wrench style - pistol
- 1,600ft. lbs of breakaway torque
- 850ft. lbs of maximum working torque
- weight 4.5lbs & Length 7-5/16"
- 95.2 sound dB(a)
- 7500 RPM (free speed)
- 3/8" hose size (recommended)
- 4.9cfm average air consumption
- ¼" air inlet thread size
- ½" drive size
- 1250 blows per minute 1250

Item (9) – Impact Wrench (3/4") – #MT2234

Wrench should have a/an:

- variable speed control with 3 stage power regulator dial behind trigger
- one hand forward/reverse lever to accommodate both left and right-handed users
- front forward/reverse controls
- air tool material - composite
- impact wrench style - pistol
- 1,800ft. lbs of breakaway torque
- 1,200ft. lbs of maximum working torque
- weight 6.8lbs & Length 8"
- 97.3 sound dB(a)
- 6000 RPM (free speed)
- 1/2" hose size (recommended)
- 6.9cfm average air consumption
- 3/8" air inlet thread size
- 3/4" drive size
- 1250 blows per minute 1250

Item (10) – 0-6" Outside Inch Micrometer Set w/ Case – #52-253-600-1

Set should have:

- distinct figures and graduations on the non-glare, satin chrome background to permit easy reading, and the ribbed frame allows for measuring w/ extra ease and comfort.
- 0-6" range
- a carbide tipped measuring faces
- 0.001" graduation
- 0.256" diameter of measuring faces
- a positive locking screw
- anvil and spindle hardened and precision ground w/ microlap finish on tips
- standard w/ sizes 2" and over

Item (11) – 0-6"/0 – 150mm Electronic Coolant Resistant Micrometer Set – #54-860-106-1

Set should have:

- should protect to IP54 specifications
- have a large LCD Display
- have an automatic off switch
- have a resolution of 0.00005"/0.001mm
- have direct RS-232 output
- have carbide measuring faces
- have absolute & incremental modes
- have sizes over 1"/25mm include standard

Item (12) – Heavy-Duty Diesel Compression Set – #DCT1570

Compression set should:

- have compression tester and adapters to test autos, trucks and heavy-duty equipment
- be able to service Cummins, Volkswagen, Volvo, Allis-Chalmers, Bedford, I.I. Case, John Deere, International Harvester, Mack, Massey-Ferguson, Mitsu-Fuso, Scania, White Farm and Detroit Diesel

Item (13) – 4S Triple Bay 25" ToolBox w/ Power – Black w/ Black Trim– #4325RP-BBB

ToolBox should have:

- fully welded T shaped center shelf
- 140 lb. roller bearing drawer slides
- power on the front of the box with 110 V and USB power
- power drawer standard with 110 V and USB power
- 6" 900lb. chrome hub casters
- 3 bays
- 16 drawers
- plastic handle trim
- dimensions: 25 " D x 42.41" H x 72.125" W
- capacity: 30,380" (cubic inches) & 7,252" (square inches)

Item (14) – 4S Double Bay 25" ToolBox – Silver vein w/ Black Trim– #4225RX-SSB

ToolBox should have:

- fully welded T shaped center shelf
- 140 lb. roller bearing drawer slides
- 6" 600lb. standard casters
- 2 bays
- 10 drawers
- plastic handle trim
- dimensions: 25 " D x 42.09" H x 55.81" W
- capacity: 25,835" (cubic inches) & 6,490" (square inches)

Item (15) – Side Terminal Charge and Booster Adapters – #311

Item should:

- be nickel-plated steel adapters that snap on to terminals
- fit all OEM and replacement terminals
- have 500 amp capacity

Item (16) – 7" Long Cold Chisel (5/8" x 3/4") – #LC247A

Chisel should:

- be high-grade, shock resistant tool steel, and heat-treated for the right balance of hardness, strength, and durability
- have cutting edges that are hot-forged and swaged for maximum strength and precision
- dimensions: 7" L x 3/4" W x 5/8" size

Item (17) – 6-1/2" Long Cold Chisel (1/2" x 5/8") – #LC206A

Chisel should:

- be high-grade, shock resistant tool steel, and heat-treated for the right balance of hardness, strength, and durability
- have cutting edges that are hot-forged and swaged for maximum strength and precision
- dimensions: 6-1/2" L x 5/8" W x 1/2" size

Item (18) – Punch and Chisel Holder – #PCHOC

- Holder should protect hands from bumps, bruises and busted knuckles

Item (19) – 15 piece Metric Combination Wrench Set - #SMCM152K

If items are sold separately, all 15 pieces below must be included in Item #19 pricing:

Wrench Set should:

- have a 15° knuckle offset
- stop corner round off, remove fasteners up to 40% faster, non-slip open end that works in both directions without reversing the wrench
- be forged from higher carbon steel and the same heat-treating process used in manufacturing jet landing gear
- have an Anvil drive box end that can be used to loosen or tighten many 6 point, 12 point, spline, TORX, square and fasteners rounded up to 50%
- be Metric scale, Static series, Combo type wrench, and have 12points
 - Set includes wrenches: 6mm - 20mm

1. **15MM COMBINATION WRENCH** -- MC15M2K
2. **18MM COMBINATION WRENCH** -- MC18M2K
3. **13MM COMBINATION WRENCH** -- MC13M2K
4. **12MM COMBINATION WRENCH** -- MC12M2K
5. **11MM COMBINATION WRENCH** -- MC11M2K
6. **10MM COMBINATION WRENCH** -- MC10M2K
7. **9MM COMBINATION WRENCH** -- MC9M2K
8. **8MM COMBINATION WRENCH** -- MC8M2K
9. **7MM COMBINATION WRENCH** -- MC7M2K
10. **6MM COMBINATION WRENCH** -- MC6M2K
11. **16MM COMBINATION WRENCH** -- MC16M2K
12. **17MM COMBINATION WRENCH** -- MC17M2K
13. **20MM COMBINATION WRENCH** -- MC20M2K
14. **19MM COMBINATION WRENCH** -- MC19M2K
15. **14MM COMBINATION WRENCH** -- MC14M2K

Item (20) – 5 piece Long Metric Combination Wrench Set - #SMCLM52K

If items are sold separately, all 5 pieces below must be included in Item #20 pricing:

Wrench Set should:

- have a 15° knuckle offset
- stop corner round off, remove fasteners up to 40% faster, non-slip open end that works in both directions without reversing the wrench
- be forged from higher carbon steel and the same heat-treating process used in manufacturing jet landing gear
- have an Anvil drive box end that can be used to loosen or tighten many 6 point, 12 point, spline, TORX, square and fasteners rounded up to 50%
- should be Metric scale, Static series, Combo type wrench, and have 12points
 - Set includes wrenches: 20mm - 24mm

1. **23MM LONG COMBINATION WRENCH -- MCL23M2K**
2. **24MM LONG COMBINATION WRENCH -- MCL24M2K**
3. **22MM LONG COMBINATION WRENCH -- MCL22M2K**
4. **21MM LONG COMBINATION WRENCH -- MCL21M2K**
5. **20MM LONG COMBINATION WRENCH -- MCL20M2K**

Item (21) – 13 piece Standard SAE Combination Wrench Set - #SMC132K

If items are sold separately, all 13 pieces below must be included in Item #21 pricing:

Wrench Set should:

- have a 15° knuckle offset
- stop corner round off, remove fasteners up to 40% faster, non-slip open end that works in both directions without reversing the wrench
- be forged from higher carbon steel and the same heat-treating process used in manufacturing jet landing gear
- have an Anvil drive box end that can be used to loosen or tighten many 6 point, 12 point, spline, TORX, square and fasteners rounded up to 50%
- should be SAE scale, Static series, Combo type wrench, and have 12points
 - Set includes:

1. **3/8" SHORT COMBINATION WRENCH -- MC122K**
2. **11/32" SHORT COMBINATION WRENCH -- MC112K**
3. **7/16" SHORT COMBINATION WRENCH -- MC142K**
4. **15/16" SHORT COMBINATION WRENCH -- MC302K**
5. **1/4" SHORT COMBINATION WRENCH -- MC82K**
6. **7/8" SHORT COMBINATION WRENCH -- MC282K**
7. **13/16" SHORT COMBINATION WRENCH -- MC262K**
8. **3/4" SHORT COMBINATION WRENCH -- MC242K**
9. **11/16" SHORT COMBINATION WRENCH -- MC222K**
10. **5/8" SHORT COMBINATION WRENCH -- MC202K**
11. **9/16" SHORT COMBINATION WRENCH -- MC182K**
12. **1/2" SHORT COMBINATION WRENCH -- MC162K**
13. **5/16" SHORT COMBINATION WRENCH -- MC102K**

Item (22) – 4 piece Long SAE Combination Wrench Set - #SMCL42K

If items are sold separately, all 4 pieces below must be included in Item #22 pricing:

Wrench Set should:

- have a 15° knuckle offset
- stop corner round off, remove fasteners up to 40% faster, non-slip open end that works in both directions without reversing the wrench
- be forged from higher carbon steel and the same heat-treating process used in manufacturing jet landing gear

- have an Anvil drive box end that can be used to loosen or tighten many 6 point, 12 point, spline, TORX, square and fasteners rounded up to 50%
- should be SAE scale, Static series, Combo type wrench, and have 12points
 - Set includes:
 1. **1-1/8" LONG COMBINATION WRENCH -- MCL362K**
 2. **1-1/4" LONG COMBINATION WRENCH -- MCL402K**
 3. **1-1/16" LONG COMBINATION WRENCH -- MCL342K**
 4. **1" LONG COMBINATION WRENCH -- MCL322K**

Item (23) – Tech Multimeter – #MD257

Multimeter should have:

- readings for volts, amps and ohms required for automotive electrical system tests as well as diode and continuity tests
- Lo-Z ghost voltage buster drains ghost voltages leaving only hard signals on meter readings
- beep-Jack audible safety warning beeps against improper a-terminal plug in and decreases the risk of damage
- DCV and ACV: 0.1V - 1,000V
- DCA and ACA: 0.1 mA to 8A (15A for 30 sec. max with 5 minutes cool down interval)
- Ohms: 0.1 to 60M
- Line level frequency: 10.00Hz to 10.00kHz
- Logic level frequency: 5.00Hz to 1.000MHz
- -50°C low & 1000°C high temperature reading
- 300 Cat IV (Volts)
- 600 Cat III (Volts)
- 60-3,000 Capacitance
- 6000 counts
- an automatic shut off, true RMS, backlight, continuity/diode test, and auto-ranging

Item (24) – Safety Glasses (Defiant Jumbo) – #SB1010SJ

Glasses should have:

- tilt type adjustment to allow optimum visibility
- four (4) adjustable temple settings
- capability to fit over prescription lenses

Lens should:

- jumbo size clear, polycarbonate, scratch resistant
- be for general purposes for indoor applications and have impact protection
- have wrap around design with side protection
- have 96% visible light transmitted (380-780nm)
- have 99%-100% UVA, UVB blocked (200-380nm)
- have 9% Blue light blocked (400-700nm)
- have 18% IR blocked (780-2000nm)

Item (25) – 4 piece Combo File Set (8") - #CF48SGB

If items are sold separately, all 4 pieces below must be included in Item #25 pricing:

File Set should: (does not need to be green-include color on Bid Form)

- have different shapes for multiple applications
- be ideal for shaping, sharpening, cleaning out corners and many other material removal needs
- have a carbon steel shaft, be 8" in length, have a folding case/pouch/bag
- allow for fast and easy material removal from workpiece and has a rust preventing coating
- have an ergonomic handle made of PP + TPR for hand comfort and help reduce user fatigue
 - Set includes:

1. **SLIM TAPER FILE – GREEN -- STF8GHB**
2. **ROUND BASTARD FILE - GREEN -- RBF8GHB**
3. **MILL BASTARD FILE - GREEN -- MBF8GHB**
4. **HALF ROUND BASTARD FILE – GREEN -- HRB8GHB**

Item (26) – 6 piece Flarenut Wrench Set - #SRFM66TC

If items are sold separately, all 6 pieces below must be included in Item #26 pricing:

Wrench set should have:

- a durable, non-slip design with radiused corners and 270° engagement on fastener to prevent slipping and rounding
- an optimized torque transfer design that's angled for access
- a mirror polished chrome finish
- an 11.5" length
 - Set includes:

1. **19MM X 21MM FLARENUT WRENCH -- RFM1921C**
2. **9MM X 11MM FLARENUT WRENCH -- RFM911C**
3. **15MM X 17MM FLARENUT WRENCH -- RFM1517C**
4. **13MM X 14MM FLARENUT WRENCH -- RFM1314C**
5. **10MM X 12MM FLARENUT WRENCH -- RFM1012C**
6. **16MM X 18MM FLARENUT WRENCH -- RFM1618C**

Item (27) – 4 piece SAE Flarenut Wrench Set - #SRF46TC

If items are sold separately, all 4 pieces below must be included in Item #27 pricing:

Wrench Set should have:

- a durable, non-slip design with radiused corners and 270° engagement on fastener to prevent slipping and rounding
- an optimized torque transfer design that's angled for access
- a mirror polished chrome finish
- an 11-1/2" blade length

○ Set includes:

1. **3/ 8X 7/16 FLARENUT WRENCH -- RF12146C**
2. **5/8 X 11/16 FLARENUT WRENCH -- RF20226C**
3. **3/4 X 7/8 FLARENUT WRENCH -- RF24286C**
4. **1/2 X 9/16 FLARENUT WRENCH -- RF16186C**

Item (28) – Stylus Pro USB Rechargeable Penlight (black) – #M95225

Penlight should:

- be sleek and compact to allow the flexibility of charging on the go using the USB cord or the compact AC wall adapter
- have C4 LED that produces up to 350 lumens, 2,950 candela (90 low & 250 high lumens)
- have a Li-Ion battery that recharges in 2.5 hours and is rechargeable up to 300 times
- have a 3.5hrs of low and 1.5hrs of high run time
- have fully regulated output for consistent lumen performance over the battery life
- include a removable pocket clip and tear resistant nylon holster
- 6.15" in length

Item (29) – Adjustable Tension Hacksaw Frame – #HS40

Hacksaw frame should:

- have a heavy-duty yet lightweight aluminum construction with rectangular steel crossbar
- have saw tensions up to 30,000psi and be easily adjusted with a special steel tensioning nut and fold-away lever
- be multi-purpose: Blade can be mounted at 90° and 45° for flush cutting applications
- come complete with 12" HSS cobalt hacksaw blade
- can store up to 10 blades in the tubular steel frame

Item (30) – Bi-Metal Hacksaw Blades – 24 TPI (10 pack) – #HB1224

Blades should:

- be super-efficient and shatterproof for superior cutting performance, wear resistance and safety; ideal for use on tough materials
- be comprised of a high speed, steel cutting edge electron beam welded to a tough spring steel back
- have a high speed, steel cutting edge with well-formed tooth profile that is precisely milled, hardened and tempered providing quicker, cleaner and efficient cuts
- have 6 teeth chip removal cycle and individual tooth setting, with nearly 30% more cutting power, cleaner cutting and also prevents teeth from binding in with material being cut
- be bi-metal 8% cobalt – HSS which enhances the hardness to 66-68 HRC
- dimensions: width: 1/2" (12.5mm) & thickness: 0.025" (0.63mm)

Item (31) – 16oz Ball Peen Hammer w/ Fiberglass Handle - #BH16F

Hammer should have a:

- cushion fiberglass handle to absorb shock and provide a secure and slip resistant grip
- head made of high carbon content steel with precision heat treatment for durability and safety
- dimensions: 1lbs W x 13" L

Item (32) – 24oz Ball Peen Hammer w/ Fiberglass Handle - #BH24F

Hammer should have a:

- cushion-grip handle that absorbs shock
- heat treated, carbon steel head w/ an octagon finish in black
- dimensions: 1.5lbs W x 14" L

Item (33) – Soft-Face Replaceable Tip Hammer - #PH25

Hammer should have:

- one tough and one medium-hard replaceable tip
- a continuous strand fiberglass handle with cushion grip
- additional non-marring tips, soft, medium and hard available
- Dimensions: .75lbs W x 12" L , face diameter of 1-1/4"

Item (34) – Padded Ear Muff - NRR 27DB - #PM3010

Ear Muff should:

- be NRR 27 dB
- have soft foam ear cups
- be adjustable to fit all sizes
- have a fold-away padded headband

Item (35) – 17 piece Long Hex Key (.029-5/8") - #SHKL17

If items are sold separately, all 17 pieces below must be included in Item #35 pricing:

Set should be:

- high quality industrial grade professional tool
- made with proprietary alloy steel, heat treated for optimal strength and ductility with black finish to resist rust
- standard socket length and Universal socket type
- standard specs, 6 points
- length of 10-1/2"

- Set includes:

1. **HEX L-KEY, LONG 9/64"** -- HKL964
2. **HEX L-KEY, LONG 5/32"** -- HKL532
3. **HEX L-KEY, LONG 7/32"** -- HKL732
4. **HEX L-KEY, LONG 1/4"** -- HKL14
5. **HEX L-KEY, LONG 5/16"** -- HKL516
6. **HEX L-KEY, LONG 3/8"** -- HKL38
7. **HEX L-KEY, LONG 1/2"** -- HKL12
8. **HEX L-KEY, LONG 1/8"** -- HKL18
9. **HEX L-KEY, LONG 7/64"** -- HKL764
10. **HEX L-KEY, LONG 3/32"** -- HKL332
11. **HEX L-KEY, LONG 5/64"** -- HKL564
12. **HEX L-KEY, LONG 1/16"** -- HKL116
13. **HEX L-KEY, LONG .050"** -- HKL050
14. **HEX L-KEY, LONG .035"** -- HKL035
15. **HEX L-KEY, LONG 5/8"** -- HKL58
16. **HEX L-KEY, LONG 9/16"** -- HKL916
17. **HEX L-KEY, LONG 3/16"** -- HKL316

Item (36) – 14 piece Long Hex Key (0.9-17mm) - #SHKLM14

If items are sold separately, all 14 pieces below must be included in Item #36 pricing:

Set should be:

- made with proprietary alloy steel, heat treated for optimal strength and ductility with black finish to resist rust
- include a metal storage box
- standard socket length and Universal socket type
- metric specs, 6 points
- length of 10-4/9"
 - Set includes:

1. **HEX L-KEY, LONG .9MM** -- HKM09
2. **HEX L-KEY, LONG 1.3MM** -- HKM13
3. **HEX L-KEY, LONG 1.5MM** -- HKM15
4. **HEX L-KEY, LONG 2MM** -- HKM2
5. **HEX L-KEY, LONG 2.5MM** -- HKM25
6. **HEX L-KEY, LONG 3MM** -- HKM3
7. **HEX L-KEY, LONG 4MM** -- HKM4
8. **HEX L-KEY, LONG 5MM** -- HKM5
9. **HEX L-KEY, LONG 6MM** -- HKM6
10. **HEX L-KEY, LONG 8MM** -- HKM8
11. **HEX L-KEY, LONG 10MM** -- HKM10
12. **HEX L-KEY, LONG 12MM** -- HKM12
13. **HEX L-KEY, LONG 14MM** -- HKM14
14. **HEX L-KEY, LONG 17MM** -- HKM17

Item (37) – Round Telescoping Inspection Mirror (1-1/4”) – #HTE2T

Mirror should have:

- telescope product length of 7-1/2” and a maximum length of 27-1/2”
- a replaceable clear glass mirror with a brushed finish stainless steel back
- precision engineered links of tempered spring steel to withstand stress of constant repositioning, move freely and hold desired position
- a textured cushion grip that keeps handle secure in wet or oily hands
- angle specs, with a round mirror shape and a mirror head size of 1-1/4”

Item (38) – Pocket Rule (6”) – #SR6CMB

Rule should:

- be a flexible pocket rule with flexible clip
- be a ruler measurement tool w/ 0-15cm range, no digital display
- graduate in 1/64”
- be stainless steel

Item (39) – Telescoping Magnetic Pick Up Tool – #MM32

Tool should have:

- powercap lifts 2-1/2 lbs
- all-angle ball joint that holds mirror head firmly at any angle
- telescopes from 6-1/2” to 33-1/4”
- a stainless steel handle that is long, strong and lightweight
- a heavy-duty grip to not slip in wet or oily hands
- no angle specs or flexibility
- a pocket clip

Item (40) – 4 piece Universal Pliers Set - #SPU4M

If items are sold separately, all 4 pieces below must be included in Item #40 pricing:

Plier set should have: (does not need to be green or orange-include color on Bid Form)

- versatility in cutting, turning or holding
- slim heads and solid flush rivets to allow for access in tight places
- induction hardened edges for long cutting life
- alloy steel forged pliers for longer life and strength
- full polish finish with superior coating for protection
- diamond pattern gripping surfaces for better retention without slip
- double dipped ergo grip handles for additional comfort
 - Set includes:

1. **9-1/2" GROOVE JOINT PLIERS-GREEN -- PGJ9M**
2. **7-1/2" NEEDLE NOSE CUTTING PLIERS-ORANGE -- PNNC7M**
3. **7" HEAVY-DUTY DIAGONAL CUTTERS-ORANGE -- PHDD7M**
4. **8" SLIP JOINT PLIERS-ORANGE -- PSJ8M**

Item (41) – 3 piece Locking Pliers Set - #SMLP3

If items are sold separately, all 3 pieces below must be included in Item #41 pricing:

Pliers should:

- have an easy to use release lever
 - provide high performance and quality
 - Set includes:
1. **6" NEEDLE NOSE LOCKING PLIERS -- MLNN6**
 2. **5" LOCKING PLIERS W/CUTTER -- MLCJC5**
 3. **10" LOCKING PLIERS W/CUTTER -- MLCJC10**

Item (42) – Non-Insulated Crimper Tool (9-3/4") – #TCT11B

Tool should be: (does not need to be orange-include color on Bid Form)

- a pliers-style electrician's hand tool that's ideal for installing A, B and C series wire joints from 10 to 22 AWG
- 9-3/4" overall length
- manufactured from high grade chromemoly material

Item (43) – Adjustable Wrench (10") – #AJW10A

Wrench should:

- be strong, comfortable, and adjustable
- be 9.88" in length and have 1.25" maximum jaw capacity
- have hot-forged steel jaws that are specialty heat-treated for needed strength in removing or holding fasteners with laser-etched scale for fastener measurement

Item (44) – 6 piece Roll Pin Punch Set - #SPRP6K

If items are sold separately, all 6 pieces below must be included in Item #44 pricing:

- Punch set should have centers on the roll pin to protect pin or hole wall
 - Set includes:
1. **3/16", 4-1/2" LONG ROLL PIN PUNCH -- PRP65**
 2. **1/8", 4" LONG ROLL PIN PUNCH -- PRP44**
 3. **5/16", 6" LONG ROLL PIN PUNCH -- PRP106**
 4. **1/4", 5-1/2" LONG ROLL PIN PUNCH -- PRP86**
 5. **5/32", 4-1/2" LONG ROLL PIN PUNCH -- PRP55**
 6. **3/32", 3-1/2" LONG ROLL PIN PUNCH -- PRP34**

Item (45) – 3 piece Brass Pin Punch Set - #SPPB3K

If items are sold separately, all 3 pieces below must be included in Item #45 pricing:

- Punch set should be for harder surfaces not affected by softer brass punches and is Non-Sparking
 - Set includes:
 1. **5/16", 5" LONG BRASS PIN PUNCH -- PPB105**
 2. **3/8", 6" LONG BRASS PIN PUNCH -- PPB126**
 3. **1/4", 4" LONG BRASS PIN PUNCH -- PPB84**

Item (46) – Center Punch (3MM) – #SLP52A

Tool should:

- be a 3mm replacement center punch
- be chrome vanadium w/ a black oxide finish
- be hardened to 47-55 Rockwell
- weigh 1lb.

