DFP ECB-075
Revision B
CAGE 5B5M3
2 October 2024

DESCRIPTION FOR PURCHASE

STANDARD AUTOMOTIVE TOOL SET-STURDY MOBILE (SATS-SM)

1 SCOPE

1.1 Distribution Statement A. Approved for public release; distribution is unlimited.

1.2 Background. This specification describes a set consisting of selected tools and equipment used to sustain a wide variety of tactical and combat equipment used on the battlefield, primarily automotive vehicles. The set consists of a core selection of tools and equipment placed in rugged storage media that can be used within a shop environment.

2 APPLICABLE DOCUMENTS

2.1 General. The documents listed in this section are specified in sections 3 and 4 of this Description for Purchase (DFP). This section does not include documents citied in other sections of this DFP or documents recommended for additional information or as examples. While every effort has been made to ensure that completeness of this list, DFP users are cautioned that they must meet all specified requirements of documents citied in sections 3 and 4 of this specification, whether or not they are listed.

2.2 Order of Precedence. In the event of a conflict of interest between the text of this DFP and the references citied, the text of this document takes precedence. However, nothing in this document supersedes applicable laws and regulations unless a specific exemption has been obtained.

2.3 Government Documents. The Government specifications, standards, handbooks, and documents listed form a part of this document to the extent specified in this document. Unless otherwise specified, the issues of these documents are those listed in the issue of the Department of Defense Index of Specifications and Standards (DoDISS) citied in this solicitation.

2.3.1 Government Specifications.

Federal

A-A-1068	- Funnel
A-A-2566	- Bar, Wrecking

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A-A-50271	- Plate, Identification
A-A-51128	- Torch Kit
A-A-59486	- Padlock Set
A-A-59568	- Gauges, Tire Pressure
GGG-P-00474	- Pliers, Brake (Reference only-spec cancelled)

2.3.2 Government Standards.

Department of Defense

MIL-STD-130	- Identification Marking of U.S. Military Property
MIL-STD-1472	- Human Engineering

2.3.3 Government Instructions, Directives, and Regulations

Occupational Safety and Health Administration

OSHAProgram Directive #100-1	- Air Pressure Below 30 pounds per square inch
29 CFR 1910.177	- Servicing Rim Wheels

2.4 Non-Government Publications. The documents listed form a part of this document to the extent specified in this document. Unless otherwise specified, the issues of these documents are those listed in the issue of the DoDISS citied in this solicitation.

American National Standards Institute

ANSI B165.1	- Power driven brush tools
ANSI Z87.1	- Occupational and Educational Personal Eye and Face Protection Devices
ANSI Z535.4	- Product Safety Signs and Labels
ANSI/ISEA Z358.1	- Emergency Eyewash and Shower Equipment

(Application for copies should be addressed to the American National Standards Institute, 11 W. 42nd Street, New York, New York 10036.)

American Society of Mechanical Engineers

ASME B94.52M	- Specifications for Hacksaw Blades
ASME B107.21	- Wrench, Crowfoot
ASME B107.100	- Flat Wrenches
ASME B107.110	- Socket Wrenches, Handles, and Attachments
ASME B107.300	- Torque Instruments
ASME B107.410	- Struck Tools
ASME B107.500	- Pliers
ASME PALD	- Portable Automotive Lifting Devices

(Application for copies should be addressed to the American Society of Mechanical Engineers, Three Park Avenue, New York, NY 10016-5990)

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International Standards Organization

ISO 16022	- Information Technology Automatic Identification and Data Capture Techniques Data Matrix Bar Code Symbology Specification

(Application for copies should be addressed to the ISO Copyright Office, Case Postale 56, CH1211, Geneva 20, Switzerland.)

National Electrical Manufacturers Association

NEMA-5-15P	- Plugs
NEMA-5-15R	- Receptacles

Society of Automotive Engineers

SAE J1494	- Battery Booster Cables

3 REQUIREMENTS

3.1 System Requirements. The SATS-SM system shall be comprised of five roll around tool storage media [labeled “G”, “H”, “J”, “K”, and “L”] loaded with tools as described within this document as well as an assortment of additional hand tools described in this document that shall be commercially packaged separate from the storage media. The system shall be appropriately packaged for shipment to government designated locations. The system shall meet the following requirements.

3.1.1 Workmanship. The quality of workmanship imparted to the components of the SATSSM shall equal or exceed that typically provided by domestically produced commercial products of this type. The SATS-SM components shall be manufactured with skill and care; shall be uniform, neat, and clean; and shall be free from irregularities and anomalies which degrade form, fit, function, performance, or appearance.

3.1.2 Reliability/Maintainability. The components of the SATS-SM are expected to be used in a similar manner and in a similar environment as that of the comparable commercial tools. Although no equipment variations are expected, any significant differences between the commercial and military versions that may be required must be implemented without a significant negative effect on the Reliability and Maintainability (R&M), safety, or logistics capabilities of the military version.

3.1.3 System Durability. While the fully loaded SATS-SM storage media are secured, they shall be capable of withstanding the following conditions without permanent damage or deformation to any component. During these conditions all tools shall stay in their appropriate storage locations without damage and remain mission capable.

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3.1.3.1 Rolling Requirement. The storage media shall include casters/rolling devices to allow movement of the media within a maintenance shop environment (pavement). At least two of the devices shall be integrated with locking mechanisms to hold the media in place. The caster/rolling devices shall be of sufficient strength to withstand the entire weight of the fully loaded storage media while also allowing access underneath the storage media in the event material handling equipment is desired to move the storage media over longer distances and/or into transport vehicles. The system shall also be capable of withstanding common shocks experienced during rolling in a maintenance shop environment. The wheels provided shall be rugged and capable to withstand extended use.

3.1.4 Markings. Markings include all plates, labels, stencils, and stickers affixed to the system, and/or its components. All markings shall be permanently affixed to the SATS-SM storage media or component, as appropriate. All markings shall be resistant to deterioration caused by heat, cold, solar radiation, water, and petroleum products to the extent that they will remain intact and legible for the expected economic life of the SATS-SM. All markings shall be accomplished in a manner that does not adversely affect the life and utility of the SATS-SM or its equipment. All human readable markings shall be printed in the English language and may be supplemented by graphical symbols for clarification. All label, stencil, and sticker letters and numbers shall be black, except over a black background, in which these letters and numbers shall be contrasted to ease visibility.

3.1.4.1 System Identification. Each SATS-SM storage media shall have a human readable information plate permanently affixed to the outside of the storage media in a location that is plainly visible. Unless otherwise approved, the data plate shall conform to Commercial Item Description A-A-50271 Composition A, Class 2 or Composition D. The system identification plate will include the following information:

1. Nomenclature: Standard Automotive Tool Set Sturdy Mobile (SATS-SM)
2. Storage Media {shall be “G”, “H”, “J”, “K”, “L” as applicable}
3. Storage Media weight: [as determined by weighing a loaded media chest]
4. Specification Data: DFP ECB-075
5. Specification Data CAGE: 5B5M3
6. Manufacturer Commercial And Government Entity (CAGE):
7. Manufacturer Part Number: [as determined by the contractor]
8. Serial Number: [as determined by the contractor]
9. Acquisition Instrument Identification Number: [contract number]

3.1.4.2 Logistical Support

3.1.4.2.1 Component Identification. A complete list of tools including the nomenclature, manufacturer’s part number, NSN (if applicable), quantity, and storage media location (if applicable) shall be provided to the government. Any set or assemblage within the SATS-SM shall also identify to the component level of that set the nomenclature, manufacturer's part number, NSN (if applicable), and quantity. (For example a socket set shall identify all components within it). Regarding the storage

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media, the contractor shall identify the cabinet assembly and individual components to include cabinet drawers, casters, foam, and attaching hardware.

3.1.4.2.2 Warranty Replacement. A complete list of warranties for each component, including the storage media, shall be provided to the government. The Warranty shall comply with required warranty duration as identified in Appendix A of the DFP. Warranty information shall include the following:

1. Government contract and delivery order number
2. Date of manufacture (month and year)
3. Instructions for submitting a claim including information such as:
    - Individual with responsibility to authorize claim
    - Date and location of incident
    - Unit location and DODAAC
    - Ship to address
    - Description of circumstances of component failure
4. Name and address of contractor, and any other means of contacting the contractor such as data fax number or e-mail address.

3.1.4.2.3 Non-Warranty Replacement. For the non-warranty ordering of replacement tools from the contractor, the procedures as determined by the contractor (including phone number, web site, and e-mail address if applicable) shall be provided to the government.

3.1.4.3 Lifting Caution. A lifting caution sign shall be permanently affixed to any component of the SATS-SM if the weight of that item exceeds the acceptable weight limit for a single lifter lifting an object from the floor to a surface equal to or greater than 5 ft from the ground according to MIL-STD-1472. The caution sign shall identify the minimum number of people required to lift the item according to the restrictions outlined in MIL-STD-1472.

3.1.4.4 Safety Signs. All product safety signs and labels shall conform to ANSI Z535.4.

3.1.4.5 Unique Identifier. A Unique Identifier (UID) data plate has been determined to be not required for this procurement.

3.1.5 Economic Life. The SATS-SM shall have a projected economic life of no less than fifteen years under the service conditions described herein.

3.1.6 Disposal. The SATS-SM shall be disposable under U.S., foreign, and international environmental quality laws and regulations. The design, production, operation, maintenance, and disposal of the system shall eliminate, or minimize to the greatest extent possible, adverse environmental quality impacts. The contractor shall also take the appropriate steps to minimize the materials in the SATS-SM that may have special disposal procedures.

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3.2 Storage Media Requirements. The storage media shall provide storage, transportation, and physical security for the tools described in this DFP that identify a storage media location. The five storage media shall be labeled as "G", "H", "J", "K", and "L" to maintain continuity regarding previous designs and designated locations. The storage media shall meet the following requirements.

3.2.1 Materials. The media shall be made of any suitable material that will meet all of the performance requirements set forth in this DFP. The media, and its associated hardware, shall be constructed of materials that are corrosion resistant, or suitably processed to withstand long term attacks from corrosive atmospheric conditions. All materials used in the production of the storage media shall resist fungus. The use of toxic chemicals, hazardous substances, and ozone depleting chemicals (ODCs) in the storage media material shall be avoided to the maximum extent practical. The manufacturer shall also avoid the use of toxic chemicals, hazardous substances, and ODCs in the production of the storage media to the maximum extent practical.

3.2.2 Storage Media Layout. The storage media shall include trays or drawers that allow easy access to all of the applicable components in the SATS-SM that identify a storage media location. The storage media shall be designed so that the operator is not required to remove sections of the SATS-SM to gain access to tools. The storage media shall include a device that is permanently affixed to the media that secures the trays or drawers from opening while the media is being transported.

3.2.3 Drawers. Drawers in the storage media shall be hung in such a manner that they don't interfere with other drawers. All tools in the drawer shall be accessible when a drawer is fully opened. Each drawer shall be appropriately labeled with the contents of the drawer so that the user can identify the drawers in there closed position. Drawer labels shall be contrasting colors with a height of no less than 1/2". The storage media shall be furnished with an adequate number of drawers and corresponding drawer sizes to accommodate all of the tools in the SATSSM that identify a storage media location. To adhere to MIL-STD-1472, the width of the drawers and the location of their lock-in/lock-out devices shall accommodate the 5th percentile Army female functional reach of 25.2 inches, and the top of the highest drawer shall be no higher than 55 inches to accommodate the eye height of the 5th percentile Army female to allow her to view and retrieve items. Clearance in front of the handles of open drawers and clearance for shelving doors shall be sufficient to assure soldiers wearing insulated work gloves are able to grasp them and open the drawer.

3.2.4 Finish. The exterior surface finish of the storage media shall be clean and free of any visible imperfections. The storage media shall be coated as applicable to prevent corrosion during the intended economic useful life of the system. Neither the interior not exterior of the storage media, or its associated hardware, shall have any sharp edges or projects that may present a hazard to the user.

3.2.5 Security. The storage media shall include a locking feature for that entire media that uses no more than 2 padlocks. The locking feature shall prevent access to all drawers and trays. The system shall transition from operational to fully secure in 1 minutes or less, not including placing the tools in the tool chest. The locking feature shall accommodate key-operated, tumbler type padlocks conforming to Commercial Item Description (CID) A-A-59486. The

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appropriate number of padlocks required to secure the media shall be provided with the each SATS-SM. If two padlocks are required to secure a storage media they shall be keyed alike and the same for the rest of the storage media (ie other 4 medias), however, each SATS-SM padlock set shall be keyed individually.

3.3 Tool Organization. The majority of tools in the SATS-SM storage in the storage media shall have a contoured retention device that holds the tools in place, protects them during transport within the shop, and aids in rapidly inventorying the tool load unless is it impractical to do so (ie bages, gloves, etc). The tools that do not identify a storage media location shall be commercially packaged and shipped as part of the overall shipment of the SATS-SM. The tool organization device for the storage media shall meet the following requirements.

3.3.1 Retention Device. Each drawer and tray shall include a tool retention device that is designed to protect the tools and hold them in place during handling and shipping. The retention device shall be contoured to hold each individual tool snugly and completely in separate pockets or retention features. As applicable, a finger pick relief of no less than 1" diameter, or protrusion of tools above the tool organizing liner, shall be provided for tools that would otherwise be difficult to remove. The design of the retention features should allow for easy access and allow the user to remove or replace tools with a single hand. The retention device shall fill the drawer/tray from side to side and front to back unless the empty space is designed to hold any of the tools deemed impractical to have specific retention devices. The retention features shall be designed to hold the tool fully assembled and ready for use (i.e. hacksaw blade in hacksaw, lenses in goggles). The tool retention device shall be resistant to water, automotive oils, greases, lubricants, cleaning agents, gasoline, diesel fuel, JP-8, and fungus.

3.3.2 Tool Layout. Similar tools (i.e. wrenches, files, etc), or items that will often be used together shall be stored in close proximity to one another to the maximum extent practical and in accordance to the tool description that designates the specific storage media (ie G, H, J, K, or L). Tools shall also be stored in such a way that limits the number of sharp edges exposed and the number of protrusions above the retention device that may cause the tool to be inadvertently damaged.

3.3.3 Rapid Inventory. The storage media layout, tool selection, and tool retention device shall be designed to promote the rapid inventory of the SATS-SM. The methods employed shall enable the user to verify that all items are present and secured in their designated location within a single storage media in 20 minutes or less [ie 100 minutes for all 5 storage media]. In the event an item is absent from the media, the user shall be provided with the means to quickly identify the specific item by name and description. .

3.4 Tool Requirements. The SATS-SM shall be delivered to the Government with all of the tools specified in Appendix A. The tools provided shall meet the following requirements.

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3.4.1 Industrial Quality Tools. Unless otherwise specified, all components supplied with this system shall be industrial quality, as defined in section 3.4.1.1. "Industrial Quality Definition." If the industrial quality of a tool is questioned by the Government, the supplier shall provide proof that the tool is industrial quality according to paragraph 3.4.1.2. "Market Acceptance."

3.4.1.1 Industrial Quality Definition. For the purpose of this procurement, the term "industrial quality" tools versus household-use tools or general purpose tools is defined as tools commercially marketed and manufactured for constant, rigorous, industrial or professional environment use. Industrial quality tools must have demonstrated market acceptance in an industrial atmosphere or application. Industrial quality tools are used primarily by skilled professionals and technicians in areas such as machine shops, automotive maintenance and repair facilities, aircraft maintenance and repair facilities, industrial automotive assembly plants, fleet maintenance facilities, and airline services. The tools shall be designed to be used for specialized applications in an environment of virtual constant use, (i.e. around-the-clock 8 hour shifts), with applications requiring high torque, low slippage, and strict tolerances.

3.4.1.2 Market Acceptance. In the event that the Government is unable to determine from the offered product literature and associated information that a product meets the definition of industrial quality tools and discussions are therefore opened, offerors shall be prepared to offer evidence of market acceptance in the professional or industrial market. Evidence of acceptance by industrial/professional customers include sales to fleet operators, distributors, contractors, industrial and professional users, and sales to distributors who retail exclusively to the professional or industrial market. Advertising or marketing literature that indicates "professional grade" or "industrial quality", or merely stating that an item is "professional grade" or "industrial quality" is insufficient to establish industrial/professional quality since these are terms for which there is no generally acceptable definition. A claim that an item is manufactured to an industry consensus standard is also insufficient to establish industrial or professional quality.

3.4.2 Common Tools. As an aid to rapid inventory, it is desired that tools of similar types (i.e. wrenches, calipers, etc) are from the same manufacturer and brand. If the tools within a type are different brands, the user will need to inspect and compare each individual tool against the supply catalog to determine if there has been an unauthorized substitution.

3.4.3 Tool Warranty. All components shall be warranted as stated in Appendix A. The offeror shall state the length and terms of the manufacturer's warranties in response to the solicitation. The warranties shall become part of the contract or delivery order. The required warranties are defined in the table as "C", the manufacturer's commercial warranty; "L", manufacturer's lifetime warranty; "N", no warranty.

3.4.4 Federal Supply Group. The Federal Supply Group (FSG) is provided to aid in the determination of applicability of Buy American and Berry Amendment laws.

3.4.5 Tool Load. The tools identified shall be supplied in quantities and placed in applicable storage media as indicated in Appendix A. Each item is then described separately in greater detail after the list. Variation in design characteristics based on a supplier's common practice is

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acceptable provided those variations do not hinder the operation of the tool, the operator of the tool, or require additional time to complete a task with that tool. Items that are not required to be in storage media may be grouped and packaged to reduce footprint and shipping costs.

4 QUALITY CONTROL

4.1 General Provisions. The product verifications and conformance inspections stated herein shall be performed to determine whether the item conforms to Section 3 of this DFP. Unless otherwise specified in the contract, all verifications and inspections shall be performed in accordance with the conditions specified herein. The contractor is responsible for the performance of all product verifications and conformance inspections specified herein. The contractor may use its own or any other facilities suitable for the performance of the verifications and inspections, unless disapproved by the Government. The contractor shall verify that all requirements are met prior to providing a SATS-SM for evaluation.

4.1.1 Government Inspection Rights. The Government reserves the right to perform any of the verifications and inspections set forth in this DFP, at any date and in its own facilities, where such verifications and inspections are deemed necessary to assure supplies and services conform to prescribed requirements. The absence of any verification requirements shall not relieve the contractor of the responsibility of assuring that all products submitted to the Govt. for acceptance comply with all requirements of this DFP and the contract. The absence of any verification requirements shall not relieve the contractor of the responsibility of assuring that all products submitted to the Government for acceptance comply with all requirements of this DFP and the contract.

4.1.2 Classification of Inspections. The inspection requirements specified herein are classified as follows:

a. Preproduction verification inspection (see paragraph 4.2)
b. Conformance inspection (see paragraph 4.3)

4.2 Preproduction Verification Inspection. Product performance verification is performed before full production begins and is intended to verify that the product is designed and manufactured to meet the requirements of this specification. It includes visual and manual inspections, some of which result in measured or counted values, as well as tests and demonstrations to prove compliance of the tested product and all of its assemblies and subcomponents with the requirements of this document. It also includes the product conformance inspections, as described in paragraph 4.3 that will be performed during production to prove that all inspected characteristics are in compliance at the beginning of production. Product submittal, inspections and acceptance criteria are as follows.

4.2.1 Contractor Submission. The contractor shall submit one or more SATS-SM for verification as designated by the Contracting Officer for evaluation in accordance with the specified requirements outlined in this DFP.

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4.2.2 Government Inspections. Although the contractor is responsible for the performance of all inspection requirements as specified herein, the kit assemblies, components and test specimens may be subjected to any or all of the verifications and inspections specified in section 4 herein.

4.2.3 Rejection. If any SATS-SM assembly, component or specimen fails to comply with any of the applicable requirements, the entire kit shall be rejected. The Government reserves the right to terminate further verifications and inspections upon any failure of a kit assembly, specimen or component to comply with any of the requirements.

4.3 Conformance Inspection. Conformance inspection shall be applied to SATS-SM units being offered for acceptance under the contract. These inspections shall include all verifications listed in sections 4.4. Sampling plan determinations and lot formations for production units (Quality Control during production) shall be determined by the contractor and provided to the government for acceptance. Failure of any unit to pass any verification shall be cause for rejection of the lot.

4.4 Product Performance Verification. The following inspections shall be performed to test for compliance to section 3 of this DFP.

4.4.1 System Requirements. The system as a whole, including the storage media, tool load, and the necessary devices and characteristics provided for rapid inventory capability, protection, and security for the tools shall be subject to the following quality checks. Verify there are 5 chest labeled per 3.1. Verify all tools are present within their required storage location (as applicable) and remaining tools are present that do not have designated storage locations within the storage media..

4.4.1.1 Workmanship. Verify the quality of workmanship imparted to the components of the SATS-SM are equal or exceed that typically provided by domestically produced commercial products of this type. Verify the SATS-SM components are manufactured with skill and care; uniform, neat, and clean; and free from irregularities and anomalies which degrade form, fit, function, performance, or appearance.

4.4.1.2 Reliability/Maintainability. Verify that any significant differences between the commercial and military versions [if applicable] don't have a significant negative effect on the Reliability and Maintainability (R&M), safety, or logistics capabilities of the military versions.

4.4.1.3 System Durability. The system shall be tested under the following conditions. Any permanent damage or deformation to the system or tool load shall be cause for rejection.

4.4.1.3.1 Rolling Requirement. Demonstrate the fully loaded storage media by rolling it around on paved, hard floor surfaces to show the ability of the wheels to roll within a shop environment. Verify that the caster/rolling devices show no deformation themselves or to the fully loaded storage media. Verify there is sufficient space under the storage media to allow the media to be picked up with Material Handling Equipment (MHE) such as a fork truck.

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4.4.1.4 Markings. Verify all markings are permanently affixed to the SATS-SM storage media or component, as appropriate. Verify all markings are resistant to deterioration caused by heat, cold, solar radiation, water, and petroleum products to the extent that they will remain intact and legible for the expected economic life of the SATS-SM. Verify all markings are accomplished in a manner that does not adversely affect the life and utility of the SATS-SM or its equipment. Verify all human readable markings are printed in the English language. Verify all label, stencil, and sticker letters and numbers are black, except over a black background, in which these letters shall be contrasted to ease visibility.

4.4.1.4.1 System Identification. Verify each SATS-SM storage media has a human readable information plate permanently affixed to the outside of the tool chest in a location that is plainly visible. Verify the information plate has all of the information required in section 3.1.4.1.

4.4.1.4.2 Logistical Support. Verify compliance to 3.1.4.2.1, 3.1.4.2.2 and 3.1.4.2.3 as follows:

4.4.1.4.2.1 Component Identification. Verify the contractor has provided a complete list of tools to include the information as specified in 3.1.4.2.1 [Nomenclature, Manufacturer's part number, NSN (if applicable), quantity, and storage media location (if applicable).

4.4.1.4.2.2 Warranty Replacement. Verify the contractor has provided a complete list of warranties for each component as required in 3.1.4.2.2 and that they comply with required warranty as indicated in Appendix A of the DFP.

4.4.1.4.2.3 Non-Warranty Replacement. Verify the contractor has provided information to allow the ordering of replacement items that are not warranted.

4.4.1.4.3 Lifting Caution. Verify a lifting caution sign is permanently affixed to any component of the SATS-SM if the weight of that item exceeds the acceptable weight limit for a single male lifter lifting an object from the floor to a surface equal to or greater than 5 ft from the ground according to MIL-STD-1472. Verify the caution sign identifies the minimum number of people required to lift the item according to the restrictions outlined in MIL-STD-1472.

4.4.1.4.4 Safety Signs. Verify all product safety signs and labels conform to ANSI Z535.4.

4.4.1.4.5 Unique Identifier. Not required for this procurement.

4.4.1.5 Economic Life. Verify by component inspection that the SATS-SM is projected to have an economic life of no less than fifteen years under the service conditions described herein.

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4.4.1.6 Disposal. Verify the SATS-SM is disposable under U.S., foreign, and international environmental quality laws and regulations. Verify the design, production, operation, maintenance, and disposal of the system eliminates, or minimizes to the greatest extent possible, adverse environmental quality impacts. Verify the contractor has taken the appropriate steps to minimize the materials in the SATS-SM that may have special disposal procedures.