Item (47) – 5 piece Long Tapered Drift Punch Set - #SPDL5KA

If items are sold separately, all 5 pieces below must be included in Item #47 pricing:

- Punch set should be of longer drift punch sizes for hard-to-reach applications
 - Set includes:
 1. **5/16" X 1/8", 8" LONG TAPERED DRIFT PUNCH -- PDL410A**
 2. **1/2" X 1/4", 14" LONG TAPERED DRIFT PUNCH -- PDL814A**
 3. **1/4" X 3/32", 8" LONG TAPERED DRIFT PUNCH -- PDL38A**
 4. **3/8" X 3/16", 12" LONG TAPERED DRIFT PUNCH -- PDL612A**
 5. **5/8" X 5/16", 16" LONG TAPERED DRIFT PUNCH -- PDL1016A**

Item (48) – Long Scraper (1-1/2" wide x 10" long) – #SC486RB

Scraper should: (does not need to be red - include color on Bid Form)

- have a 5-1/4" straight blade that provides hand clearance and better scraping force in hard-to-reach places
- have a blade that is ground for a sharp edge that can be re-sharpened after heavy use to return cutting edge to its original sharpness
- have a composite handle that is ergonomically designed and durable capped ends for a solid striking surface

Item (49) – 10 piece Top Torque II Screwdriver Set - #SSPCR10C

If items are sold separately, all 10 pieces below must be included in Item #49 pricing:

Screwdriver set should have: (does not need to be red - include color on Bid Form)

- an optimum turning power and torque with 3-sided ergonomic, slip resistant microfiber handle
 - a high-alloy German steel blade for strength, long-lasting & lightweight
 - forged butterfly shank molded into handle for durability and blades should not turn in the handle, pound through or pull out
 - a precision identifiable machined tip that will not chip off
 - standard type screwdriver: Phillips & Slotted
 - Set includes:
1. **1/4" X 4" SLOT SCREWDRIVER – RED -- SPR84CB**
 2. **1/4" X 7" SCREWDRIVER PHILLIPS P2 – RED -- SPR87P2CA**
 3. **3/16" X 3" SCREWDRIVER PHILLIPS P1 – RED -- SPR63P1CA**
 4. **1/4" X 1" STUBBY PHILLIPS P2 – RED -- SR81P2BA**
 5. **3/16" X 3" SLOT SCREWDRIVER – RED -- SPR63CB**
 6. **1/4" X 1" SLOT STUBBY SCREWDRIVER – RED -- SR82BA**
 7. **3/8" X 8" SLOTTED SCREWDRIVER RED -- SPR128CB**
 8. **5/16" X 6" SLOTTED SCREWDRIVER RED -- SPR106CB**
 9. **5/16" X 6" SCREWDRIVER PHILLIPS P3 – RED -- SPR106P3CA**
 10. **1/4" X 4" SCREWDRIVER PHILLIPS P2 – RED --SPR84P2CA**

Item (50) – 3/8" Drive ADV 12 piece SAE 12 point Impact Socket Set – #SBP122V

If items are sold separately, all 12 pieces below must be included in Item #50 pricing:

Socket set should have:

- an opti-torque system that applies torque to the fastener sides to reduce corner round off
 - a 150° chamfer on the socket drive end for better grab, constant pressure for easier use
 - high-visible size markings to quickly identify socket
 - a parallel nose down design for tight areas
 - been cold-formed from a high-performance alloy steel for durability
 - Set includes:
1. **3/8" DRIVE 9/16" SAE ADV 12 POINT IMPACT SOCKET -- BP182V**
 2. **3/8" DRIVE 3/8" SAE 12 POINT IMPACT SOCKET -- BP122V**
 3. **3/8" DRIVE 7/16" SAE ADV 12 POINT IMPACT SOCKET -- BP142V**
 4. **3/8" DRIVE 5/8" SAE ADV 12 POINT IMPACT SOCKET -- BP202V**
 5. **3/8" DRIVE 5/16" SAE 12 POINT IMPACT SOCKET -- BP102V**
 6. **3/8" DRIVE 3/4" SAE 12 POINT IMPACT SOCKET -- BP242V**
 7. **3/8" DRIVE 15/16" SAE 12 POINT IMPACT SOCKET -- BP302V**
 8. **3/8" DRIVE 13/16" SAE ADV 12 POINT IMPACT SOCKET -- BP262V**
 9. **3/8" DRIVE 11/16" SAE 12 POINT IMPACT SOCKET -- BP222V**
 10. **3/8" DRIVE 1" SAE 12 POINT IMPACT SOCKET -- BP322V**
 11. **3/8" DRIVE 7/8" SAE 12 POINT IMPACT SOCKET -- BP282V**
 12. **3/8" DRIVE 1/2" SAE ADV 12 POINT IMPACT SOCKET -- BP162V**

Item (51) – Eighty8 Tooth Locking Flex Chrome Ratchet (1/4" drive 6-1/4") – #AFR68LF

Ratchet should have a:

- 1/4" drive size and 6-1/4" in length
- 88 gear teeth that produces a swing arc just over 4°, to allow faster work in the most compact spaces
- 9 position locking flex head that maintains the desired position regardless of size or applied load
- slim profile and a streamlined teardrop ratchet head for better access in compact areas
- recessed shift lever to prevent accidental shifting
- positive stop feature that will prevent any over travel or lock up while switching

Item (52) – 3/8" Drive ADV 12 piece SAE 6 point Deep Impact Socket Set – #SBDP126V

If items are sold separately, all 12 pieces below must be included in Item #52 pricing:

Socket set should have:

- an opti-torque system that applies torque to the fastener sides to reduce corner round off
- a 150° chamfer on the socket drive end for better grab, constant pressure for easier use
- high-visible size markings to quickly identify socket
 - Set includes:

1. **3/8" DRIVE 3/4" SAE 6 POINT DEEP IMPACT SOCKET -- BDP246V**
2. **3/8" DRIVE 3/8" SAE 6 POINT DEEP IMPACT SOCKET -- BDP126V**
3. **3/8" DRIVE 5/16" SAE 6 POINT DEEP IMPACT SOCKET -- BDP106V**
4. **3/8" DRIVE 5/8" SAE 6 POINT DEEP IMPACT SOCKET -- BDP206V**
5. **3/8" DRIVE 7/16" SAE 6 POINT DEEP IMPACT SOCKET -- BDP146V**
6. **3/8" DRIVE 9/16" SAE 6 POINT DEEP IMPACT SOCKET -- BDP186V**
7. **3/8" DRIVE 1" SAE 6 POINT DEEP IMPACT SOCKET -- BDP326V**
8. **3/8" DRIVE 11/16" SAE 6 POINT DEEP IMPACT SOCKET -- BDP226V**
9. **3/8" DRIVE 13/16" SAE 6 POINT DEEP IMPACT SOCKET -- BDP266V**
10. **3/8" DRIVE 15/16" SAE 6 POINT DEEP IMPACT SOCKET -- BDP306V**
11. **3/8" DRIVE 1/2" SAE 6 POINT DEEP IMPACT SOCKET -- BDP166V**
12. **3/8" DRIVE 7/8" SAE 6 POINT DEEP IMPACT SOCKET -- BDP286V**

Item (53) – 3/8" Drive ADV 13 piece Metric 6 point Impact Socket Set – #SBPM136V

If items are sold separately, all 13 pieces below must be included in Item #53 pricing:

Socket set should have:

- an opti-torque system that applies torque to the fastener sides to reduce corner round off
- a 150° chamfer on the socket drive end for better grab, constant pressure for easier use
- high-visible size markings to quickly identify socket
 - Set includes:

1. **3/8" DRIVE 14MM METRIC 6 POINT IMPACT SOCKET -- BP14M6V**
2. **3/8" DRIVE 10MM METRIC 6 POINT DEEP IMPACT SOCKET -- BP10M6V**
3. **3/8" DRIVE 13MM METRIC 6 POINT IMPACT SOCKET -- BP13M6V**
4. **3/8" DRIVE 15MM METRIC 6 POINT IMPACT SOCKET -- BP15M6V**
5. **3/8" DRIVE 19MM METRIC 6 POINT IMPACT SOCKET -- BP19M6V**
6. **3/8" DRIVE 8MM METRIC 6 POINT IMPACT SOCKET -- BP8M6V**
7. **3/8" DRIVE 16MM METRIC 6 POINT IMPACT SOCKET -- BP16M6V**
8. **3/8" DRIVE 11MM METRIC 6 POINT IMPACT SOCKET -- BP11M6V**
9. **3/8" DRIVE 18MM METRIC 6 POINT IMPACT SOCKET -- BP18M6V**
10. **3/8" DRIVE 17MM METRIC 6 POINT IMPACT SOCKET -- BP17M6V**
11. **3/8" DRIVE 9MM METRIC 6 POINT IMPACT SOCKET -- BP9M6V**
12. **3/8" DRIVE 7MM METRIC 6 POINT IMPACT SOCKET -- BP7M6V**
13. **3/8" DRIVE 12MM METRIC 6 POINT IMPACT SOCKET -- BP12M6V**

Item (54) – 3/8" Drive ADV 13 piece Deep Metric 6 point Impact Socket Set – #SBDPM136V

If items are sold separately, all 13 pieces below must be included in Item #54 pricing:

Socket set should have:

- an opti-torque system that applies torque to the fastener sides to reduce corner round off
- a 150° chamfer on the socket drive end for better grab, constant pressure for easier use
- high-visible size markings to quickly identify socket
 - Set includes:

1. **3/8" DRIVE 12MM METRIC 6 POINT DEEP IMPACT SOCKET -- BDP12M6V**
2. **3/8" DRIVE 18MM METRIC 6 POINT DEEP IMPACT SOCKET -- BDP18M6V**
3. **3/8" DRIVE 11MM METRIC 6 POINT DEEP IMPACT SOCKET -- BDP11M6V**
4. **3/8" DRIVE 8MM METRIC 6 POINT DEEP IMPACT SOCKET -- BDP8M6V**
5. **3/8" DRIVE 14MM METRIC 6 POINT DEEP IMPACT SOCKET -- BDP14M6V**
6. **3/8" DRIVE 15MM METRIC 6 POINT DEEP IMPACT SOCKET -- BDP15M6V**
7. **3/8" DRIVE 17MM METRIC 6 POINT DEEP IMPACT SOCKET -- BDP17M6V**
8. **3/8" DRIVE 19MM METRIC 6 POINT DEEP IMPACT SOCKET -- BDP19M6V**
9. **3/8" DRIVE 13MM METRIC 6 POINT DEEP IMPACT SOCKET -- BDP13M6V**
10. **3/8" DRIVE 9MM METRIC 6 POINT DEEP IMPACT SOCKET -- BDP9M6V**
11. **3/8" DRIVE 7MM METRIC 6 POINT DEEP IMPACT SOCKET -- BDP7M6V**
12. **3/8" DRIVE 16MM METRIC 6 POINT DEEP IMPACT SOCKET -- BDP16M6V**
13. **3/8" DRIVE 10MM METRIC 6 POINT DEEP IMPACT SOCKET -- BDP10M6V**

Item (55) – Eighty8 Tooth Locking Flex Chrome Ratchet (3/8" drive 12") – #BFR128LF

Ratchet should have a:

- 3/8" drive size and 11-1/2" in length
- 88 gear teeth that produces a swing arc just over 4°, to allow faster work in the most compact spaces
- 9 position locking flex head that maintains the desired position regardless of size or applied load
- slim profile and a streamlined teardrop ratchet head for better access in compact areas
- recessed shift lever to prevent accidental shifting
- positive stop feature that will prevent any over travel or lock up while switching

Item (56) – 6 piece 3/8" Drive ADV Extension & Adapter Set – #SBX6V

If items are sold separately, all 6 pieces below must be included in Item #56 pricing:

Adapter set should have:

- 2 reducers to change 3/8" to 1/4" or 1/2" drive
 - a universal joint to help access hard to reach fasteners
 - 3 extensions for maximum applications
 - Set includes:
1. **3/8" DRIVE ADV UNIVERSAL IMPACT ADAPTER -- BUP2BV**
 2. **3/8" DRIVE ADAPTER- 3/8 TO 1/2 -- BP1216V**
 3. **3/8" DRIVE 2" IMPACT EXTENSION -- BXP2V**
 4. **3/8" DRIVE 6" IMPACT EXTENSION -- BXP6V**
 5. **3/8" DRIVE ADAPTER- 3/8 TO 1/4 -- BP1208V**
 6. **3/8" DRIVE 3" IMPACT EXTENSION -- BXP3V**

Item (57) – 1/2" Drive ADV 26 piece Metric 6 point Impact Socket Set – #SCPM266V

If items are sold separately, all 26 pieces below must be included in Item #57 pricing:

Socket set should have:

- an opti-torque system that applies torque to the fastener sides to reduce corner round off
 - a 150° chamfer on the socket drive end for better grab, constant pressure for easier use
 - high-visible size markings to quickly identify socket
 - Set includes:
1. **1/2" DRIVE 18MM METRIC 6 POINT IMPACT SOCKET -- CP18M6V**
 2. **1/2" DRIVE 23MM METRIC 6 POINT IMPACT SOCKET -- CP23M6V**
 3. **1/2" DRIVE 36MM METRIC 6 POINT IMPACT SOCKET -- CP36M6V**
 4. **1/2" DRIVE 30MM METRIC 6 POINT IMPACT SOCKET -- CP30M6V**
 5. **1/2" DRIVE 22MM METRIC 6 POINT IMPACT SOCKET -- CP22M6V**
 6. **1/2" DRIVE 21MM METRIC 6 POINT IMPACT SOCKET -- CP21M6V**
 7. **1/2" DRIVE 20MM METRIC 6 POINT IMPACT SOCKET -- CP20M6V**
 8. **1/2" DRIVE 19MM METRIC 6 POINT IMPACT SOCKET -- CP19M6V**
 9. **1/2" DRIVE 17MM METRIC 6 POINT IMPACT SOCKET -- CP17M6V**
 10. **1/2" DRIVE 16MM METRIC 6 POINT IMPACT SOCKET -- CP16M6V**
 11. **1/2" DRIVE 15MM METRIC 6 POINT IMPACT SOCKET -- CP15M6V**
 12. **1/2" DRIVE 13MM METRIC 6 POINT IMPACT SOCKET -- CP13M6V**
 13. **1/2" DRIVE 14MM METRIC 6 POINT IMPACT SOCKET -- CP14M6V**
 14. **1/2" DRIVE 12MM METRIC 6 POINT IMPACT SOCKET -- CP12M6V**
 15. **1/2" DRIVE 11MM METRIC 6 POINT IMPACT SOCKET -- CP11M6V**
 16. **1/2" DRIVE 10MM METRIC 6 POINT IMPACT SOCKET -- CP10M6V**
 17. **1/2" DRIVE 24MM METRIC 6 POINT IMPACT SOCKET -- CP24M6V**
 18. **1/2" DRIVE 35MM METRIC 6 POINT IMPACT SOCKET -- CP35M6V**
 19. **1/2" DRIVE 34MM METRIC 6 POINT IMPACT SOCKET -- CP34M6V**
 20. **1/2" DRIVE 33MM METRIC 6 POINT MAGNETIC IMPACT SOCKET -- CP33M6V**
 21. **1/2" DRIVE 32MM METRIC 6 POINT IMPACT SOCKET -- CP32M6V**
 22. **1/2" DRIVE 29MM METRIC 6 POINT IMPACT SOCKET -- CP29M6V**

23. **1/2" DRIVE 28MM METRIC 6 POINT IMPACT SOCKET -- CP28M6V**
24. **1/2" DRIVE 27MM METRIC 6 POINT IMPACT SOCKET -- CP27M6V**
25. **1/2" DRIVE 26MM METRIC 6 POINT IMPACT SOCKET -- CP26M6V**
26. **1/2" DRIVE 25MM METRIC 6 POINT IMPACT SOCKET -- CP25M6V**

Item (58) – 1/2" Drive ADV 13 piece SAE 6 point Deep Impact Socket Set – #SCDP136V

If items are sold separately, all 13 pieces below must be included in Item #58 pricing:

Socket set should have:

- an opti-torque system that applies torque to the fastener sides to reduce corner round off
- a 150° chamfer on the socket drive end for better grab, constant pressure for easier use
- high-visible size markings to quickly identify socket
 - Set includes:

1. **1/2" DRIVE 9/16" SAE 6 POINT DEEP IMPACT SOCKET -- CDP186V**
2. **1/2" DRIVE 11/16" SAE 6 POINT DEEP IMPACT SOCKET -- CDP226V**
3. **1/2" DRIVE 13/16" SAE 6 POINT DEEP IMPACT SOCKET -- CDP266V**
4. **1/2" DRIVE 5/8" SAE 6 POINT DEEP IMPACT SOCKET -- CDP206V**
5. **1/2" DRIVE 7/16" SAE 6 POINT DEEP IMPACT SOCKET 7/16" -- CDP146V**
6. **1/2" DRIVE 15/16" SAE 6 POINT DEEP IMPACT SOCKET -- CDP306V**
7. **1/2" DRIVE 1-1/16" SAE 6 POINT DEEP IMPACT SOCKET -- CDP346V**
8. **1/2" DRIVE 7/8" SAE 6 POINT DEEP IMPACT SOCKET -- CDP286V**
9. **1/2" DRIVE 1-1/8" SAE 6 POINT DEEP IMPACT SOCKET -- CDP366V**
10. **1/2" DRIVE 1/2" SAE 6 POINT DEEP IMPACT SOCKET -- CDP166V**
11. **1/2" DRIVE 1" SAE 6 POINT DEEP IMPACT SOCKET -- CDP326V**
12. **1/2" DRIVE 1-1/4" SAE 6 POINT DEEP IMPACT SOCKET -- CDP406V**
13. **1/2" DRIVE 3/4" SAE 6 POINT DEEP IMPACT SOCKET -- CDP246V**

Item (59) – 1/2" Drive ADV 13 piece SAE 6 point Impact Socket Set – #SCP136V

If items are sold separately, all 13 pieces below must be included in Item #59 pricing:

Socket set should have:

- an opti-torque system that applies torque to the fastener sides to reduce corner round off
- a 150° chamfer on the socket drive end for better grab, constant pressure for easier use
- high-visible size markings to quickly identify socket
 - Set includes:

1. **1/2" DRIVE 9/16" SAE 6 POINT IMPACT SOCKET -- CP186V**
2. **1/2" DRIVE 7/8" SAE 6 POINT IMPACT SOCKET -- CP286V**
3. **1/2" DRIVE 1" SAE 6 POINT IMPACT SOCKET -- CP326V**
4. **1/2" DRIVE 1/2" SAE 6 POINT IMPACT SOCKET -- CP166V**
5. **1/2" DRIVE 11/16" SAE 6 POINT IMPACT SOCKET -- CP226V**
6. **1/2" DRIVE 1-1/16" SAE 6 POINT IMPACT SOCKET -- CP346V**
7. **1/2" DRIVE 1-1/8" SAE 6 POINT IMPACT SOCKET -- CP366V**
8. **1/2" DRIVE 7/16" SAE 6 POINT IMPACT SOCKET -- CP146V**

9. 1/2" DRIVE 5/8" SAE 6 POINT IMPACT SOCKET -- CP206V
10. 1/2" DRIVE 13/16" SAE 6 POINT IMPACT SOCKET -- CP266V
11. 1/2" DRIVE 3/4" SAE 6 POINT IMPACT SOCKET -- CP246V
12. 1/2" DRIVE 1-1/4" SAE 6 POINT IMPACT SOCKET -- CP406V
13. 1/2" DRIVE 15/16" SAE 6 POINT IMPACT SOCKET -- CP306V

Item (60) – 1/2" Drive ADV 26 piece Metric 6 point Deep Impact Socket Set – #SCDPM266V

If items are sold separately, all 26 pieces below must be included in Item #60 pricing:

Socket set should have:

- an opti-torque system that applies torque to the fastener sides to reduce corner round off
- a 150° chamfer on the socket drive end for better grab, constant pressure for easier use
- high-visible size markings to quickly identify socket
 - Set includes:

1. 1/2" DRIVE 32MM METRIC 6 POINT DEEP IMPACT SOCKET -- CDP32M6V
2. 1/2" DRIVE 36MM METRIC 6 POINT DEEP IMPACT SOCKET -- CDP36M6V
3. 1/2" DRIVE 23MM METRIC 6 POINT DEEP IMPACT SOCKET -- CDP23M6V
4. 1/2" DRIVE 30MM METRIC 6 POINT DEEP IMPACT SOCKET -- CDP30M6V
5. 1/2" DRIVE 26MM METRIC 6 POINT DEEP IMPACT SOCKET -- CDP26M6V
6. 1/2" DRIVE 25MM METRIC 6 POINT DEEP IMPACT SOCKET -- CDP25M6V
7. 1/2" DRIVE 16MM METRIC 6 POINT DEEP IMPACT SOCKET -- CDP16M6V
8. 1/2" DRIVE 14MM METRIC 6 POINT DEEP IMPACT SOCKET -- CDP14M6V
9. 1/2" DRIVE 13MM METRIC 6 POINT DEEP IMPACT SOCKET -- CDP13M6V
10. 1/2" DRIVE 35MM METRIC 6 POINT DEEP IMPACT SOCKET -- CDP35M6V
11. 1/2" DRIVE 21MM METRIC 6 POINT DEEP IMPACT SOCKET -- CDP21M6V
12. 1/2" DRIVE 24MM METRIC 6 POINT DEEP IMPACT SOCKET -- CDP24M6V
13. 1/2" DRIVE 19MM METRIC 6 POINT DEEP IMPACT SOCKET -- CDP19M6V
14. 1/2" DRIVE 18MM METRIC 6 POINT DEEP IMPACT SOCKET -- CDP18M6V
15. 1/2" DRIVE 22MM METRIC 6 POINT DEEP IMPACT SOCKET -- CDP22M6V
16. 1/2" DRIVE 33 MM METRIC 6 POINT IMPACT SOCKET -- CDP33M6V
17. 1/2" DRIVE 10MM METRIC 6 POINT DEEP IMPACT SOCKET -- CDP10M6V
18. 1/2" DRIVE 27MM METRIC 6 POINT DEEP IMPACT SOCKET -- CDP27M6V
19. 1/2" DRIVE 11MM METRIC 6 POINT DEEP IMPACT SOCKET -- CDP11M6V
20. 1/2" DRIVE 15MM METRIC 6 POINT DEEP IMPACT SCKT 15MM -- CDP15M6V
21. 1/2" DRIVE 12MM METRIC 6 POINT DEEP IMPACT SOCKET -- CDP12M6V
22. 1/2" DRIVE 17MM METRIC 6 POINT DEEP IMPACT SOCKET -- CDP17M6V
23. 1/2" DRIVE 34MM METRIC 6 POINT DEEP IMPACT SOCKET -- CDP34M6V
24. 1/2" DRIVE 29MM METRIC 6 POINT DEEP IMPACT SOCKET -- CDP29M6V
25. 1/2" DRIVE 28MM METRIC 6 POINT DEEP IMPACT SOCKET -- CDP28M6V
26. 1/2" DRIVE 20MM METRIC 6 POINT DEEP IMPACT SOCKET -- CDP20M6V

Item (61) – Breaker Bar (1/2" drive) – #C18FH

Breaker bar should:

- break loose rusted or seized fasteners
- have an ergonomic handle design
- have an 1/2" drive size and an 18" overall length

Item (62) – Eighty8 Tooth Locking Flex Chrome Ratchet (1/2" drive 17") – #CFR178LF

Ratchet should have a:

- 1/2" drive size and 18-1/2" in length
- 88 gear teeth that produces a swing arc just over 4°, to allow faster work in the most compact spaces
- 9 position locking flex head that maintains the desired position regardless of size or applied load
- slim profile and a streamlined teardrop ratchet head for better access in compact areas
- recessed shift lever to prevent accidental shifting
- positive stop feature that will prevent any over travel or lock up while switching

Item (63) – 3" Standard Impact Extension (1/2" drive) – #CXP3D

Extension should:

- be 3" in length
- allow access in confined areas
- be clearly identifiable
- have tightly controlled manufacturing processes
- protect against rusting

Item (64) – 10" Impact Extension (1/2" drive) – #CXP10V

Extension should have:

- 1/2" drive size and 10" in length
- 6-point impact socket type
- 41/64" Hex O.D. and 31/32" Drive O.D.
- high performance alloy steel with state-of-the art heat treating process precision quench and temper
- strength wear resistance and long-lasting durability
- tightly controlled manufacturing processes

Item (65) – 7" Impact Extension (1/2" drive) – #CXP7V

Extension should have:

- 1/2" drive size and 7" in length
- impact socket type
- 31/32" Drive O.D.
- high performance alloy steel with state-of-the art heat treating process precision quench and temper
- strength wear resistance and long-lasting durability
- tightly controlled manufacturing processes

Item (66) – Universal Impact Joint (Pin) (1/2" drive) – #CUP2PD

Impact Joint should have:

- 1/2" drive size and 2-3/8" in length
- a pin retention mechanism

Item (67) – Tape Measure Standard Feet/Inches w/ Fractional Speed Marks (25') – #MSLBG25FA

Tape measure should have a:

- 25' x 1" standard feet/inches along with a fractional "speed mark"
- blade that automatically locks into place at the desired length
- quick push-button release to retract blade into tape housing
- durable ABS constructed housing that provides protection in tough work environments

Item (68) – Dual Wheel Tire Gauge 10-150 PSI – #17545

Gauge should:

- be ideal for dual wheels as well as other difficult to reach valves on RV's heavy trucks off road equipment
- have a dual foot service gauge designed for heavy duty use
- have a dual foot Chuck
- be calibrated from 10-150PSI (kPa is also shown 10-1050) 2 lbs. increments or 20KPA in
- 10lbs-150lbs range
- 12" in length
- 0-58 psi +/- 1.2 psi accuracy