4.4.2 Storage Media Requirements. The storage media shall be subject to the following quality checks.

4.4.2.1 Materials. Verify the storage media is made of a suitable material that will meet all of the performance requirements set forth in this DFP. Verify the media, and its associated hardware, is constructed of materials that are corrosion resistant, or suitably processed to withstand long term attacks from corrosive atmospheric conditions. Verify all materials used in the production of the storage media resist fungus. Verify the use of toxic chemicals, hazardous substances, and ozone depleting chemicals (ODCs) in the storage media material have been avoided. Verify the manufacturer has avoided the use of toxic chemicals, hazardous substances, and ODCs in the production of the media to the maximum extent practical. The Contractor shall submit a Certificate of Conformance (CoC) stating all the requirements as specified in 3.2.1 are met.

4.4.2.2 Tool Chest Layout. Verify the storage media includes trays or drawers that allow easy access to all of the applicable components stored in the SATS-SM. Verify the media is designed so that the operator is not required to remove sections of the SATS-SM to gain access to tools. Verify the storage media includes a device that is permanently affixed to the tool chest that secures the trays or drawers while the chest is being transported.

4.4.2.3 Drawers. As required in 3.2.3, verify the drawers in the storage media are hung in such a manner that they don't interfere with other drawers. Verify all of the tools in the drawer are accessible when a drawer is fully opened. Verify each drawer is appropriately labeled with the contents of the drawer so that the user can identify the drawers in there closed position. Verify drawer labels have contrasting colors with a height of no less than 1/2". Verify the storage media is furnished with an adequate number of drawers and corresponding drawer sizes to accommodate all of the tools in the SATS-SM with a designated storage location. Verify the width of the drawers as well as the top of the highest drawer adhere to MIL-STD-1472 requirements. Verify the drawers can be opened by soldiers wearing work gloves.

4.4.2.4 Finish. Verify the exterior surface finish is clean and free of any visible imperfections. Verify the storage media is coated as applicable to prevent corrosion during the intended economic useful life of the system. Verify neither the interior not exterior of the storage media, or its associated hardware, have any sharp edges or projects that may present a hazard to the user. The Contractor shall submit a CoC stating all requirements as specified in 3.2.4 are met.

4.4.2.5 Security. Verify the storage media includes a locking feature for the entire media that uses no more than 2 padlocks. Verify the locking feature prevents access to all drawers

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and trays. Verify the system can transition from operational to fully secure in 1 minutes or less, not including placing the tools in the tool chest. Verify the locking feature can accommodate keyoperated, tumbler type padlocks conforming to Commercial Item Description (CID) A-A-59486. Verify the appropriate number of padlocks required to secure the chest are provided with the each SATS-SM. Verify that if two padlocks are required to secure a media they are keyed alike as well as the same for the remaining media for that SATS-SM, but each SATS-SM padlock set is keyed individually.

4.4.3 Tool Organization. Verify that tools that are not required to be stored in storage media are provided in addition to those that are supplied in storage media. The tool organization devices and characteristics shall be subject to the following quality checks for tools supplied in storage media.

4.4.3.1 Retention Device. Verify each drawer and tray includes a tool retention device that is designed to protect the tools and hold them in place during rough handling and shipping. Verify the retention devices are contoured to hold each individual tool snugly and completely in separate pockets or retention features. As applicable, verify a finger pick relief of no less than 1", or protrusion of tools above the tool organizing liner, is provided for tools that would otherwise be difficult to remove. Verify the design of the retention features allows for easy access and allows the user to remove or replace tools with a single hand. Verify the retention device fills the drawer/tray from side to side and front to back unless the empty space is designed to hold any of the exempt tools. Verify the retention features are designed to hold the tool fully assembled and ready for use. Verify the tool retention devices are resistant to water, automotive oils, greases, lubricants, cleaning agents, gasoline, diesel fuel, JP-8, and fungus.

4.4.3.2 Tool Layout. Verify that similar tools, or items that will often be used together, are stored in close proximity to one another to the maximum extent practical and in accordance to the tool description that designates the specific location (ie G, H, J, K, or L). Verify that to the maximum extent practical, tools are stored in such a way that limits the number of sharp edges exposed and the number of protrusions above the retention device that may cause the tool to be inadvertently damaged.

4.4.3.3 Rapid Inventory. Verify the storage media layout, tool selection, and tool retention device are designed to promote the rapid inventory of the SATS-SM. Verify the methods employed enable the user to verify that all items are present and secured in their designated location within a single storage media in 20 minutes or less. (ie 100 minutes for all 5 storage media]). Verify the user is provided with the means to quickly identify specific items by name and description.

4.4.4 Tool Requirements. Verify the SATS-SM delivered to the government contains all the tools as specified in Appendix A. The tools provided shall be subject to the following quality checks.

4.4.4.1 Industrial Quality Tools. Verify that all of the tools provided in the SATS-SM that are required to meet industrial quality standards meet these standards according to sections 3.4.1.1. and 3.4.1.2.

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4.4.4.2 Common Tools. Inspect the tools to determine if the contractor procured similar types of tools from the same manufacturer and brand. Although this is not a requirement it is desired.

4.4.4.3 Tool Warranty. Verify all components are warranted as stated in Appendix A.

4.4.4.4 Federal Supply Group. Verify the solicitor meets Buy American and Berry Amendment laws as applicable according to the FSG of each tool. A number of tools are exempt from this requirement since a Berry Amendment compliant source could not be identified. A list of tools exempt from the Berry Amendment shall be provided with the solicitation by the government stated in a Domestic Non-Availability Determination (DNAD).

4.4.4.5 Tool Load. Verify that tools provided are in sufficient quantities, in storage media (as applicable), separately grouped and packaged (as applicable) and meet the descriptions as provided in Appendix A.

5 PACKAGING: Packaging shall be stated elsewhere within solicitation and are not a part of this Description For Purchase.

6 NOTES: The SATS-SM was previously procured under the DFP for the SATS. The SATS-SM is an Army Working Capital Fund (AWCF) item that can be ordered by units in need of maintenance tools. The SATS-SM was designed to replace the tools previously provided in Common #1, Common #2, and supplements thereof used in a shop environment. The SATS-SM
is designed to be used in a shop environment where as the SATS is a shelter mounted system to conduct field level maintenance operations.

Appendix A

SATS–SM Tool Load

#	NOMENCLATURE	FEDERAL SUPPLY GROUP (FSG)	UI	QTY	WTY*	Storage Media Location
1	ADAPTER KIT, GREASE GUN COUPLING	49	KT	1	C	H
2	ADJUSTING TOOL, BRAKE SHOE	51	EA	1	L	H
3	ANALYZER, DIGITAL BATTERY (6130-01-5109594)	61	EA	1	C	N/A
4	APRON, UTILITY	84	EA	1	C	K
5	BAR, PINCH, 26”	51	EA	2	L	L
6	BAR, PINCH, 36”	51	EA	1	L	N/A
7	BAR, WRECKING	51	EA	1	L	L

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8	BATTERY FILLER, GRAVITY	61	EA	1	C	H
9	BATTERY FILLER, SYRINGE	61	EA	2	C	H
10	BATTERY KIT, SERVICE	51	KT	1	C	H
11	BENDER SET, TUBE, HAND ACTUATED	51	SE	1	N	L
12	BLADE, HAND HACKSAW	51	BD	1	N	L
13	BLADE, ABRASIVE, CUTOFF	51	PG	1	N	K
14	BLOW GUN, AIR	49	EA	2	C	K
15	BOX, TOTE	81	EA	5	C	N/A
16	BRAZING AND SOLDERING SET	34	EA	1	C	H
17	BRUSH, FILE CLEANER	51	EA	1	C	H
18	BRUSH, WIRE, ROTARY, END ATTACHMENT, SOLID WIRE FILLED	51	EA	1	N	H
19	BRUSH, WIRE, ROTARY, END ATTACHMENT, CIRCULAR, SIDE FLARE	51	EA	1	N	H
20	BRUSH, WIRE, SCRATCH	79	EA	1	N	H
21	CABLE ASSEMBLY, POWER	61	EA	2	C	G
22	CABLE ASSEMBLY, BOOSTER	61	EA	2	C	N/A
23	CABLE KIT, SPECIAL POWER	61	EA	1		N/A
24	CALIPER, MICROMETER, INSIDE	52	EA	1	L	G
25	CALIPER, VERNIER	52	EA	1	L	G
26	CAN, RADIATOR FILLING	72	EA	2	C	N/A
27	CAPS, VISE JAW	51	PR	2	N	K
28	CHARGER, BATTERY	61	EA	1	C	N/A
29	CLAMP, C	51	EA	2	L	L
30	(NOT USED)	N/A				

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31	COMPRESSOR UNIT, RECRIPROCATING	43	EA	1	C	N/A
32	CREEPER, MECHANIC'S	51	EA	5	C	N/A
33	CRIMPING TOOL, TERMINAL	51	EA	1	C	J
34	CROWBAR	51	EA	1	L	N/A
35	CROWFOOT ATTACHMENT SET, SOCKET WRENCH, FLARE NUT, INCH	51	SE	1	L	J
36	CROWFOOT ATTACHMENT SET, SOCKET WRENCH, FLARE NUT, METRIC	51	SE	1	L	J
37	CUTTING AND FLARING KIT, TUBE	51	KT	1	C	L
38	CUTTER, BOLT, LIGHTWEIGHT, 24"	51	EA	1	L	L
39	CUTTER, BOLT, REPLACEMENT HEAD	51	EA	1	N	L
40	DEGREASER, PORTABLE	49	EA	1		N/A
41	DIE AND TAP SET, RETHREADING	51	SE	1	L	J
42	DIE AND TAP SET, THREAD	51	SE	1	L	J
43	DRESSER, ABRASIVE WHEEL	51	EA	1	C	K
44	DRILL-DRIVER, BATTERY OPERATED, RECHARGEABLE	51	EA	1	C	K
45	DRILL- DRIVER, ELECTRIC, ½”	51	EA	1	C	K
46	DRILL, BATTERY OPERATED, RECHARGEABLE, RIGHT ANGLE, 3/8”	51	EA	1	C	K
47	DRILL, ELECTRIC, PORTABLE, 3/8”	51	EA	2	C	K
48	DRILL, ELECTRIC, PORTABLE, ½”	51	EA	1	C	K
49	DRILL, PNEUMATIC, RIGHT ANGLE, 3/8”	51	EA	1	C	K

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50	DRILL SET, TWIST	51	SE	1	N	K
51	DRILL SET, TWIST, LEFT HAND	51	SE	1	N	K
52	(NOT USED)	N/A	EA	2		
53	EXTRACTOR SET, SCREW	51	SE	1	N	K
54	EXTRACTOR SET, HARDENED SCREW	51	SE	2	C	K
55	FACE SHIELD, INDUSTRIAL	42	EA	1	C	K
56	FILE SET, HAND	51	SE	1	C	L
57	FILE SET, THREAD RESTORER	51	SE	1	C	L
58	FILLER AND BLEEDER KIT, BRAKE SYSTEM	51	KT	1	C	H
59	(NOT USED)					
60	FINGER, MECHANICAL	51	EA	1	C	L
61	FOUNTAIN, EYE AND FACE	42	EA	1	C	N/A
62	FUNNEL	72	EA	1	N	N/A
63	FUNNEL, FLEXIBLE SPOUT	72	EA	1	N	N/A
64	GAGE, BOLT AND THREAD, METRIC	52	EA	2	L	J
65	GAGE, BOLT AND THREAD, STANDARD	52	EA	2	L	J
66	GAGE, WHEEL ALIGNMENT	52	EA	1	C	N/A
67	GLOVES, RUBBER, INDUSTRIAL	84	PR	1	N	K
68	GOGGLES, INDUSTRIAL	42	PR	1	N	K
69	GREASE GUN KIT	49	KT	1	C	N/A
70	GREASE GUN, PNEUMATIC	49	EA	1	C	H
71	GRINDING MACHINE, UTILITY	49	EA	1	C	N/A
72	GUN, FLUID, DIRECT DELIVERY	49	EA	2	C	N/A

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73	HAMMER, HAND, CARPENTER'S, CURVED CLAW, 16 OZ	51	EA	2	C	L
74	HAMMER, HAND, SOFT FACE, DEAD BLOW, 52 OZ	51	EA	2	C	L
75	HAMMER, HAND, SOFT FACE, DEAD BLOW, 10 OZ	51	EA	2	C	L
76	HAMMER, SLEDGE, DOUBLE FACED, 10 LB	51	EA	2	C	N/A
77	HAMMER, HAND, DEAD BLOW, BALL PEEN, 40 OZ	51	EA	2	C	L
78	HAMMER SET, HOLDER AND INSERTS	51	SE	1	C	L
79	HAMMER, PNEUMATIC, HAND HELD	51	EA	1	C	L
80	HOLDER, PUNCH AND CHISEL	51	EA	1	C	L
81	HOSE ASSEMBLY, AIR, NON-METALLIC	49	EA	2	C	N/A
82	INDICATOR, DIAL	52	SE	1	C	G
83	INFLATOR-GAGE AND HOSE ASSEMBLY, PNEUMATIC TIRE	49	EA	2	C	K
84	JACK KIT, HYDRAULIC, HAND	51	KT	1	C	N/A
85	JACK, BOTTLE, HYDRAULIC, HAND, 12 TON	51	EA	2	C	N/A
86	KEY SET, HEX, INCH	51	SE	1	L	J
87	KEY SET, HEX, METRIC	51	SE	1	L	J
88	NOT USED					H
89	LIFT, TRANSMISSION AND DIFFERENTIAL	51	EA	1	C	N/A
90	LIGHT, BATTERY OPERATED, RECHARGEABLE	62	EA	2	C	H
91	LIGHT, EXTENSION, FLUORESCENT	62	EA	2	C	H
92	NOT USED					

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93	LUBRICATING GUN, HAND	49	EA	3	C	H
94	LUBRICATING GUN, BATTERY OPERATED, RECHARGEABLE	49	EA	1	C	H
95	MEASURE, LIQUID, 8 QUART	72	EA	1	C	N/A
96	MEASURE, LIQUID, 2 QUART	72	EA	1	C	N/A
97	MULTIMETER	66	EA	2	C	J
98	MULTIPLIER, TORQUE	51	EA	1	L	N/A
99	OILER, HAND	49	EA	2	C	H
100	PAN, DRAIN	72	EA	2	C	N/A
101	PLATE, BOLSTER, 24” x 24”	38	EA	1	N	N/A
102	PLATE, BOLSTER, 40” x 72”	38	EA	1	N	N/A
103	PLIERS, LOCK RING	51	EA	1	L	J
104	PLIERS, LOCK RING	51	EA	1	L	J
105	PLIERS SET, RETAINING RING	51	SE	2	L	J
106	PLIERS, BRAKE REPAIR, HEAVY	51	EA	1	L	H
107	PLIERS, BRAKE REPAIR, LIGHT	51	EA	1	L	H
108	PLIERS, WIRE TWISTER	51	EA	1	L	J
109	PNEUMATIC BAG KIT, LIFTING	42	KT	1	C	N/A
110	(NOT USED)		EA			
111	PULLER SET, MECHANICAL	51	SE	1	L	H
112	PULLER, MECHANICAL STEERING WHEEL	51	EA	1	C	H
113	PULLER, MECHANICAL, PITMAN ARM	51	EA	1	L	H
114	PUMP LUBRICANT	49	EA	1	L	N/A
115	PUNCH & CHISEL SET	51	SE	2	N	L
116	PUNCH SET, CUTTING, GASKET	51	SE	1	N	K
117	SANDER/GRINDER, 4 1/2"	51	EA	1	C	K
118	SAW, HAND, CROSSCUT	51	EA	1	C	L

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119	SAW, HAND, METAL CUTTING	51	EA	2	C	L
120	SAW, HAND, METAL CUTTING	51	EA	2	C	L
121	SCALE, WEIGHING	66	EA	1	C	L
122	SCRAPER, GASKET	51	EA	2	L	K
123	SCREWDRIVER ATTACHMENT SET, TORX	51	SE	1	L	J
124	SCREWDRIVER ATTACHMENT SET, INCH HEX	51	SE	1	L	J
125	SCREWDRIVER ATTACHMENT SET, METRIC HEX	51	SE	1	L	J
126	SCREWDRIVER SET, JEWELER'S	51	SE	1	L	H
127	SCREWDRIVER SET	51	SE	1	L	H
128	SCREWDRIVER SET, TORX	51	SE	1	L	J
129	SHARPENER, DRILL, PORTABLE	51	EA	1	C	K
130	SHEARS, BENT, TRIMMER	51	EA	1	C	K
131	SLING, ENGINE AND TRANSMISSION, 3 TON	39	EA	1	C	N/A
132	SLING, ENGINE AND TRANSMISSION, 2 TON	39	EA	2	C	N/A
133	SOCKET SET, SOCKET WRENCH, 3/8" DRIVE, METRIC, UNIVERSAL	51	SE	1	L	J
134	SOCKET SET, SOCKET WRENCH, 3/8" DRIVE, INCH, UNIVERSAL	51	SE	1	L	J
135	SOCKET SET, SOCKET WRENCH, ¾" DRIVE, INCH, REGULAR LENGTH	51	SE	1	L	J
136	SOCKET SET, IMPACT WRENCH, ½" DRIVE, METRIC, UNIVERSAL	51	SE	1	L	J

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137	SOCKET SET, IMPACT WRENCH, ½" DRIVE, INCH UNIVERSAL	51	SE	1	L	J
138	SOCKET SET, IMPACT WRENCH, ¾" DRIVE, INCH, REGULAR LENGTH	51	SE	1	N	J
139	SOCKET SET, MASTER, SOCKET WRENCH, ¼", 3/8" AND ½" DRIVE	51	SE	1	L	K
140	SOCKET SET, SOCKET WRENCH, WHEEL BEARING LOCKNUT	51	SE	1	L	J
141	SOCKET SET, IMPACT WRENCH, ¾" DRIVE, METRIC, REGULAR LENGTH	51	SE	1	N	J
142	SOLDERING GUN	34	EA	1	C	J
143	SPLITTING TOOL, NUT	51	EA	1	L	K
144	TAPE, MEASURING, 25'	52	EA	1	C	J
145	TEST KIT, RADIATOR PRESSURE	49	KT	1	C	H
146	TESTER, ANTIFREEZE SOLUTION	49	EA	2	C	H
147	TOOL KIT, BLIND FASTENER INSTALLATION	51	KT	1	C	J
148	TOOL KIT, CUTTING, ABRASIVE, PNEUMATIC	51	KT	1	C	K
149	TOOL KIT, LARGE HOSE END CRIMPING	51	KT	1	C	G
150	TOOL KIT, SMALL HOSE END CRIMPING	51	KT	1	C	G
151	TOOL KIT, SCREW INSERT	51	KT	1	N	J
152	TOOL KIT, TIRE SERVICE	49	KT	1	C	N/A
153	TRESTLE, HOIST, PORTABLE, 7 TON	51	PR	4	C	N/A
154	TRUCK, LIFT, WHEEL	51	EA	1	C	N/A

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155	VISE, MACHINIST'S, 4 INCH	51	EA	1	L	N/A
156	VISE, PIPE, CHAIN STYLE	51	EA	1	C	G
157	WHEEL, ABRASIVE, FINE GRIT	51	EA	2	N	N/A
158	WHEEL, ABRASIVE, COARSE GRIT	51	EA	2	N	N/A
159	WHEEL, ABRASIVE, TYPE 27	51	PG	1	N	K
160	WHEEL, ABRASIVE, TYPE 29	51	PG	1	N	K
161	WRENCH, IMPACT, ELECTRIC, ¾" SQUARE DRIVE, 400 FT-LB	51	EA	1	C	J
162	WRENCH SET, FLARE NUT, INCH	51	SE	1	L	L
163	WRENCH SET, BOX, INCH	51	SE	1	L	L
164	WRENCH SET, BOX, METRIC	51	SE	1	L	L
165	WRENCH SET, COMBINATION, INCH	51	SE	1	L	L
166	WRENCH SET, COMBINATION, METRIC	51	SE	2	L	L
167	WRENCH SET, OPEN END, METRIC	51	SE	1	L	L
168	WRENCH SET, OPEN END, INCH	51	SE	1	L	L
169	WRENCH SET, FLARE NUT, METRIC	51	SE	1	L	L
170	WRENCH SET, MASTER, IMPACT WRENCH, 3/8" AND ½" DRIVE	51	SE	2	C	J
171	WRENCH SET, IMPACT SOCKET, ¾" DRIVE, INCH, REGULAR LENGTH	51	SE	1	N	J
172	WRENCH, ADJUSTABLE, 18 INCH	51	EA	2	L	L
173	WRENCH, ADJUSTABLE, AUTOMOTIVE, 15 INCH	51	EA	2	L	L

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174	WRENCH, ADJUSTABLE, 10 INCH	51	EA	2	L	L
175	WRENCH, ADJUSTABLE, AUTOMOTIVE, 11 INCH	51	EA	2	L	L
176	WRENCH, OIL FILTER	51	EA	1	L	H
177	WRENCH, OIL FILTER, STRAP	51	EA	2	C	H
178	WRENCH, PIPE, 18 INCH	51	EA	2	L	L
179	WRENCH, PIPE, 10 INCH	51	EA	2	L	L
180	WRENCH KIT, RATCHET, PNEUMATIC, 3/8” DRIVE	51	KT	2	C	K
181	WRENCH, TORQUE, DIAL, ¼” DRIVE, 30 IN-LB	51	EA	1	C	K
182	WRENCH, TORQUE, DIAL, 3/8” DRIVE, 300 INLB	51	EA	2	C	K
183	WRENCH, TORQUE, CLICK, RATCHETING, ¾” DRIVE, 600 FT-LB	51	EA	1	C	N/A
184	WRENCH, TORQUE, CLICK, RATCHETING, 3/8” DRIVE, 75 FT-LB	51	EA	1	C	K
185	WRENCH, TORQUE, CLICK, 1/2” DRIVE, 345 Nm	51	EA	1	C	K
186	WRENCH, TORQUE, CLICK, RATCHETING, ½” DRIVE, 250 FT-LB	51	EA	1	C	K
187	WRENCH, WHEEL STUD NUT, GEARED SOCKET	51	EA	1	L	N/A
188	BAR, TORQUE WRENCH:	51	EA	1	L	N/A
189	DIE SET, METAL STAMPING, HAND, ALPHABETIC	51	SE	1	N	G
190	DIE SET, METAL STAMPING, HAND, ALPHABETIC AND NUMERIC	51	SE	1	N	G

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191	GAGE STOCK SET, THICKNESS	52	SE	1	N	G
192	MULTIPLIER, TORQUE, CRANK OPERATED	51	EA	1	L	N/A
193	PLATE, BOLSTER, 36” x 36”	38	EA	1	N	N/A
194	PLIERS, MULTIPLE POSITION	51	EA	1	L	G
195	PLIERS, MULTIPLE POSITION, ELECTRICAL CONNECTOR	51	EA	1	L	G
196	PULLER KIT, UNIVERSAL	51	KT	1	L	G
197	NOT USED					
198	WRENCH, SET, SOCKET WRENCH, 1” DRIVE, INCH, REGULAR	51	SE	1	L	G
199	WRENCH, PIPE, 36”	51	EA	2	L	N/A
200	JACK, BOTTLE, HYDRAULIC, HAND, 30TON	51	EA	1	C	N/A
201	Blow Gun, Extended, Air	49	EA	1	C	N/A
202	Crowfoot Attachment, ½ inch drive, 20 MM	51	EA	1	L	N/A
203	Crowfoot Attachment, ½ inch drive, 21 MM	51	EA	1	L	N/A
204	Crowfoot Attachment, ½ inch drive, 22 MM	51	EA	1	L	N/A
205	Crowfoot Attachment, ½ inch drive, 23 MM	51	EA	1	L	N/A
206	Crowfoot Attachment, ½ inch drive, 24 MM	51	EA	1	L	N/A
207	Crowfoot Attachment, ½ inch drive, 25 MM	51	EA	1	L	N/A
208	Crowfoot Attachment, ½ inch drive, 15/16”	51	EA	1	L	N/A
209	Crowfoot Attachment, ½ inch drive, 1”	51	EA	1	L	N/A
210	Crowfoot Attachment, ½ inch drive, 1-1/16”	51	EA	1	L	N/A
211	Crowfoot Attachment, ½ inch drive, 1-1/8”	51	EA	1	L	N/A
212	Crowfoot Attachment, ½ inch drive, 1-3/16”	51	EA	1	L	N/A
213	Crowfoot Attachment, ½ inch drive, 1-1/4”	51	EA	1	L	N/A
214	Crowfoot Attachment, ½ inch drive, 1-5/16”	51	EA	1	L	N/A