Item (69) – Dial-Type Round Tire Tread Depth Gauge - #TDG2

Gauge should:

- have an oversized dial that allows easy reading
- have geared interior movement for increased ruggedness
- read in 1/32" increments and has a color-coded dial design

Item (70) – Shoe Brush Style Carbon Steel Wire Brush w/ wood handle – #WB15

Brush should:

- have a shoe brush style 4 by 16 rows of medium gauge carbon steel wire
- clean and surface prep
- have a 15" long wooden handle

Item (71) – 3 Head Tubing Bender – #MST370FH

Bender should:

- have a triple head 180° tube bender for 3/16", 1/4", 3/8" and 1/2" O.D. tubing
- be lightweight aluminum construction
- have a movable hook to provide the smallest possible bending radius

Item (72) – Premium Double Flaring Kit – #DFK93

If items are sold separately, all pieces below must be included in Item #72 pricing:

Kit should:

- be for 1/4", 5/16", 3/8" and 1/2" O.D. tubing
- have a high quality, professional full polish chrome flaring bar
- be ideal for brake, ATF, A/C, fuel and vacuum lines
- have a quick slip-on yoke for easy use
- have an easy operating, ball bearing flaring cone
- include tube cutter with Chromium steel cutting wheel and has thrust bearing feed mechanism for consistent, spiral free cutting of material
- have a cutter that includes foldaway steel reamer with hardened surface and filing surface to remove internal and external burrs
 - Set includes:

1. **STAINLESS STEEL TUBING CUTTER -- SSTC1010**

Item (73) – 1" Drive ADV 7 piece SAE 6 point Wheel Service Socket Set – #SEP76V

If items are sold separately, all 7 pieces below must be included in Item #73 pricing:

Socket set should have:

- an opti-torque system that applies torque to the fastener sides to reduce corner round off
- high-visible size markings to quickly identify socket
- a parallel nose down design for tight areas
- been cold-formed from a high-performance alloy steel for durability
 - Set includes:

1. **1" DRIVE 1-1/16" 6 POINT DEEP IMPACT SOCKET -- EDTP346V**
2. **1" 1-3/16" SOCKET -- EP386V**
3. **1" DRIVE 13/16" 4 POINT IMPACT SOCKET -- EP264V**
4. **1" DRIVE 1-1/2" SAE 6 POINT DEEP IMPACT SOCKET -- EDP486V**
5. **1" DRIVE 33MM METRIC 6 POINT DEEP IMPACT SCKT --EDP33M6V**
6. **1" DRIVE 1-1/4" 6 POINT DEEP IMPACT SOCKET -- EDTP406V**
7. **1" DRIVE 1-1/8" 6 POINT DEEP IMPACT SOCKET -- EDTP366V**

Item (74) – 1" Drive 9 piece SAE 6 point Impact Socket Set – #SEP96

If items are sold separately, all 9 pieces below must be included in Item #74 pricing:

- Set should be a Jumbo SAE Impact Set for Heavy Duty Trucks
 - Set includes:
 1. **1-1/2 6 POINT IMPACT SOCKET 1" DRIVE -- EP486A**
 2. **1" DRIVE 1-1/8" SAE 6 POINT IMPACT SOCKET -- EP366A**
 3. **1-1/4 6 POINT IMPACT SOCKET. 1" DRIVE -- EP406A**
 4. **1-7/8 6 POINT IMPACT SOCKET 1" DRIVE -- EP606A**
 5. **2" 6 POINT IMPACT SOCKET 1" DRIVE -- EP646A**
 6. **1" DRIVE 1" SAE 6 POINT IMPACT SOCKET -- EP326A**
 7. **1-5/8 6 POINT IMPACT SOCKET 1" DRIVE -- EP526A**
 8. **1-3/4 6 POINT IMPACT SOCKET 1" DRIVE -- EP566A**
 9. **1-3/8 6 POINT IMPACT SOCKET 1" DRIVE -- EP446A**

Item (75) – 12 piece Quarter Turn Internal/External Snap Ring Pliers Set – #MST1225

If items are sold separately, all 12 pieces below must be included in Item #75 pricing:

Pliers set should:

- quickly and easily convert from internal (rings in a housing or bore) to external applications (rings on a shaft)
- have a pivot that will not loosen while using tool
- have a low-profile t-knob for working in tight spaces
- have a cushioned grip for comfort
- have straight, 45° and 90° tip angles
- tip diameters: .038", .047", .070" and .090"
 - Set includes:
 1. **90° QUARTER TURN LARGE TIP RETAINING PLIERS -- MST34029**
 2. **90° SMALL SNAP RING PLIERS -- MST12029**
 3. **45° SMALL SNAP RING PLIERS -- MST12024**
 4. **STRAIGHT TIP SMALL SNAP RING PLIERS -- MST1202**
 5. **90° XL SNAP RING PLIERS -- MST56029**
 6. **45° XL SNAP RING PLIERS -- MST56024**
 7. **STRAIGHT TIP XL SNAP RING PLIERS -- MST5602**
 8. **STRAIGHT TIP MEDIUM SNAP RING PLIERS -- MST3202**
 9. **45° QUARTER TURN LARGE TIP RETAINING PLIERS -- MST34024**
 10. **STRAIGHT QUARTER TURN LARGE TIP RETAINING PLIERS -- MST3402**
 11. **90° QUARTER TURN MEDIUM TIP RETAINING PLIERS -- MST32029**
 12. **45° QUARTER TURN MEDIUM TIP RETAINING PLIERS -- MST32024**

Item (76) – 6” HD Pipe Wrench – #PWR6

Wrench should have a/an:

- ¾” capacity & 6” in length
- cast-iron housing and I-beam handle for grip and strength without excess weight
- full-floating jaw with spring suspension for quick grip and release
- replaceable jaws that feature heat-treated, high-alloy steel jaw teeth
- easy-spin, non-stick adjustment nut that automatically cleans grime from the hook jaw shank

Item (77) – 10” HD Pipe Wrench – #PWR10

Wrench should have a/an:

- 1-1/2” capacity & 10” in length
- cast-iron housing and I-beam handle for grip and strength without excess weight
- full-floating jaw with spring suspension for quick grip and release
- replaceable jaws that feature heat-treated, high-alloy steel jaw teeth
- easy-spin, non-stick adjustment nut that automatically cleans grime from the hook jaw shank

Item (78) – 12” HD Pipe Wrench – #PWR12

Wrench should have a/an:

- 2” capacity & 12” in length
- wrench braced mount on the heel jaw
- cast-iron housing and I-beam handle for grip and strength without excess weight
- full-floating jaw with spring suspension for quick grip and release
- replaceable jaws that feature heat-treated, high-alloy steel jaw teeth
- easy-spin, non-stick adjustment nut that automatically cleans grime from the hook jaw shank

Item (79) – 14” HD Pipe Wrench – #PWR14

Wrench should have a/an:

- 2” capacity & 14” in length
- wrench braced mount on the heel jaw
- cast-iron housing and I-beam handle for grip and strength without excess weight
- full-floating jaw with spring suspension for quick grip and release
- replaceable jaws that feature heat-treated, high-alloy steel jaw teeth
- easy-spin, non-stick adjustment nut that automatically cleans grime from the hook jaw shank

Item (80) – 18” HD Pipe Wrench – #PWR18

Wrench should have a/an:

- 2-1/2” capacity & 18” in length
- wrench braced mount on the heel jaw
- cast-iron housing and I-beam handle for grip and strength without excess weight
- full-floating jaw with spring suspension for quick grip and release
- replaceable jaws that feature heat-treated, high-alloy steel jaw teeth
- easy-spin, non-stick adjustment nut that automatically cleans grime from the hook jaw shank

Item (81) – 6 Blade Feeler Gauge – #FG23A

Gauge should:

- have 6 blades and 3” in length
- fill magnetic gapping requirements for setting gaps on some new imports
- be non-magnetic brass blades
- be marked with inch and metric size equivalents
- have feeler gauge sizes of .012, .016, .014, .010, .008, .006

Item (82) – 2/3 Jaw 2-ton Puller – #P1023

Puller should:

- remove and install gears, bearings and pulleys on autos, trucks, agricultural and construction equipment
- have a 2 or 3 jaw, 2-ton capacity
- have a 3-3/8” reach and 4-3/4” spread

Item (83) – Battery/Coolant/Def Refractometer – #MST401

Refractometer should:

- eliminate the need for two separate tools; check coolant and DEF with the same tool
- easily display condition of ethylene glycol and propylene glycol
- have a scale to show charge state of battery fluid
- quickly confirm proper concentration of DEF (urea)
- easily calibrate with distilled water
- be a hand-held tool that works with ambient light and requires no power
- have a fitted in plastic case

Item (84) – Seal Puller – #SP7

Puller should:

- remove the most stubborn seals from transmissions, axles and seals that are difficult to reach
- have an enhanced corrosion resistance
- 1/2” x 12-1/2” size

Item (85) – 11 piece (12 if separate) 3/8" Drive SAE Crowfoot Wrench Set - #SMCFS11

If items are sold separately, all 11 pieces AND the Rail Holder (12), below must be included in Item #85 pricing:

Wrench set should:

- include sizes 3/8" to 1" in 3/8" drive No skip SAE
- have a crowfoot design with thin profile for greater access in tight hard to reach areas
- feature 3/8" drive size with detents to lock onto ratchets for all sizes
- includes chrome 3/8" drive storage rail
- be 17.7" in length
 - Set includes:

1. **1/2 IN CROWFOOT WRENCH** -- MCFS16A
2. **3/4 IN CROWFOOT WRENCH** -- MCFS24A
3. **13/16 IN CROWFOOT WRENCH** -- MCFS26A
4. **7/8 IN CROWFOOT WRENCH** -- MCFS28A
5. **15/16 IN CROWFOOT WRENCH** -- MCFS30A
6. **1 IN CROWFOOT WRENCH** -- MCFS32A
7. **3/8 IN CROWFOOT WRENCH** -- MCFS12A
8. **7/16 IN CROWFOOT WRENCH** -- MCFS14A
9. **5/8 IN CROWFOOT WRENCH** -- MCFS20A
10. **9/16 IN CROWFOOT WRENCH** -- MCFS18A
11. **11/16 IN CROWFOOT WRENCH** -- MCFS22A
12. **SMCFS11 RAIL HOLDER** -- SMCFS11R

Item (86) – 10 piece (11 if separate) 3/8" Drive Metric Crowfoot Wrench Set - #SMCFM10

If items are sold separately, all 10 pieces AND the Rail Holder (11), below must be included in Item #86 pricing:

Wrench set should:

- include sizes 10MM to 19MM drive No skip Metric
- have a crowfoot design with thin profile for greater access in tight hard to reach areas
- feature 3/8" drive size with detents to lock onto ratchets for all sizes
- includes chrome 3/8" drive storage rail
- be 13.4" in length
 - Set includes:

1. **10 MM CROWFOOT WRENCH** -- MCFS10MA
2. **14 MM CROWFOOT WRENCH** -- MCFS14MA
3. **15 MM CROWFOOT WRENCH** -- MCFS15MA
4. **11 MM CROWFOOT WRENCH** -- MCFS11MA
5. **19 MM CROWFOOT WRENCH** -- MCFS19MA
6. **13 MM CROWFOOT WRENCH** -- MCFS13MA
7. **17 MM CROWFOOT WRENCH** -- MCFS17MA
8. **16 MM CROWFOOT WRENCH** -- MCFS16MA
9. **18 MM CROWFOOT WRENCH** -- MCFS18MA
10. **12 MM CROWFOOT WRENCH** -- MCFS12MA
11. **SMCFM10 RAIL HOLDER** -- SMCFSM10R

Item (87) – 1/4", 3/8" and 1/2" Drive 46 piece ADV Master Bit Socket Set – #SBS46V

If items are sold separately, all 46 pieces below must be included in Item #87 pricing:

Socket set should:

- include 1/2", 3/8", & 1/4" drive sizes
- be designed for multiple applications
- have stubby and long length to provide greater access in tight areas
- have a socket mirror polish chrome-vanadium finish that resists abrasion and corrosion
- have bits that are manufactured with S2 steel and finished with zinc phosphate coating for corrosion resistance
- have high-visibility markings that include two black rings for easy ADV distinction
- be packaged in EVA foam for storage and finished with a carbon fiber layer on top for durability
 - Set includes:

1. 1/4" DRIVE T20H TAMPERPROOF TORX BIT SOCKET -- A20TPTXV
2. 1/2" DRIVE T60 TORX BIT SOCKET -- C60TXV
3. 3/8" DRIVE T55 TORX BIT SOCKET -- B55TXV
4. 3/8" DRIVE T50 TORX BIT SOCKET -- B50TXV
5. 3/8" DRIVE T47 TORX BIT SOCKET -- B47TXV
6. 3/8" DRIVE T45 TORX BIT SOCKET -- B45TXV
7. 3/8" DRIVE T40 TORX BIT SOCKET -- B40TXV
8. 3/8" DRIVE T30 TORX BIT SOCKET -- B30TXV
9. 1/4" DRIVE T25 TORX BIT SOCKET -- A27TXV
10. 3/8" DRIVE 10MM LONG HEX BIT -- BXY10MV
11. 3/8" DRIVE 8MM LONG HEX BIT -- BXYL8MV
12. 1/4" DRIVE T25 TORX BIT SOCKET -- A25TXV
13. 1/4" DRIVE T20 TORX BIT SOCKET -- A20TXV
14. 1/4" DRIVE T15 TORX BIT SOCKET -- A15TXV
15. 1/4" DRIVE T10 TORX BIT SOCKET -- A10TXV
16. 3/8" DRIVE T40H TAMPERPROOF TORX BIT SOCKET -- B40TPTXV
17. 3/8" DRIVE T30H TAMPERPROOF TORX BIT SOCKET -- B30TPTXV
18. 3/8" DRIVE T45H TAMPERPROOF TORX BIT SOCKET -- B45TPTXV
19. 3/8" DRIVE T50H TAMPERPROOF TORX BIT SOCKET -- B50TPTXV
20. 3/8" DRIVE T55H TAMPERPROOF TORX BIT SOCKET -- B55TPTXV
21. 1/4" DRIVE E4 INVERTED TORX -- A4XV
22. 1/4" DRIVE E5 INVERTED TORX -- A5XV
23. 1/4" DRIVE E6 INVERTED TORX -- A6XV
24. 1/4" DRIVE E7 INVERTED TORX -- A7XV
25. 1/4" DRIVE E8 INVERTED TORX -- A8XV
26. 3/8" DRIVE E10 INVERTED TORX -- B10XV
27. 3/8" DRIVE E12 INVERTED TORX -- B12XV
28. 3/8" DRIVE E14 INVERTED TORX -- B14XV
29. 3/8" DRIVE E16 INVERTED TORX -- B16XV
30. 1/2" DRIVE E18 INVERTED TORX -- C18XV
31. 1/2" DRIVE E20 INVERTED TORX -- C20XV
32. 1/4" DRIVE 4MM HEX BIT SOCKET -- AXV4MV
33. 1/4" DRIVE 5MM HEX BIT SOCKET -- AXV5MV
34. 1/4" DRIVE 6MM HEX BIT SOCKET -- AXV6MV
35. 3/8" DRIVE 7MM HEX BIT SOCKET -- BXY7MV

- 36. **3/8" DRIVE 8MM HEX BIT SOCKET -- BXY8MV**
- 37. **3/8" DRIVE 9MM HEX BIT SOCKET -- BXY9MV**
- 38. **3/8" DRIVE 10MM LONG HEX BIT -- BXYL10MV**
- 39. **1/4" DRIVE 4MM LONG HEX BIT -- AXYL4MV**
- 40. **1/4" DRIVE 5MM LONG HEX BIT -- AXYL5MV**
- 41. **1/4" DRIVE 6MM LONG HEX BIT -- AXYL6MV**
- 42. **1/4" DRIVE T10H TAMPERPROOF TORX BIT SOCKET -- A10TPTXV**
- 43. **1/4" DRIVE T15H TAMPERPROOF TORX BIT SOCKET -- A15TPTXV**
- 44. **1/4" DRIVE T8 TORX BIT SOCKET -- A8TXV**
- 45. **1/4" DRIVE T25H TAMPERPROOF TORX BIT SOCKET -- A25TPTXV**
- 46. **1/4" DRIVE T27H TAMPERPROOF TORX BIT SOCKET -- A27TPTXV**

Item (88) – 8 piece Power Probe Butane Solder Kit – #PPSK

If items are sold separately, all 8 pieces below must be included in Item #88 pricing:

Solder kit should:

- have a maximum temp of 2,500°F when used as torch, 950°F when used for soldering
- have a fast and reliable electronic ignition
- have an adjustable temperature control
- should not include Butane
 - Set includes:
 1. **3 solder tips,**
 2. **1 heat injection tip,**
 3. **1 hot knife,**
 4. **1 heat shield for shrink tube,**
 5. **1 roll of rosin core solder**
 6. **1 sponge**

Item (89) – 51 piece Rethreading Tap and Die Set – #TDK51

If items are sold separately, all 51 pieces below must be included in Item #89 pricing:

Set should:

- properly repair or renew damaged threads on nuts, bolts or studs
- be highly tempered for strength and durability
- be color-coded for quick visual identification
- be used with a socket or wrench
- not be used on hardened threads
- be packed in a blow molded case
- be 13-5/8" in length
- include 3 thread restoring files- TR1, TR3 and TRM8
- include rethreading dies: 7 USS coarse, 7 SAE fine & 11 metric
- include rethreading taps: 6 USS coarse, 6 SAE fine & 11 metric
 - Set includes:

1. **RETHREAD TAP 9/16"-12 NC -- TDT916C**
2. **RETHREAD TAP 1/2"-13 NC -- TDT12C**
3. **RETHREAD TAP 3/8"-24 NF -- TDT38F**
4. **RETHREAD TAP 7/16"-20 NF -- TDT716F**
5. **RETHREAD TAP 1/2"-20 NF -- TDT12F**
6. **RETHREAD TAP 9/16"-18 NF -- TDT916F**
7. **RETHREAD TAP M6 x 1.00 -- TDT60M**
8. **RETHREAD TAP M8 x 1.00 -- TDT80M**
9. **RETHREAD TAP M8 x 1.25 -- TDT825M**
10. **RETHREAD TAP M10 x 1.00 -- TDT100M**
11. **RETHREAD TAP M10 x 1.25 -- TDT1025M**
12. **RETHREAD TAP M10 x 1.50 -- TDT1050M**
13. **RETHREAD TAP M11 x 1.50 -- TDT1150M**
14. **RETHREAD TAP M12 x 1.25 -- TDT1225M**
15. **RETHREAD TAP M12 x 1.50 -- TDT1250M**
16. **RETHREAD TAP M12 x 1.75 -- TDT1275M**
17. **RETHREAD TAP M14 x 1.50 -- TDT1450M**
18. **RETHREAD DIE 1/4"-20 NC -- TDD14C**
19. **RETHREAD DIE 5/16"-18 NC -- TDD516C**
20. **RETHREAD DIE 3/8"-16 NC -- TDD38C**
21. **RETHREAD DIE 7/16"-14 NC -- TDD716C**
22. **RETHREAD DIE 1/2"-13 NC -- TDD12C**
23. **RETHREAD DIE 9/16"-12 NC -- TDD916C**
24. **RETHREAD DIE 5/8"-11 NC -- TDD58C**
25. **RETHREAD DIE 1/4"-28 NF -- TDD14F**
26. **RETHREAD DIE 5/16"-24 NF -- DD516F**
27. **RETHREAD DIE 3/8"-24 NF -- TDD38F**
28. **RETHREAD DIE 7/16"-20 NF -- TDD716F**
29. **RETHREAD DIE 1/2"-20 NF -- TDD12F**
30. **RETHREAD DIE 9/16"-18 NF -- TDD916F**
31. **RETHREAD DIE 5/8"-18 NF -- TDD58F**
32. **RETHREAD DIE M6 x 1.00 -- TDD60M**
33. **METRIC: 0.75MM, 1.00MM, 1.25MM, 1.50MM, 1.75MM, 2.00MM, 2.50MM AND 3.00MM - TRM8A**
34. **8, 9, 10, 11-1/2, 20, 27, 28 AND 32 THREADS PER INCH -- TR3A**
35. **11, 12, 13, 14, 16, 18, 20 AND 24 THREADS PER INCH -- TR1A**
36. **RETHREAD TAP 5/16"-24 NF -- TDT516F**
37. **RETHREAD TAP 7/16"-14 NC -- TDT716C**
38. **RETHREAD TAP 3/8"-16 NC -- TDT38C**
39. **RETHREAD TAP 5/16"-18 NC -- TDT516C**
40. **RETHREAD TAP 1/4"-20 NC -- TDT14C**
41. **RED VINYL GRIP -- TDRFG**
42. **RETHREAD DIE M14 x 1.50 -- TDD1450M**
43. **RETHREAD DIE M12 x 1.75 -- TDD1275M**
44. **RETHREAD DIE M12 x 1.50 -- TDD1250M**
45. **RETHREAD DIE M12 x 1.25 -- TDD1225M**
46. **RETHREAD DIE M11 x 1.50 -- TDD1150M**
47. **RETHREAD DIE M8 x 1.00 -- TDD80M**
48. **RETHREAD DIE M8 x 1.25 -- TDD825M**
49. **RETHREAD DIE M10x1.00 -- TDD100M**
50. **RETHREAD DIE M10 x 1.25 -- TDD1025M**
51. **RETHREAD DIE M10 x 1.50 -- TDD1050M**

Item (90) – Infrared Thermometer w/ color screen – #MT20

Thermometer should:

- have a temperature range: -58°F to 932°F
- feature a 12:1 distance to spot ratio
- have an accuracy: +/- 4°F or 2% of reading
- include a 1" dial thermometer
- automatically power off after 15 seconds
- should read in both Fahrenheit and Celsius

Item (91) – Heavy-duty Tire Inflator w/ Dual Chuck – #MAT101

Inflator should:

- have a 1/4" NPT dual foot swivel chuck
- have a heavy-duty 10-120psi scale
- have a 13" rugged rubber hose
- have an extended dual foot air chuck that provides access to hard-to-reach valves on trucks, tractors, buses and other heavy machinery
- feature a custom design non-slip grip
- have a push-button pressure release valve
- be equipped with a bumper guard to protect inflator
- have calibrated increments at 2psi

Item (92) – Torque Angle Meter – #MST65B

Meter should:

- have a 360° angle scale, clearly marked in 2° increments and in intervals of 10° and 30°
- be used for fasteners such as TTY bolts used on vehicles where the specification calls for both torque and angle setting
- have a 1/2" female and male drive, and adjustable position brace arm keeps body in position while the meter and your wrench rotates
- be lightweight 0.5lbs

Item (93) – 1/2" Drive Fixed Torque Wrench, 50-250ft. LBS – #TRC250K

Wrench should have a/an:

- durable 72 tooth teardrop reversible ratchet head
- audible click and/or impulse when torque setting is reached
- dual scale, U.S. and metric readings
- anodized aluminum handle with non-slip diamond knurl
- retractable lock ring to prevent accidental change of torque setting
- guaranty to meet ISO 6789:2003 and ANSI Spec. B107.14M
- accuracy of: 3% CW, 5% CCW
- range (ft-lb) of 50-250ft. lbs
- graduation (ft-lb) of 1.0ft lbs.