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215	Crowfoot Attachment, ½ inch drive, 1-3/8”	51	EA	1	L	N/A
216	Crowfoot Attachment, ½ inch drive, 1-7/16”	51	EA	1	L	N/A
217	Crowfoot Attachment, ½ inch drive, 1-1/2”	51	EA	1	L	N/A
218	Crowfoot Attachment, ½ inch drive, 1-9/16”	51	EA	1	L	N/A
219	Crowfoot Attachment, ½ inch drive, 1-5/8”	51	EA	1	L	N/A
220	Crowfoot Attachment, ½ inch drive, 1-11/16”	51	EA	1	L	N/A
221	Crowfoot Attachment, ½ inch drive, 1-3/4”	51	EA	1	L	N/A
222	Crowfoot Attachment, ½ inch drive, 1-13/16”	51	EA	1	L	N/A
223	Crowfoot Attachment, ½ inch drive, 1-7/8”	51	EA	1	L	N/A
224	Crowfoot Attachment, ½ inch drive, 2”	51	EA	1	L	N/A
225	Crowfoot Attachment, ½ inch drive, 2-1/8”	51	EA	1	L	N/A
226	Crowfoot Attachment, ½ inch drive, 2-1/4”	51	EA	1	L	N/A
227	Crowfoot Attachment, ½ inch drive, 2-3/8”	51	EA	1	L	N/A
228	Crowfoot Attachment, ½ inch drive, 2-7/16”	51	EA	1	L	N/A
229	Crowfoot Attachment, ½ inch drive, 2-1/2”	51	EA	1	L	N/A

WTY (Warranty) Column definitions:

L = Lifetime Warranty
C = Commercial Warranty Available
N = No Warranty required

FSG 51 and 52 require Berry Amendment compliance unless they fall under a Domestic NonAvailability Determination (DNAD)

Storage Media Location

G = Storage Media labeled “G”
H = Storage Media labeled “H”
J = Storage Media labeled “J”
K = Storage Media labeled “K”
L = Storage Media labeled “L”

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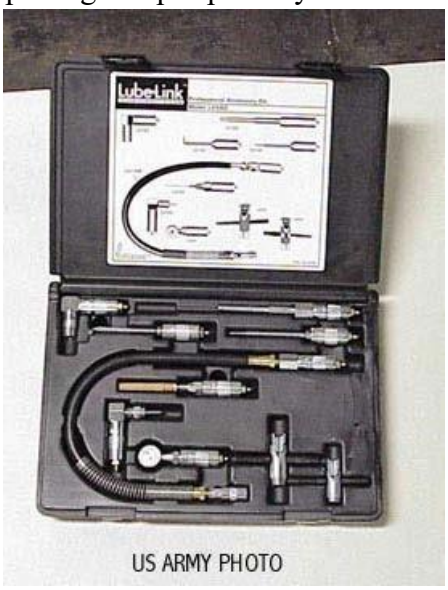
N/A=Not required to be put in a storage media. Group efficiently, commercial package and ship with storage media that is packaged with identified tools.

"*" Crowfoot attachments 202 through 209 do not have a designated storage media. Contractor has option to design for space within existing storage media or package/ship separately.

A1. Adapter Kit, Grease Gun Coupling. Shall fit manual or air-operated grease guns. Shall attach to any standard grease coupler for immediate service.
Includes: 18" Steel Braid Rubber Grease Hose w/ Spring Guard and 4-Jaw Coupler, Hypodermic Needle Coupler for Lubricating Sealed Bearings, Straight Needlepoint Coupler, 90 Degree 3" Needlepoint Coupler, 9" Rigid Extension w/ 4-Jaw Coupler, Needlepoint Coupler, Right Angle, Right Angle Coupler, Standard Button-Head Coupler, ¼"-28 Zerk Fitting Extractor, 1/8" NPT Zerk Fitting Extractor, Carrying Case
Use On: Manual or air operated grease gun



A2. Adjusting Tool, Brake Shoe. The brake adjusting tool shall be a steel bar with flat, angled blade ends for insertion through slots in brake backing plates in order to turn the star nut used to adjust brake shoe position.
Material: Steel
Features: Flat, angled blade Length:
6.5 inches minimum Picture not
available.

A3. Analyzer, Digital Battery. Hand-held analyzer shall be a conductance tester capable of testing condition and state of charge of all types of 12-volt lead-acid automotive batteries, including, standard, low maintenance, maintenance-free, gel, and Absorbed Glass Mat (AGM). Insulated leads and terminal clips shall be provided.
Dimensions: Approximately 7.7 inches long x 4.5 inches wide x 2.0 inches high
Weight: Approximately 1.70 lbs; 3.05 lbs Including Carrying Case and Extra Printer Paper
Battery Cable Length: 3.4 feet minimum
Printer Type: Thermal
Printer Paper: 1.3 inches wide x 0.3 inches long, Tests 12V Lead-Acid Flooded Cell, AGM Flat Plate
Rating System: CCA (Cold Cranking Amps)
Operation Range: 40 to 2000 CCA (SAE)
Minimum Battery Voltage for Analysis: 1.5V
Voltmeter Range: 1.5V to 30V
Internal Batteries: 4 Each 1.5V AA Batteries
Features: AGM Spiral, and Gel Cell Batteries; 12V Electrical System Test; Displays Battery Voltage and Battery Capacity in CCA; Tests Discharged Batteries Down to 1.5V, Operating From an Internal Battery

DISTRIBUTION STATEMENT A: Approved for public release, distribution is unlimited.

Built-In Printer; Date/Time Function; Selectable Display Languages: English, French, and Spanish
Drawer H1

Picture not available.

A4. Apron, Utility. Shall be an impermeable utility apron made of chloroprene rubber-coated polyester fabric. Shall be a full-length bibtype apron nominally.
Overall Length: 48 inches nominal
Overall Width: 34 inches nominal
Material: Chloroprene Rubber-Coated Polyester Fabric
Type: Full Length Bib
Color: Black
Closure: Tie-Tape Back
Features: Impermeable

A5. Bar, Pinch, 26". The pinch bar shall have one end offset and formed into a pinch point with a width of 1". The other end shall be rounded and tapered for bringing holes in metal plates into alignment for assembly. The bar shall have a nominal 26" length and ¾" diameter, and shall be coated to resist corrosion (e.g. oil-coated, lacquered or painted).

ASME (B107.410) B107.52 Type III, Class 4
Overall Length: 23 inches minimum
Stock diameter: 3/4 inch nominal
Overall Weight: 3 pounds
Material: High Carbon Steel
Coating: Corrosion resistant
Features: Offset end with pinch point and rounded, tapered end

A6. Bar, Pinch, 36". The pinch bar shall have one end offset and formed into a pinch point with a width of 1-1/4". The other end shall be rounded and tapered for bringing holes in metal plates into alignment for assembly. The bar shall have a nominal 36" length and 1" diameter, and shall be coated to resist corrosion (e.g. oil-coated, lacquered or painted).

ASME (B107.410) B107.52 Type III, Class 4

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Overall Length: 35 inches minimum
Stock diameter: 1 inch nominal
Overall Weight: 8 pounds
Material: High Carbon Steel
Coating: Corrosion resistant
Features: Offset end with pinch point and rounded, tapered end

A7. Bar, Wrecking. The bar shall have one end bent in the form of a gooseneck and the opposite end in the form of a pinch point. The gooseneck provided shall have a slotted claw suitable for pulling nails. The pinch point shall be offset and wedge shaped. The bar shall have a nominal 30" length overall, a ¾" diameter, and shall be coated to resist corrosion (e.g. oil-coated, lacquered or painted). (Reference CID A-A-2566, Type I, Size 4)

CID A-A-2566, Type I, Size 4
Overall Length: 29 inches minimum
Stock diameter: 3/4 inch nominal
Material: High Carbon Steel
Coating: Corrosion resistant
Features: Gooseneck Bent End and Pinch Point End Offset with Wedge Shape; Slotted Claw Foot

A8. Battery Filler, Gravity. The battery filler shall have a capacity of at least 2 quarts and shall shut off flow automatically when battery cells are filled to their proper level. Shall have an integral handle and a drip free design.

Capacity: 2 Quarts minimum
Shut Off: Automatic
Handle: Integral
Material: Polyethylene
Features: Drip Free Design

A9. Battery Filler, Syringe. The bulb-type syringe shall have a fluid capacity of at least 6 ounces and a flexible tube at least 6" long.

Bulb Material: Rubber
Capacity: 6 Ounces minimum
Outlet type: Flexible spout
Spout Length: 6 Inches minimum

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A10. Battery Kit, Service. Shall consist of:

QTY 1
Pliers, Adjustable, Angle Nose
Overall Length: 7 inches nominal
Handle Span: 1.89 inches nominal
Positions: two (2)
Capacity: 0.63 inch
Material: High Carbon Steel
Coating: Chrome
Features: Rubber coated handle
Drawer H1

QTY: 1
Plier Battery Terminal Spreader
Overall Length: 7 ½ inches nominal
Overall Weight: 0.55 pounds nominal
Features: Comfort grips
Drawer H1

QTY: 1
Case, Carrying (Battery Kit, Service)
Material: Lightweight copolymer resin
Length: 12 1/8 inches nominal
Width: 7 ¼ inches nominal
Height: 4 ½ inches nominal
Handle: Recessed in lid
Finish: Textured
Features: Brass hinge and latch pins, non-conductive, dent-proof, rust-proof and scratch resistant Drawer H1

QTY: 1
Cleaner, Terminal, Post
Case Material: High Impact Plastic
Includes: Internal and External Brush
Drawer H1

QTY: 1
Side Terminal Cleaner
Overall Length: 5 ½ inches nominal
Includes: Coil Spring Cutters, Stainless Steel Brushes, and handle

QTY1
Wiper Arm/Battery Term Puller
Dimensions: Approximately 7 inches by 5-1/2 inches by 1-1/2 inches

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Type: Dual Purpose
Features: Knurled cone to tighten, center screw to lift

A11. Bender Set, Tube, Hand Actuated. External coil spring, hand-actuated type, consisting of the following items:
Material: Hardened, Tempered Steel
Finish: Zinc Plated
Features: External Coil Spring, Hand Actuated Type, capable of bends up to 180 degrees
Includes: ¼ inch, 5/16 inch, 3/8 inch, ½ inch, and 5/8 inch tube benders

A12. Blade, Hand Hacksaw. The blades shall be bimetal, 12" long, .025" thickness, 24 teeth per inch and shall have 10 blades per bundle. (For use with Items 119 and 120)
ASME B94.52M
Material: Bimetal
Length: 12 inches
Thickness: 0.025 inches
Teeth per inch: 24
Quantity: 10 piece bundle

A13. Blade, Abrasive, Cut-Off. The abrasive blade shall have an overall diameter of 3", a width of 1/16", and a 3/8" diameter arbor hole. (For use with item A148)
Type: Straight used for traditional cut-off applications
Diameter: 3 Inch
Thickness: 1/16 Inch
Arbor Size: 3/8 Inch
Bond Type: Resin
Maximum Speed: 25,000 rpm minimum
Grit Size: 46
Abrasive Material: Zirconia Alumina/Aluminum Oxide

A14. Blow Gun, Air. The gun shall be the "lever-over" style, capable of providing automatic reduction of the air in the nozzle to a pressure less than 30 psig when supplied with an upstream air pressure up to 150 psig. The control valve shall permit the delivery of air in short blasts or in a continuous flow at the option of the operator. The nozzle shall be detachable. The gun shall seal completely against airflow at all pressures up to 120 psig. For protection of the operator from chip fly-back, the gun shall have a nozzle capable of providing an air-cone barrier around the main stream. The gun shall comply with

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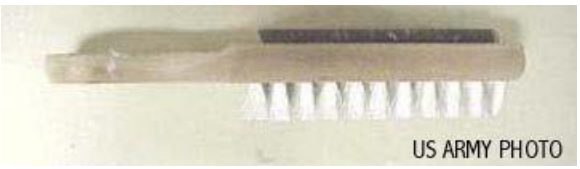
OSHA Program Directive 100-1 (29CFR Part 1910.24 and OSHA Instruction STD 1-13.1). The gun inlet shall be provided with ¼-18 NPT female threads. A male 3/8" ID quick disconnect fitting shall be installed on each gun
OSHA Program Directive 100-1
Body Material: Durable cast aluminum
Trigger Material: Steel
Nozzle Material: Aluminum venturi with safety air shield
Inlet: ¼ inch FNPT
Features: Air delivery in short blast or continuous flow, detachable nozzle

A15. Box, Tote. The tote box shall approximately be 18.25" long, 5.5" high, and 11" wide. The box configuration shall permit it to be nested and stacked with like boxes.
Length: 18 inches nominal
Width: 11 inches nominal
Height: 6 inches nominal
Color: Gray
Features: Able to nest and stack

A16. Brazing And Soldering Set. This propane gas torch set shall be suitable for brazing, soldering, and heating and conform to Underwriters Laboratories standard UL 147. The torch shall use fuel cylinders of a standard size containing 14 ounces of propane gas and having threads conforming to connection 600 of Compressed Gas Association (CGA) Standard V1. The set shall contain the contents specified below.