- range (N-m) of 74.6-345.7
- graduation (N-m) of 1.36
- chrome finish, with a fixed head type
- weight 5lbs & length 25-3/8"
- drive O.D. of 43.8mm & size of 1/2"

Item (94) – 3/8" Drive Fixed Torque Wrench, 50-250ft. LBS – #TRB250K

Wrench should have a/an:

- durable 72 tooth teardrop reversible ratchet head
- audible click and/or impulse when torque setting is reached
- dual scale, U.S. and metric readings
- anodized aluminum handle with non-slip diamond knurl
- retractable lock ring to prevent accidental change of torque setting
- guaranty to meet ISO 6789:2003 and ANSI Spec. B107.14M
- accuracy of: 3% CW, 5% CCW
- range (ft-lb) of 50-250ft. lbs
- graduation (lb) of 1.0lb
- range (N-m) of 6.2-28.8
- graduation (N-m) of .11
- chrome finish, with a fixed head type
- weight 3lbs & length 12"
- drive O.D. of 28mm & size of 3/8"

Item (95) – 1/2" Drive Fixed Torque Wrench, 30-150ft. LBS – #TRC150K

Wrench should have a/an:

- durable 72 tooth teardrop reversible ratchet head
- audible click and/or impulse when torque setting is reached
- dual scale, U.S. and metric readings
- anodized aluminum handle with non-slip diamond knurl
- retractable lock ring to prevent accidental change of torque setting
- guaranty to meet ISO 6789:2003 and ANSI Spec. B107.14M
- accuracy of: 3% CW, 5% CCW
- range (ft-lb) of 30-150ft. lbs
- graduation (ft-lb) of 1.0ft lbs.
- range (N-m) of 47.4-210.1
- graduation (N-m) of 1.36
- chrome finish, with a fixed head type
- weight 4lbs & length 20-3/4"
- drive O.D. of 43.8mm & size of 1/2"

Item (96) – Constant Tension Tube Cutter – #TTC18

Cutter should:

- feature a spring-loaded tensioner to allow the cutter to cut through tubing without adjusting the tightening wheel
- attach to the tubing and tighten knob to the marked setting, then turn
- have no readjusting of the tightening wheel
- have a range of 1/8" to 1-1/8"

Item (97) – Valve Core Tool – #VCT1

Tool should:

- be made from heat treated steel and come with a dual durometer handle and a pocket clip
- have a precision knob on the end allows the tool to rotate in the palm of your hand
- be 5.7" in length

Item (98) – Belt Tension Gauge – SKU# AS4395A

Gauge should:

- fall under categories 23-Diesel Injection System, 15-Cylinder Head, Valve
- allow testing of belts to determine whether replacement is necessary or new belt tension is correct
- measure belt tension on all diesel models
- fall under categories 23-Diesel Injection System, 15-Cylinder Head, Valve

Item (99) – 18" Adjustable Wrench – #818

Wrench should:

- be 18" L x 4.49" w & weigh 4.69lbs
- be made of alloy steel, chrome, plain
- have a jaw capacity of 2 1/8" & a joint thickness of 1.13"

Item (100) – 12" Adjustable Wrench – #AJW12A

Wrench should:

- be strong, comfortable, and adjustable
- be 11.93" in length and have 1.43" maximum jaw capacity
- have hot-forged steel jaws that are specialty heat-treated for needed strength in removing or holding fasteners with laser-etched scale for fastener measurement

Item (101) – 8” Adjustable Wrench – #AJW8A

Wrench should:

- be strong, comfortable, and adjustable
- be 8.07” in length and have 1.04” maximum jaw capacity
- have hot-forged steel jaws that are specialty heat-treated for needed strength in removing or holding fasteners with laser-etched scale for fastener measurement

Item (102) – 2-6” Inside Micrometer – #52-243-026-1

Micrometer should:

- 2-6” range
- have a wide measuring range and consist of an inside micrometer head and a series of fully hardened and lapped extension rods of different lengths
- have spindle thread hardened, ground & lapped
- have microfine graduations on satin chrome
- have coiled spring pressure contact type rods that are each marked w/ appropriate length
- be calibrated by a micrometer or ring gage
- have quick, easy zero adjustment on the sleeve
- meet or exceeds Federal accuracy specs
- include a wrench and a fitted case
- reference standard included w/ set
- a positive locking nut on spindle
- anvil and spindle hardened and precision ground w/ microlap finish on tips

Item (103) – Silver Eagle Long Barrel Air Hammer Kit – #SE916K

If items are sold separately, all 2 pieces below must be included in Item #103 pricing:

Kit should:

- have a positive trigger for precise speed control
- have a 3-3/4" longer piston stroke to provide 2,200 blows per minute
- be used for rivet cutting, bolt cutting and overall front-end work
- include a built-in regulator and quick-change chisel retainer
 - Set includes:

1. **SILVER EAGLE LONG BARREL AIR HAMMER -- SE916**
2. **SILVER EAGLE CHISEL RETAINER-- SECR1**

Item (104) – Rubber Tip Blow Gun– #A201

Gun should:

- have a leak-proof seal between gun and fluid or other openings
- be made of Aluminum
- weigh 1lb.

Item (105) – Fin Straightener – #AC90925

Straightener should:

- be six (6) straighteners in one
- clean and straighten condenser and evaporator coil fins with spacing of 6, 8, 10, 12, 14 and 15 fins per inch

Item (106) – Master Bushing Driver Set – #MST4410

Set should:

- complete a standard and metric bushing adapter set with 30 adapters up to 1-3/8" and 42mm in one set
- contain the correct sizes for any job and provide maximum productivity
- have handles that do not extend past bottom of adapter and can be used in blind hole applications without bottoming out the driver

Item (107) – Wilton C-Clamps (0-6" capacity) – #C546

C-Clamps should:

- 0-6" Capacity, 2-3/4" Throat Depth
- hardened steel spindle
- includes Perma-Pads

Item (108) – Wilton C-Clamps (0-8" capacity) – #C548

C-Clamps should:

- 0-8" Capacity, 3-11/32" Throat Depth
- hardened steel spindle
- includes Perma-Pads

Item (109) – Heavy-duty Clutch Adjusting Wrench – #CW7028

- Wrench should be used for the internal adjustment of Spicer angle-spring and multiple-lever clutches

Item (110) – 25MM Long Combination Wrench - #MCL25M2K

Wrench should:

- be 25mm & 14.02" in length
- have a non-slip open end that works in both directions without reversing the wrench
- be forged from higher carbon steel and the same heat-treating process used in manufacturing jet landing gear
- have an Anvil drive box end that can be used to loosen or tighten many 6 point, 12 point, spline, TORX, square and fasteners rounded up to 50%
- be Metric scale, Static series, Combo type wrench, and have 12points
- have a Box end head thickness of 0.62" & width of 1.44" and an Open end head thickness of 0.41" & width of 2.05"

Item (111) – 32MM Combination Wrench - #MCL32M2K

Wrench should:

- be 32mm & 17.06" in length
- have a non-slip open end that works in both directions without reversing the wrench
- be forged from higher carbon steel and the same heat-treating process used in manufacturing jet landing gear
- have an Anvil drive box end that can be used to loosen or tighten many 6 point, 12 point, spline, TORX, square and fasteners rounded up to 50%
- be Metric scale, Static series, Combo type wrench, and have 12points
- have a Box end head thickness of 0.74" & width of 1.82" and an Open end head thickness of 0.50" & width of 2.57"

Item (112) – 27MM Long Combination Wrench - #MCL27M2K

Wrench should:

- be 27mm & 14.75" in length
- have a non-slip open end that works in both directions without reversing the wrench
- be forged from higher carbon steel and the same heat-treating process used in manufacturing jet landing gear
- have an Anvil drive box end that can be used to loosen or tighten many 6 point, 12 point, spline, TORX, square and fasteners rounded up to 50%
- be Metric scale, Static series, Combo type wrench, and have 12points
- have a Box end head thickness of 0.65" & width of 1.55" and an Open end head thickness of 0.43" & width of 2.20"

Item (113) – 28MM Long Combination Wrench - #MCL28M2K

Wrench should:

- be 28mm & 15.50" in length
- have a non-slip open end that works in both directions without reversing the wrench
- be forged from higher carbon steel and the same heat-treating process used in manufacturing jet landing gear
- have an Anvil drive box end that can be used to loosen or tighten many 6 point, 12 point, spline, TORX, square and fasteners rounded up to 50%
- be Metric scale, Static series, Combo type wrench, and have 12points
- have a Box end head thickness of 0.69" & width of 1.65" and an Open end head thickness of 0.48" & width of 2.28"

Item (114) – 29MM Long Combination Wrench - #MCL29M2K

Wrench should:

- be 29mm & 15.50" in length
- have a non-slip open end that works in both directions without reversing the wrench
- be forged from higher carbon steel and the same heat-treating process used in manufacturing jet landing gear
- have an Anvil drive box end that can be used to loosen or tighten many 6 point, 12 point, spline, TORX, square and fasteners rounded up to 50%
- be Metric scale, Static series, Combo type wrench, and have 12points
- have a Box end head thickness of 0.69" & width of 1.65" and an Open end head thickness of 0.48" & width of 2.28"

Item (115) – 30MM Long Combination Wrench - #MCL30M2K

Wrench should:

- be 30mm & 16.94" in length
- have a non-slip open end that works in both directions without reversing the wrench
- be forged from higher carbon steel and the same heat-treating process used in manufacturing jet landing gear
- have an Anvil drive box end that can be used to loosen or tighten many 6 point, 12 point, spline, TORX, square and fasteners rounded up to 50%
- be Metric scale, Static series, Combo type wrench, and have 12points
- have a Box end head thickness of 0.73" & width of 1.72" and an Open end head thickness of 0.48" & width of 2.38"

Item (116) – 26MM Long Combination Wrench - #MCL26M2K

Wrench should:

- be 26mm & 14.75" in length
- have a non-slip open end that works in both directions without reversing the wrench

- be forged from higher carbon steel and the same heat-treating process used in manufacturing jet landing gear
- have an Anvil drive box end that can be used to loosen or tighten many 6 point, 12 point, spline, TORX, square and fasteners rounded up to 50%
- be Metric scale, Static series, Combo type wrench, and have 12points
- have a Box end head thickness of 0.65" & width of 1.55" and an Open end head thickness of 0.43" & width of 2.20"

Item (117) – 1-5/6" XL Wrench - #MCL422K

Wrench should:

- be 1-5/16" & 20.13" in length
- have a non-slip open end that works in both directions without reversing the wrench
- be forged from higher carbon steel and the same heat-treating process used in manufacturing jet landing gear
- be SAE scale, Static series, Combo type wrench, and have 12points
- have a Standard 12 point box end
- Box end head thickness of 0.87" & width of 2.03" and an Open end head thickness of 0.55" & width of 2.68"

Item (118) – 1-1/2" XL Combination Wrench - #MCL482K

Wrench should:

- be 1-1/2" & 21.15" in length
- have a non-slip open end that works in both directions without reversing the wrench
- be forged from higher carbon steel and the same heat-treating process used in manufacturing jet landing gear
- be SAE scale, Static series, Combo type wrench, and have 12points
- have a Standard 12 point box end
- Box end head thickness of 0.95" & width of 2.38" and an Open end head thickness of 0.63" & width of 3.15"

Item (119) – 1-17/16" XL Combination Wrench - #MCL462K

Wrench should:

- be 1-7/16" & 20.13" in length
- have a non-slip open end that works in both directions without reversing the wrench
- be forged from higher carbon steel and the same heat-treating process used in manufacturing jet landing gear
- be SAE scale, Static series, Combo type wrench, and have 12points
- have a Standard 12 point box end
- Box end head thickness of 0.94" & width of 2.19" and an Open end head thickness of 0.63" & width of 3.00"

Item (120) – 12 piece Dual Offset Combination Metric Wrench Set - #SMCOL122

If items are sold separately, all 12 pieces below must be included in Item #120 pricing:

Wrench Set should:

- have a twin angle design of the box and open ends that allow access w/ the additional surface angle on each end
- have a non-slip open end that loosens and tightens fasteners rounded up to 70%
- improve access in tight places with a 10% narrower open end design
- have a better leverage and access with an open end indexed to 30° and a box end indexed at 15°
- be Metric scale, Static series, Combo type wrench, and have Spline points
 - Set includes wrenches: 8mm - 19mm

1. **14MM OFFSET COMBINATION WRENCH -- MCOL14M2**
2. **15MM OFFSET COMBINATION WRENCH -- MCOL15M2**
3. **16MM OFFSET COMBINATION WRENCH -- MCOL16M2**
4. **17MM OFFSET COMBINATION WRENCH -- MCOL17M2**
5. **18MM OFFSET COMBINATION WRENCH -- MCOL18M2**
6. **13 MM OFFSET COMBINATION WRENCH -- MCOL13M2**
7. **8 MM COMBINATION OFFSET WRENCH -- MCOL8M2**
8. **9 MM OFFSET COMBINATION WRENCH -- MCOL9M2**
9. **10 MM OFFSET COMBINATION WRENCH -- MCOL10M2**
10. **11 MM OFFSET COMBINATION WRENCH -- MCOL11M2**
11. **12 MM OFFSET COMBINATION WRENCH -- MCOL12M2**
12. **19MM OFFSET COMBINATION WRENCH -- MCOL19M2**

Item (121) – Cooling System Pressure Tester – #PTK70888A

Tester should:

- identify cooling system pressure leaks
- be a universal attachment to radiator or header tanks that suit automotive, commercial, heavy duty, marine and motorcycles
- fit bayonet and threaded filler necks on radiators or header tanks
- include a fluid drain tube that allows coolant to be returned to the coolant reservoir or safely collected in a container for recycling
- come complete with 4 double ended adapters for testing 8 different radiator cap types
- have a pressure pump manufactured from composite material that is lightweight with high impact and extreme corrosion resistance
- have 0-30psi pressure gauge with rubber gauge protector

Item (122) – Dial Indicator w/ Magnet – #MDI260

Indicator should have a:

- powerful magnet
- 1" range with revolution counter
- continuous reading
- graduation of .0005"

Item (123) – 0-6" Digital Caliper – #DPC351

Caliper should have:

- direct inch to metric conversion
- 6"/150mm range
- four way measuring
- clear digital display for easy reading
- graduation of .0005"

Item (124) – 3/8" Reversible Keyless Air Drill (Silver Eagle) – #SE144

Drill should:

- have .45 HP and 1,800 RPM
- be ideal for a broad range of applications: drilling, honing, hole sawing and reaming
- have a triple planetary gearing design gives added torque even at lower speeds
- have a muffled handle exhaust that allows for more efficient, quiet operations
- not have variable speed
- aluminum material
- pistol style
- weight 2.5lbs & Length 7"
- 88 sound dB(a)
- keyless chuck type
- 3/8" chuck capacity
- 3/8" hose size (recommended)
- 3.5cfm average air consumption
- 1/4" air inlet thread size
- 3/8"-24 spindle thread

Item (125) – 1/2" Reversible Keyless Air Drill (Silver Eagle) – #SE155

Drill should have:

- .45 HP and 700 RPM
- a one hand reverse design that provide optimal productivity in applications such as starting a hole or when driving or removing a screw
- a comfort grip handle and adjustable side handle
- a variable speed trigger for precise speed control
- aluminum material
- pistol style
- weight 3lbs & Length 7.5"
- 85 sound dB(a)
- keyed chuck type
- 1/2" chuck capacity
- 3/8" hose size (recommended)
- 4cfm average air consumption
- 1/4" air inlet thread size
- 3/8"-24 spindle thread

Item (126) – 29 piece Reduced Shank Nitro-Tip Drill Bit Set – #DB29NTSRS

If items are sold separately, all 29 pieces below must be included in Item #126 pricing:

Drill bit set should: (does not need to be red - include color on Bid Form)

- include 1/16" through 1/2" by 64ths, 3-flats up to 3/8", reduced shank and 3-flats above 3/8" nitro-tip drill bits
- have a nitro-tip design that cut up to 37% faster and stays sharp up to 50% longer
- include an easy self-starting tip that allow for work on curved surfaces and without starting with a smaller bit size
- have specialty nitride coated flutes to prevent chip build up and aid in chip extraction
- have self- centering
- weigh 3.5lbs & a length of 8-3/8"
- be packed in an indexed case
 - Set includes:

1. **7/64" NITRO-TIP DRILL BIT -- DB764NT**
2. **1/8" NITRO-TIP DRILL BIT -- DB18NT**
3. **9/64" NITRO-TIP DRILL BIT -- DB964NT**
4. **5/32" NITRO-TIP DRILL BIT -- DB532NT**
5. **11/64" NITRO-TIP DRILL BIT -- DB1164NT**
6. **3/16" NITRO-TIP DRILL BIT -- DB316NT**
7. **13/64" NITRO-TIP DRILL BIT -- DB1364NT**
8. **7/32" NITRO-TIP DRILL BIT -- DB732NT**
9. **15/64" NITRO-TIP DRILL BIT -- DB1564NT**
10. **1/4" NITRO-TIP DRILL BIT -- DB14NT**
11. **17/64" NITRO-TIP DRILL BIT -- DB1764NT**
12. **9/32" NITRO-TIP DRILL BIT -- DB932NT**
13. **19/64" NITRO-TIP DRILL BIT -- DB1964NT**
14. **5/16" NITRO-TIP DRILL BIT -- DB516NT**
15. **21/64" NITRO-TIP DRILL BIT -- DB2164NT**
16. **11/32" NITRO-TIP DRILL BIT -- DB1132NT**
17. **23/64" NITRO-TIP DRILL BIT -- DB2364NT**
18. **3/8" NITRO-TIP DRILL BIT -- DB38NT**

19. **25/64" REDUCED SHANK NITRO-TIP DRILL BIT -- DB2564NTRS**
20. **13/32" REDUCED SHANK NITRO-TIP DRILL BIT -- DB1332NTRS**
21. **27/64" REDUCED SHANK NITRO-TIP DRILL BIT -- DB2764NTRS**
22. **7/16" REDUCED SHANK NITRO-TIP DRILL BIT -- DB716NTRS**
23. **29/64" REDUCED SHANK NITRO-TIP DRILL BIT -- DB2964NTRS**
24. **15/32" REDUCED SHANK NITRO-TIP DRILL BIT -- DB1532NTRS**
25. **31/64" REDUCED SHANK NITRO-TIP DRILL BIT -- DB3164NTRS**
26. **1/2" REDUCED SHANK NITRO-TIP DRILL BIT -- DB12NTRS**
27. **1/16" NITRO-TIP DRILL BIT -- DB116NT**
28. **5/64" NITRO-TIP DRILL BIT -- DB564NT**
29. **3/32" NITRO-TIP DRILL BIT -- DB332NT**

Item (127) – 10 piece Left Hand Drill Bit Extractor Kit – #DEK10A

If items are sold separately, all 10 pieces below must be included in Item #127 pricing:

Extractor kit should:

- include five M42 cobalt mechanic's length left-hand drill bits in 5/64", 7/64", 5/32", 1/4" and 19/64"
- be used for removing broken bolts, studs, screws and lugs
- be for fastener thread sizes 3/32" – 5/8" (M3-M16)
- have five matching spiral fluted screw extractors labeled to pair with corresponding drill sizes
- be used with reversible drill to drill into fastener, then extractor drives itself into drilled hole to remove broken fastener without damaging threads
- be a spiral screw extractor type
- weigh 1lb
- be packed in an indexed case
 - Set includes:

1. **SCREW EXTRACTOR #5 -- EO5A**
2. **SCREW EXTRACTOR #4 -- EO4A**
3. **SCREW EXTRACTOR #3 -- EO3A**
4. **SCREW EXTRACTOR #1 -- EO1A**
5. **19/64" COBAL LEFT HAND DRILL BIT -- HDCLM19A**
6. **1/4" COBAL LEFT HAND DRILL BIT -- HDCLM16A**
7. **5/32" COBAL LEFT HAND DRILL BIT -- HDCLM10A**
8. **7/64" COBAL LEFT HAND DRILL BIT -- HDCLM7A**
9. **5/64" COBAL LEFT HAND DRILL BIT -- HDCLM5A**
10. **SCREW EXTRACTOR #2 -- EO2A**

Item (128) – Bionic Face Shield w/ Clear Lens – #S8500

Shield should:

- be designed to protect against airborne debris, dust and flying particles
- have a headgear w/ extended protection from the top of the head to underneath your chin
- be lightweight, w/ an ergonomic design to provide all day comfort
- meet Z87.1+ impact standard

Item (129) – Heavy-duty Master Feeler Gauge Valve Set – #AE3079M

Set should:

- be designed to make valve adjustments on heavy-duty trucks faster and easier
- have a double-end plastic handle that is color-coded light blue for intake and red for exhaust with three different configurations of offset blades
- include 6" blades with 1" 90° offset, 3" blades with 5/8" long 45° offset and 3" blades with 1" long 30° offset with 1/2" of 0.002" step

Item (130) – 4-5/16" to 4-3/4" Swivel Grip Oil Filter Wrench for Cummins and Detroit Diesel Engines – #OF50

Wrench should:

- work on Cummins and Detroit Diesel engines with a range of 4-5/16" to 4-3/4"
- have a tough, stainless steel band with permanently bonded textured coating for superior gripping power that won't slip
- have a swivel grip handle for easy turns in tight spots and is made of tubular steel for added strength and comes with a non-slip, double dip drip

Item (131) – 4-3/4" to 5-3/16" Swivel Grip Oil Filter Wrench for John Deere – #OF60

Wrench should:

- fit most John Deere tractors and also works on some Case, Case/IHC, Allis Chalmers tractors and other farm implement products with a range 4-3/4" to 5-3/16"
- have a tough, stainless steel band with permanently bonded textured coating for superior gripping power that won't slip
- have a swivel grip handle for easy turns in tight spots and is made of tubular steel for added strength and comes with a non-slip, double dip drip

Item (132) – 5-1/4" to 5-3/4" Swivel Grip Oil Filter Wrench for Caterpillar Engines – #OF70

Wrench should:

- work on Caterpillar engines and has a range of 5-1/4" to 5-3/4"
- have a tough, stainless steel band with permanently bonded textured coating for superior gripping power that won't slip
- have a swivel grip handle for easy turns in tight spots and is made of tubular steel for added strength and comes with a non-slip, double dip drip

Item (133) – 2lb Brass Hammer – #BRH32

Hammer should:

- feature hard tap, solid CDA 360 brass heads and hickory handles
- be 1-1/2" in diameter, weigh 2lbs & a 13" length, & a 4" head length
- be a soft face hammer type w/ a brass face material

Item (134) – 48oz Ball Peen Hammer w/ Fiberglass Handle – #BH48F

Hammer should have a:

- forged and hardened steel head for durability
- pultruded fiberglass handle and cushion grip
- weigh 3lbs & 16" handle length

Item (135) – 14lbs 30" Indestructible Sledge Hammer – #MATS1430

Hammer should:

- have an indestructible handle technology which outlasts wood & fiberglass handle hammers by thousands of overstrikes
- have spring steel bars that run all through the handle giving it strength to resist overstrikes
- have a steel locking plate in the hammer head that eliminate the head getting loose or coming apart
- have a rubber handle that greatly reduces vibration
- have a heat-treated head, hardened to 50 to 58 HRC
- meet ANSI specifications
- work in temperature range of 14°F to 122°F
- have a high-visible head for instant identification on any job site
- have an ergonomic rubber grip handle
- have a steel reinforced lanyard hole
- have a vulcanized rubber handle that protects the user in the event of striking an electrical wire
- have a rubber handle that is made from special grade of ozone resistant rubber for use in outdoor environments
- be 2-15/64" in diameter, weigh 14lbs & a 30" length, & a 7-39/64" head length
- be a sledge hammer type w/ a steel face material

Item (136) – Ultra Heat Gun Kit – #HG300A

Kit should:

- come with: 5 accessories for scraping, paint and adhesive removal, wiring and heat shrink
- feature an adjustable rear dial for temperature control and adjustable air flow at the on/off switch
- be 120 volts and 1500 watts
- have a 100°F minimum & a 1000°F maximum temperature setting
- weigh 3lbs, w/ a length of 10-1/2" & a cord length of 6.5ft

Item (137) – 12 piece Hand Impact Driver Set – #SID12PBA

If items are sold separately, all 12 pieces below must be included in Item #137 pricing:

Set should:

- include an impact driver, bit holder and ten S2 impact bits: T30, T40, T45, T47, T50, T55, P2, P3, P4 and 9/32 slotted
- be reversible 3/8" drive impact driver
- have a heavy-duty hexagon grip to prevent the impact driver from slipping
 - Set includes:
 1. 5/16" X 1-1/4" T30 TORX BIT -- BTX30BB
 2. 5/16" X 1-1/4" T40 TORX BIT -- BTX40BB
 3. 5/16" X 1-1/4" T45 TORX BIT -- BTX45BB
 4. 5/16" X 1-1/4" T47 TORX BIT -- BTX47BB
 5. 5/16" X 1-1/4" T50 TORX BIT -- BTX50BB
 6. 5/16" X 1-1/4" T55 TORX BIT -- BTX55BB
 7. 5/16" X 1-1/4" P2 BIT -- BP2BB
 8. 5/16" X 1-1/4" P3 BIT -- BP3BB
 9. 5/16" X 1-1/4" P4 BIT -- BP4BB
 10. 5/16" X 1-1/4" 9/32" BIT -- BS10BB
 11. 3/8" DRIVE SNAP RING BIT HOLDER 3/8" X 5/16" HEX HOLDER -- BP106D
 12. IMPACT DRIVER, 3/8" SQ. DR. -- ID67B

Item (138) – 100-125MM Outside Micrometer – #52-248-005-1

Micrometer should: (does not need to be blue-include color on Bid Form)

- 100-125mm range
- have spindle thread hardened, ground & lapped
- have microfine graduations on satin chrome and carbide tipped measuring faces
- have a ratchet stop thimble for exact and repetitive readings
- meet or exceeds Federal accuracy specs
- include a wrench and a fitted case
- standard included w/ set
- anvil and spindle hardened and precision ground w/ microlap finish on tips

***** End of Section III, Specifications *****

***** End of Bid Document *****