Includes: Burner Unit, Pencil Burner Head, Utility Burner Head, Soldering Head, Flame Spreader, Flint Lighter, Carrying Case

A17. Brush, File Cleaner. Shall consist of a handle of wood or other suitable material with a fine steel wire card on one side, and a stiff bristle fiber brush on the other side. Brush shall be approximately 9" overall length, bristle area shall be approximately 4.5" long X 1.5" wide.



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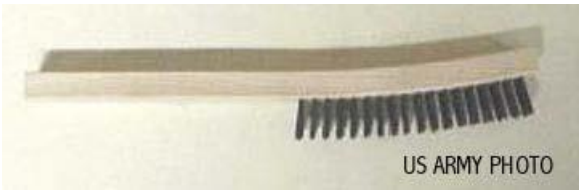
Overall Length: 9 inches nominal
Bristle Area: 4 ½ inches long by 1 ½ inches wide nominal
Handle: Wood or other suitable material
Features: Fine steel wire card on one side, stiff bristle fiber brush on other side

A18. Brush, Wire, Rotary, End Attachment, Solid Wire Filled. Shall be a solid filled brush with crimped wire extending parallel to a ¼" arbor shaft, filled to the center of the brush. The brush body shall have a 1" outside diameter. The brush shall be rated for a maximum speed of 8000 RPM. The wire shall be high carbon tempered steel, 0.0204" diameter, with a trim length of 0.75-1.125". The brush shall conform to ANSI standard B165.1.

A19. Brush, Wire, Rotary End Attachment, Circular, Side Flair. Shall be a side flare brush with crimped wire extending 90degrees from a ¼" arbor shaft. The brush shall have a 1.5" outside diameter. The brush shall be rated for a minimum speed of 8000 RPM. The wire shall be crimped high carbon tempered steel. The brush shall conform to ANSI standard B165.1.
Wire Material: Carbon Steel
Diameter: 1 ½ inches
Wire Size: 0.0118 inches-0.0204"
Stem Diameter: ¼ inch
Maximum Speed desired: 20,000 rpm minimum

A20. Brush, Wire, Scratch. Shall be a curvedhandle brush with bristles of 0.014" diameter carbon steel wire and are arranged in 4 X 18 rows. The exposed length of the bristles shall be approximately 1.125 to 1.250". The handle shall be wooden or molded plastic with an overall length of approximately 14 inches. The bristle area shall be 5.5 – 6.5" in length.



Handle Type: Curved, wooden or molded plastic
Overall Length: 14 inches nominal
Bristle Type: Carbon Steel Wire
Bristle Length: 1 1/8 inches minimum, 1 ¼ inches maximum
Bristle Area: 5 ½ inches minimum length, 6 ½ inches maximum length
Bristle arrangement: 4 by 18 rows

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A21. Cable Assembly, Power. Shall be a threeconductor, 12 AWG extension cord for 120 VAC with insulation rated for 600 volts maximum. The cable jacket shall be oil, abrasion resistant, and the cable shall remain flexible at –25 degrees F. The cable assembly shall be 50' long with a NEMA 5-15P terminal on one end and a NEMA 5-15R terminal on the other end. Terminals shall be molded on the cable.

Length: 50 feet
Cable Jacket: oil and abrasion resistant
Terminals: NEMA 5-15P one end, NEMA 5-15R other end, mold to cable
Insulation rating: 600 volts
Features: 3 conductors, 12 AWG, 120 VAC, flexible at -25 degrees F

A22. Cable Assembly, Booster. Shall be automotive battery booster cables conforming to SAE J1494. Shall be Super Heavy-Duty (rated for 750 A, minimum), and at least 25' long.

SAE J1494
Length: 25 feet minimum
Amp Rating: 750 minimum
Gauge: 2/0
Clamp style: Parrot

A23. Cable Kit, Special Power (NATO SLAVE CABLE). The kit shall contain a slave-start (jumper) cable for military vehicles with connectors conforming to a NATO standard. Length is no less than 5 feet.

A24. Caliper, Micrometer, Inside. Shall be an inside micrometer caliper of the rod and sleeve type, consisting of a micrometer head, measuring rods, locking screw(s) and spacing collars. These items in the appropriate combination shall be capable of measuring all inside

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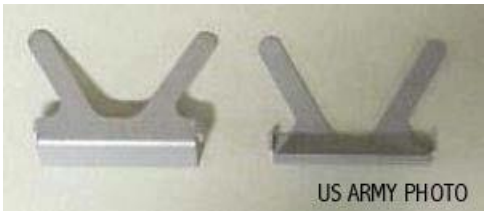
distances from approximately 1.5” to 12.5” to the nearest thousandth of an inch.
Storage case shall be provided.
Type: Mechanical Inside Micrometer
Capacity: 1.5 to 12.5 inches minimum
Graduation: 0.001 inches
Digital Counter: No
Thimble Type: Friction
Finish: Chrome
Includes: Storage Case

A25. Caliper, Vernier. Shall be a vernier style caliper capable of measuring inside distance, outside distance, and depth from 0 to 6” and from 0 to 150mm to the nearest thousandth of an inch, with the inch scale on the front and the metric scale on the back. The jaws for measuring outside dimensions shall have a throat depth of at least 1.25 inches. The slide shall be furnished with a thumb lock. Storage case shall be provided.
Capacity: 6 inches/150 mm minimum
Graduation: 0.001 inch/0.02 mm
Throat Depth: 1.25 inches minimum
Material: Steel
Finish: Chrome
Features: Thumb lock
Includes: Storage Case

A26. Can, Radiator Filling. Shall be Plastic with a 12 qt. capacity. Shall have an integral spout and handle.
Material: Polyethylene
Capacity: 12 quarts
Features: Impervious to oil, gasoline and antifreeze; Integral spout and handle

A27. Caps, Vise Jaw. Shall be for use in a 4” machinist’s vise to protect hardware finish. The caps shall be copper, brass, or aluminum 1/8” thick. The vise jaw facing shall be at least 1”. (See Item 155)
Material: Copper, Brass or aluminum
Jaw Width: 4 inches
Jaw Facing: 1 inch minimum
Jaw Thickness: 1/8 inch



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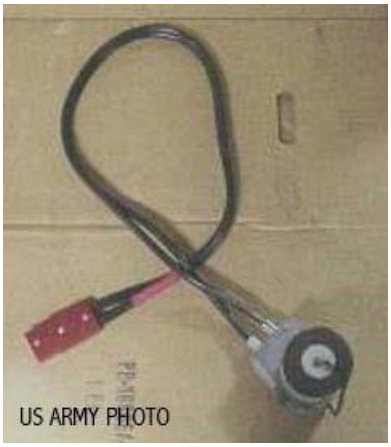
A28. Charger, Battery. Shall be a 12 Volt and 24-Volt automatic charger for both flooded and sealed automotive batteries. The charger shall provide deep discharge recovery and bad battery detection. Shall be capable of operating on both 120 and 240 VAC, 50 or 60 HZ, singlephase current. Output 40 Amps at 24 VDC. Provides protection from both reverse polarity and sparking. Shall be rated for all-weather outdoor use. Shall have a NATO slave receptacle adapter as well as standard battery terminal clamps.



Input Voltage: 100 – 250 VAC
Input Current: 10 Amps
Input Frequency: 50 – 60 Hz
Minimum Battery Voltage for Charger Startup: 2.0 V
Output Current: 0 – 40 A
Charge capability: 12 V and 24 V batteries
Desulfating Pulse Peak Amplitude: 250 mA Typical
Desulfating Pulse Frequency: 22kHz to 28kHz
Pulse Rise Time: < 1 microsecond
Enclosure Dimensions: Approximately 16.5 x 28.5 x 12 inches
Weight: Approximately 96 lbs nominal
Enclosure material: Powder coated 14 gauge cold rolled steel
Battery Clamps Cable Length: 10 feet minimum
NATO Connector Cable Length: 10 feet minimum
Mounting: Mobile Unit
Operating Temperature: 0º F to 130 º F (-18º C to 54º C) minimum
Storage Temperature: 0º F to 150 º F (-18 º C to 66 º C) minimum
Indicator Lights: 12 V charge, 24 V charge, power on, charge complete
Features: automatically switches between 12 volt and 24 volt batteries, prevents over charging, wheels and a handle for mobility

A29. Clamp, C, 6" (Medium Service). Shall have 2.25" throat depth, a 5.75" minimum jaw opening with the screw fully retracted and an opening of not more than 2.625" when closed. The clamp shall be certified to a proof load of 11,250 lbs. The screw shall be at least 0.75" in diameter and have a swivel pad and a sliding cross pin handle at least 0.375" in diameter and 4" long.

Material: Steel

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Throat Depth: 2 ¼ inches nominal
Capacity: no more than 2.625 inches to no less than 5.75 inches
Proof Load: 11,250 pounds minimum
Screw Diameter: ¾ inches
Screw Features: Swivel pad and sliding cross pin handle
Screw Handle: 3/8 inch diameter
Screw Handle Length: 4 inches long

A30. [NOT USED]

A31. Compressor Unit, Reciprocating. Shall be a portable compressor with a storage tank with outlet pressure regulator. The compressor shall have a 208-volt 3-phase AC electric motor. Compressor shall be able to operate all SATS pneumatic tools and equipment at their designed level of capability and performance. Compressor shall have wheels and handle for ease of movement. A 3/8" ID "T" pipe fitting and two female 3/8" ID quick-disconnect fittings shall be installed on each compressor. One branch of the "T" shall also incorporate a mist lubricator.
Type: Portable, Reciprocating, electric
Motor: Electric, 208 V 3-phase, 5HP
Capacity: 30 gallon, 175 PSI
Fittings: 3/8 inch "T" pipe, 2 female 3/8 inch quick disconnect
Features: Tank-mounted Outlet Pressure Regulator, Wheels and Handle, Mist Lubricator

(Picture not available.)

A32. Creeper, Mechanic's. Shall be approximately 47" long and 25.5" wide. Shall have large wheels to roll over grates, cracks in pavement and rocky, loose soil. The creeper shall have a low profile design to allow for maximum workspace clearance.
Overall Length: 47 inches nominal
Overall Width: 25 ½ inch nominal
Capacity: 300 lbs minimum
Features: Large Wheels, Low Profile Design

A33. Crimping Tool, Terminal. Crimping tool shall be a manual compression type for insulated and noninsulated solder-less terminals on wire sizes from 22 through 10 AWG. Shall be able to cut and strip 22 through 10 AWG wires. Shall have integral dies for trimming six sizes of threaded fasteners: 4-40, 6-32, 832, 10-24, and 10-32. Shall have an insulated handle.
Type: Manual Compression, serrated
Handle: Insulated
Features: Wire cutter
Uses: Wire sizes from 22 through 10 AWG; Threaded fasteners 4-40, 6-32, 8-32, 10-24, 10-32

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A34. Crowbar. Shall be 59-62” long and approximately 1 ¼” wide. Shall have a round handle tapering slightly toward handle end. Shall have a pinch-point style work end with square sides and a flat, single-beveled edge. The work end shall be equal in width to the distance across the flat surfaces of the bar.

Material: High Carbon Steel
Overall Length: 60 inch nominal
Overall Width: 1 ¼ inches
Diameter: 1 ¼ inches
Features: Press forged bar ends, roll forged tapered handle

A35. Crowfoot Attachment Set, Socket Wrench, Flare Nut, Inch. Shall have 3/8” female square drive and include the following sizes: 3/8”, 7/16”, ½” 9/16”, 5/8”, 11/16”, ¾” and 13/16”.

ASME B107.21
Type: Flare Nut
Drive Size: 3/8 inch
Finish: Chrome
Unit of Measure: SAE
Point Size: 6
Drive Type: Female square drive
Included Sizes: 3/8, 7/16, 1/2, 9/16, 5/8, 11/16, ¾ and 13/16 inches

A36. Crowfoot Attachment Set, Socket Wrench, Flare Nut, Metric. Shall have 3/8” female square drive, and include the following sizes: 9mm, 10mm, 11mm, 12mm, 13mm, 14mm, 15mm, 16mm, 17mm, and 18mm.

ASME B107.21
Type: Flare Nut
Drive Size: 3/8 inch
Finish: Chrome
Unit of Measure: Metric
Point Size: 6
Drive Type: Female square drive

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Included Sizes: 9mm, 10mm, 11mm, 12mm, 13mm, 14mm, 15mm, 16mm, 17mm, and 18mm A37. Cutting and Flaring Kit, Tube. Shall be able to cut, bend and flare copper, brass, and aluminum tubing. The kit shall contain a tube cutter with a cutting range of 1/8 to 1-1/8". The kit shall include a deburring tool. The kit shall provide tools for forming single flares on 1/8", 3/16", ¼", 5/16", 3/8", 7/16", ½", 5/8", and ¾" tubing, and double flaring on 3/16, ¼, 5/16, 3/8 and ½" tubing. This kit shall include swaging adapters for: 3/16", ¼", 3/8", ½", 5/8", and ¾" tubing. Carrying case shall be provided.

Flaring and Swaging Kit
Function: Cut, bend and flare copper, brass and aluminum tubing
Includes: Tube cutter, deburring tool, single flare tools, double flare tools, swaging adapters, carrying case
Tube cutter range: 1/8 inch to 1 1/8 inches
Single flare tool sizes: 1/8, 3/16, 1/4, 5/16, 3/8, 7/16, 1/2, 5/8 and 3/4 inches
Double flare tools: 3/16, 1/4, 5/16, 3/8 and 1/2 inches
Swaging adapters: 3/16, 1/4, 3/8, 1/2, 5/8 and 3/4 inches

A38. Cutter, Bolt, Lightweight, 24". Shall have insulated handles. The cutting heads shall be replaceable. Length: 24 inches
Capacity: 3/8 inch minimum
Handles: Insulated
Heads: replaceable

A39. Cutter, Bolt, Replacement Head. Shall fit item A38.

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A40. Degreaser, Portable. Shall be a portable table-top degreasing system including a tank at least 23" long by 17" wide by 6" deep. The system shall operate on 115 Volt 60 Hz current, and shall provide a recycling filtration system (0.1 micron) for recovery and re-use of the solvent. The system shall be provided with a cover equipped with a fusible link for emergency closure. Reusable air-transportable container for solvent shall be provided. Includes: Table-top degreasing system with an inside and outside tub, Cover with fusible link, reusable air-transportable UN1A1 solvent barrel with handle

Outside tub dimensions: 23 inches L x 17 inches W x 6 inches D minimum
Inside tub dimensions: 21 inches L x 15 inches W x 6 inches D nominal
Power: 115 Volt 60 Hz current
Function: Recycling Filtration System for recovery and re-use of solvent

A41. Die And Tap Set, Rethreading. Shall be designed for removing nicks and burrs from damaged standard and metric threads. The set shall contain the following items: Includes one each of the following:

Rethreading Dies: National Coarse, Inch: ¼-20, 5/16-18, 3/8-16, 7/16-14, ½-13, 9/1612, and 5/8-11

National Fine, Inch: ¼-28, 5/16-24, 3/8-24, 7/16-20, ½-20, 9/16-18, and 5/8-18

Metric: 6-1.00, 8-1.25, 10-1.00, 10-1.25, 10-1.50, 11-1.50, 12-1.25, 12-1.50, 12-1.75, and 14-1.50

Rethreading Taps:

National Coarse, Inch: ¼-20, 5/16-18, 3/8-16, 7/16-14, ½-13, and 9/16-12

National Fine, Inch: ¼-28, 5/16-24, 3/824, 7/16-20, ½-20, and 9/16-18

Metric: 6-1.00, 8-1.25, 10-1.00, 10-1.25, 10-1.50, 11-1.50, 12-1.25, 12-1.50, 12-1.75, and 14-1.50

Rethreading Files: US thread pitch 11 to 24 TPI, Metric thread pitch 75mm to 3.0mm

Storage Case

A42. Die and Tap Set, Thread. The set shall have 34 fractional #4 to ½" and 1/8"-27 NPT. It shall have 34 pieces from 3 mm to 12 mm and 1/8-28 BSP. It shall have 36 HSS drill bits and 5 extractors. Carrying case shall be included.
Includes one each of the following:

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Machine Screw Hand Tap and Die (1 Pair EA): 4-40 NC, 6-32 NC, 8-32 NC, 10-24 NC, 10-32 NF, 12-24 NC

Fractional-size Hand Tap and Die (1 Pair EA): ¼ -20 NC, ¼ -28 NF, 5/16- 18 NC, 5/16-24 NF, 3/8-16 NC, 3/8-24 NF, 7/16-14 NC, 7/16-20 NF, ½-13 NC, ½-20 NF

Inch Straight Pipe Hand Tap and Die (1 Pair): 1/8-27 NPT

Metric Machine Thread Hand Tap and Die (1 Pair EA): 3mm -0.5, 4mm-0.7, 4mm-0.75, 5mm-0.8, 5mm-0.9, 6mm-1

Metric Hand Taps and Dies (1 Pair EA): 7mm-1.0, 8mm-1.0, 8mm-1.25, 9mm-1.0, 9MM-1.25, 10mm-1.5, 11mm-1.5, 12mm-1.5, and 12mm-1.75 Metric

Straight Pipe Hand Tap and Die (1 Pair): 1/8-28 BSP

Spiral Flute Screw Extractors – (1 EA by Drill Bit Size): 5/64", 7/64", 5/32", ¼", and 19/64"

Drive Tools (1 EA): Plain die stock for 5/8" hex dies, Adjustable die stock, Adjustable handle tap wrench, T-handle wrench, #0 to ¼" Taps, and T-handle wrench, ¼" to ½" Taps HSS Drill Bits (1 EA by Size & Style):

Wire Gage#: 3, 7, 9, 16, 19, 20, 21, 25, 29, 30, 36, 39, and 43 Letter: B, J, H, O, S, R, Z, I, Q, and U

Inch: 5/16, 3/8, 13/32, 21/64, 25/64, 27/64, 29/64, 5/64, 7/64, 5/32, ¼ and 19/64Accessories (1 EA): Pitch gauge, metric; Pitch gauge, SAE; Screwdriver; Carrying Case

A43. Dresser, Abrasive Wheel. Dresser shall be provided with replaceable cutters, and protective hood.

Overall Length: 11 ½ inches nominal
Grinding Wheel Diameter: 10 inch maximum
Grinder Wheel Face: 2 inches
Dressing Face: ½ inch
Includes: Replacement cutters; protective hood

A44. Drill-Driver, Battery Operated, Rechargeable. Shall be an 18 volt minimum,

Maximum Power: 450 UWO
Number of Speeds: 3
Chuck Size: ½ inch
Chuck Type: Metal, ratcheting; multi-position; keyless
Torque: 400 inch pounds at low speed; 120 inch pounds at high speed
Power Source: Battery 2 amp-hour
Features: Trigger-controlled variable speed; dual speed range (No-Load RPM Low: 0 to at least 400 rpm, High: 0 to at least 1000 rpm); trigger lock; forward and reverse operation Includes: Battery, battery charger, storage case

A45. Drill, Driver, Electric, ½". .

Type: D handle drill
Voltage: 120 Volt 60 Hz
Chuck Size: ½ inch
Chuck Type: Keyed

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Power Source: Corded-electric
Motor: Single phase variable speeds from 0-500 RPM Includes:
Handle

A46. Drill, Battery Operated, Rechargeable, Right Angle, 3/8".
Type: Right Angle
Voltage: 18V
Maximum Power: 360 UWO
Number of Speeds: 2
Chuck Size: 3/8 inch
Chuck Type: Plastic, ratcheting; keyless
Torque: 300 inch pounds at low speed; 60 inch pounds at high speed
Power Source: Battery 2 amp-hour
Features: Trigger-controlled variable speed; dual speed range (No-Load RPM Low: 0 to at least 400 rpm, High: 0 to at least 1000 rpm); trigger lock; forward and reverse operation Includes: Battery, battery charger, storage case

A47. Drill, Electric, Portable, 3/8".
Handle Type: Pistol Grip
Drill Head Dimensions: 4 inches maximum front to back and 2 ½ inch maximum diameter Voltage: 120V 60Hz
Speed: 0-1300 RPM
Chuck Size: 3/8 inch
Chuck Type: Keyed
Features: Double insulated; designed for close quarters

A48. Drill, Electric, Portable, ½".
Handle Type: D-Handle
Voltage: 120V 60Hz
Drive: Right Angle
Chuck Size: ½ inch
Chuck Type: Keyed
Features: Designed for right angle drilling

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A49. Drill, Pneumatic, Right Angle, 3/8".

Type: Right Angle, Pneumatic
Motor: 1/2 HP
Free Speed: 1200 RPM
Chuck Size: 3/8 inch
Chuck Type: Keyed
Features: Rear exhaust; forward and reverse Includes: 3/8 inch quick disconnect fitting

A50. Drill Set, Twist.

Material: Cobalt Steel
Features: 135 degree split point and straight round shank
Use on: stainless steels, heat-treated, steels, forgings, chilled cast iron, and other applications involving extreme hardness or abrasive materials
Quantity: 29
Includes: Carrying Case with an index
Sizes: 1/16, 5/64, 3/32, 7/64, 1/8, 9/64, 5/32, 11/64, 3/16, 13/64, 7/32, 15/64, 1/4, 17/64, 9/32, 19/64, 5/16, 21/64, 11/32, 23/64, 3/8, 25/64, 13/32, 27/64, 7/16, 29/64, 15/32, 31/64, and 1/2 inch

A51. Drill Set, Twist, Left Hand
Material: Cobalt Steel
Twist: Left Hand
Features: 135 degree split point and straight round shank
Use on: stainless steels, heat-treated, steels, forgings, chilled cast iron, and other applications involving extreme hardness or abrasive materials
Quantity: 16
Includes: Carrying Case with an index
Sizes: 5/64, 7/64, 1/8, 5/32, 3/16, 7/32, ¼, 9/32, 19/64, 5/16, 11/32, 3/8, 13/32, 7/16, 15/32, and ½ inch

A52. [NOT USED]

A53. Extractor Set, Screw.

Material: High Speed Steel
Features: 135 degree, Modified Split Point, Left Hand
Drill Bit Sizes: 1/8, 3/16, ¼, 5/16, 3/8, 7/16, and ½ inch
Fluted Extractors Point Diameters: 1/8, 11/64, 7/32, 9/32, 21/64, and 7/16 inch
Includes: Carrying Case

DISTRIBUTION STATEMENT A: Approved for public release, distribution is unlimited.

A54. Extractor Set, Hardened Screw.
Material: High Speed Steel
Tip: Self centering
Use On: High-strength fasteners Grades 2-5 and Class 5.6-10.9; Stainless Steel Bolts; FART
Fasteners 1/8”-1/2”; Metric Fasteners M3-M12
Sizes: No 5-6, No 8, No 10-12, ¼ inch, 5/16 inch, 3/8 inch, ½ inch
Includes: Carrying Case

A55. Face shield, Industrial.
ANSI Z87.1
Material: Polycarbonate
Color: Clear
Length: 8 inches
Width: 11 ½ inches
Thickness: 0.040 inches
Headgear Type: Adjustable, positive lock, tilting visor support
Features: Replaceable visor

A56. File Set, Hand. Shall consist of four files, two 12” long half-round American pattern bastard cut files, and two 12” long ½” diameter round American pattern bastard cut files. Each file shall have a plastic, permanently affixed, ergonomic handle or a single handle shall be provided that can be pushed on and used on each file as needed.

Hand File, Round-QTY-2
Overall Length: 12 inches nominal
Largest diameter: 1/2 inch - 1/32 inch
Shape: Round with tapered point
Material: Steel
Features: American Pattern, Bastard Cut, Single Cut

Hand File, Half Round-QTY-2
Overall Length: 12 inches nominal
Largest diameter: 1-1/8 inch - 1/16 inch
Thickness: 11/32 inch - 1/16 inch
Shape: Half round
Material: Steel
Features: American Pattern, Bastard Cut, Double Cut

DISTRIBUTION STATEMENT A: Approved for public release, distribution is unlimited.

A57. File Set, Thread Restorer. Shall be a set of files designed to restore damaged or worn external threads. Each file shall have eight faces, with each face cut for restoring a different thread size. The set shall contain: Type: Thread Restorer
Quantity: 4 files
Faces: 8 per file, each for different thread size
Components: File for inch coarse threads 11, 12, 13, 14, 16, 18, 20 and 24 TPI
File for inch extra fine and extra coarse threads 9, 10, 12, 16, 20, 27, 28, and 32 TPI
File for inch pipe threads 8, 10, 11-1/2, 14, 16, 18, 24 and 27 TPI
File for metric threads 0.80, 1.0, 1.25, 1.50, 1.75, 2.0, 2.5 and 3.0 mm
Includes: Carrying case or pouch

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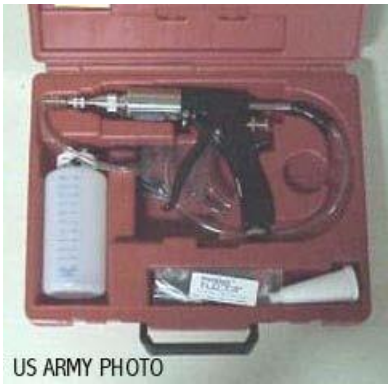
A58. Filler And Bleeder Kit, Brake System. Shall be a manual fluid injector. Shall have a full-range adjustable metering. Shall be able to produce 150 psi of injection pressure with a 15ml injection dosage. The kit shall include:
Features: Manual fluid injector; full-range adjustable metering;
Injection Pressure: 150 psi with 15ml injection dosage
Includes: Graduated fluid bottle assembly with quick couplers, debris magnet and holder; Tube connectors; 1/8 x 0.150 90 degree Adapter for 1/8" bleeder valves or ports; 3/16 x 4mm 90 degree Adapter for 1/8" or 3/16" valves; Quick coupler assembled with 3/16 x 4 mm 90 degree adapter; Quick couple assembly for 3/16" of ¼" bleeder valves; Taper Tip Adapters (4 ea); Luer Male/Female Plug; Universal Port Adapter; 3/16" x 4mm Straight Adapter; 3/16" x 0.150 Straight Adapter; 3/16" x 3/16" Straight Adapter; Taper Adapter; Pedal Flush and Capture Assembly with check valve and quick couplers; 28mm Bottle cap with siphon and quick coupler; 33mm bottle cap with siphon and quick coupler; Hand-pumped Injector with inlet and outlet hose assemblies, Carrying case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A59. [NOT USED]

A60. Finger, Mechanical.
Overall length: 17.5 inches
Type: 4 claws
Jaw Opening: 1 inch
Features: 8 inch minimum flexible section

A61. Fountain, Eye and Face.
SPECIFICATION: ISEA Z358.1
Tank Material: Stainless Steel
Tank Capacity: 5 gallons
Features: Pressurized

DISTRIBUTION STATEMENT A: Approved for public release, distribution is unlimited.

Includes: 5 foot minimum hand held drench hose and nozzle

A62. Funnel.
Material: Polypropylene
Spout Type: Rigid
Capacity: 2 quarts

A63. Funnel, Flexible Spout.
Material: Galvanized Steel
Spout Type: Flexible
Spout Length: 13 inches minimum
Capacity: 1 quart
Features: Automatic transmission tip; mesh strainer of 70-100 per linear inch
(Reference CID A-A-1068)

A64. Gage, Bolt and Thread, Metric. Folding-blade style case with 10 gages on one end for checking bolt diameters in the following sizes: 5mm, 6mm, 8mm, 9mm, 10mm, 11mm, 12mm, 16mm, 20mm; and 24mm. Each gage shall identify both the size of the bolt and the size of the wrench it requires. The opposite end of the case shall have 12 gages for determining thread pitch in millimeters: 0.80, 1.00, 1.25, 1.30, 1.40, 1.50, 1.60, 1.75, 1.80, 2.00, 2.50, and 3.00. The case shall list the standard metric bolt hardness grades and the corresponding bolt head markings. The case and gages shall be fabricated of corrosion-resistant material (e.g. stainless steel). (Photo not available.)

A65. Gage, Bolt and Thread, Standard. Folding-blade style case with 10 gages on one end for checking bolt diameters in the following sizes: 1/4", 5/16", 3/8", 7/16", 1/2", 9/16", 5/8", 3/4", 7/8", 1". Each gage shall identify both the size of the bolt and the size of the wrench it requires.
The opposite end of the case shall have 12 gages for determining pitch in threads per inch: 28, 24, 20, 18, 16, 14, 13, 12, 11, 10, 9, and 8. The case shall list the standard bolt hardness grades and the corresponding bolt head markings. The case and gages shall be fabricated of corrosionresistant material (e.g. stainless steel). (Photo not available.)

DISTRIBUTION STATEMENT A: Approved for public

A66. Gage, Wheel Alignment. Shall be a scribe-type toe-in Gauge for trucks which can extend up to a 96” (243.84 cm) width, with adjustable legs which can extend up to 17 1/2” (44.45 cm) high. (Photo not available.)

A67. Gloves, Rubber, Industrial.
Material: Industrial Rubber
Size: 9
Length: 12 inches nominal
Features: Chemical and abrasion resistant

A68. Goggles, Industrial. ANSI Z87.1
Material: Polycarbonate
Size: Over glasses
Strap: Adjustable elastic, 18 inches minimum
Color: Clear
Lens: Replaceable
Features: Direct ventilation, anti fog

A69. Grease Gun Kit. Shall provide the capability to pump lubricating grease from standard 5gallon/35 lb grease containers into standard grease guns and the included portable pressurized lubricating system. The portable lubricating system shall hold at least ten pounds of grease and shall be capable of producing 10,000 psig at the nozzle. Kit shall include the following components: **Component Details**

Coupler, ¼ inch filler
Features: Bulk loads grease guns

Filler, Grease Gun Attachment
Replacement dust cover

Packer, Bearing Attachment
Features: Packs bearing up to 6 inches; Includes heavy-duty dust cover

Attachment, Transfer/Filler
Capacity: 16 ounce
Hose: Flexible Vinyl

DISTRIBUTION STATEMENT A: Approved for public release, distribution is unlimited.

Follower: Heavy Duty for Positive Suction
Handle: Positive Grip
Barrel: Non-slip Knurled

System, Lube, Mini
Use: Grease Transfer/Loading Accessory Kit for Item S0216
Features: Compatible with grease guns with filler nipple
Top of Shelf B

Pump, Grease Transfer
Type: Quick Connect, for 35 Pound Pail
Ounces per Stroke: 2.13
Features: Pail cover and follower plate; loader nipple; dust cover for filler nipple **Pump, Grease Transfer**
Type: Quick Connect, for 35 Pound Pail
Ounces per Stroke: 2.13
Features: Pail cover and follower plate; loader nipple; dust cover for filler nipple

A70. Grease Gun, Pneumatic.
Power Source: Air powered
Extensions: 12 inch flexible and 6 inch rigid
Hose: 3/8 inch by 50 foot PVC
Features: Quick connect end; vehicle pneumatic brake system glad hand; compatible with standard grease cartridges

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A71. Grinding Machine, Utility.
Horsepower: ½
Voltage: 115
Hertz: 60
Phase: 1
Amps: ¾
RPM: 3600
Wheel Size: 7 inches maximum
Wheel Quantity: 2

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A72. Gun, Fluid, Direct Delivery. Shall be a one-pint capacity suction-fill gun used for filling and draining. Shall have an 11” flexible vinyl hose.

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DISTRIBUTION STATEMENT A: Approved for public release, distribution is unlimited.

A73. Hammer, Hand, Carpenters', Curved Claw, 16 Oz.
Style: Curved Claw
Head Weight: 16 ounces
Overall Length: 13 inches nominal
Handle Material: Fiberglass
Face Surface: Smooth
Head Material: Forged Steel
Features: Non-magnetized Head, Cushion Grip Handle

A74. Hammer, Hand, Soft Face, Dead Blow, 52 Oz.
Style: Soft Face, Dead Blow
Head Weight: 52 ounces
Overall Length: 16 inches nominal
Handle Material: Steel Reinforced
Face Diameter: 2 ¾ inches
Features: Nonmetallic Head

A75. Hammer, Hand, Soft Face, Dead Blow, 10 Oz.
Style: Soft Face, Dead Blow
Head Weight: 10 ounces
Overall Length: 10 inches nominal
Handle Material: Steel Reinforced
Face Diameter: 1 ¼ inches
Features: Nonmetallic Head

A76. Hammer, Sledge, Double Faced, 10 Lb.
Style: Double Faced Sledge
Head Weight: 10 pounds
Handle Length: 32 inches nominal
Handle Material: Fiberglass
Face Diameter: 2 ½ inches
Features: Support Grip

DISTRIBUTION STATEMENT A: Approved for public release, distribution is unlimited.

A77. Hammer, Hand, Dead Blow, Ball Peen.

Style: Dead Blow, Ball Peen
Head Weight: 40 ounces
Overall Length: 15 inches minimum
Handle Material: Steel Reinforced
Face Diameter: 1 11/16 inches
Features: Hardened Steel Face and Peen

A78. Hammer Set, Holder and Inserts. Shall consist of two soft face hammers, with tips.

Component Details

Hammer, Soft Face, 1.5" -QTY- 1
Style: Soft Face, Non-Marring
Head Weight: 16 ounces
Handle Length: 12 inches minimum
Handle Material: Fiberglass
Face Diameter: 1 ½ inches
Features: Cushioned Handle

Hammer, Soft Face, 2" -QTY- 1
Style: Soft Face, Non-Marring
Head Weight: 24 ounces
Handle Length: 13 inches minimum
Handle Material: Fiberglass
Face Diameter: 2inches
Features: Cushioned Handle

Tip, Hammer Insert, 1.5", Non-Metallic, Hard -QTY- 2
Style: Hard, Nonmetallic
Material: Nylon
Face Diameter: 1 ½ inches
Thread Size: 5/16-18
Features: Threaded Studs for hammerhead attachment
Drawer L3

Tip, Hammer Insert, 2", Non-Metallic, Tough -QTY- 2
Style: Tough, Nonmetallic
Material: Vinyl
Face Diameter: 2 inches
Thread Size: 3/8-16
Features: Threaded Studs for hammerhead attachment

DISTRIBUTION STATEMENT A: Approved for public release, distribution is unlimited.

A79. Hammer, Pneumatic. Shall consist of a hand-held pneumatic hammer, with tail pipe cutter, claw ripper/edge tool, flat chisel, tapered punch. Also provided shall be 3 ball joint/ tie rod separators (not shown) with 5/8, 13/16, 1-1/4 inch openings, respectively. The hammer shall be provided with quick-change retainer for chisels and other accessories having standard diameter shanks. The retainer shall lock the chisel or other accessory in place during use. Carrying case and lubricating oil shall be included. A male 3/8" ID quick disconnect fitting shall be installed on each hammer.

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A80. Holder, Punch and Chisel.
Material: Plastic Screwdriver-type Handle, Steel Frame, Nylon Tip
Overall Length: 6 inches minimum
Style: Screw-clamp holder
Finish: Black Oxide
Capacity: Punches and Chisels up to 1 inch in diameter

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A81. Hose Assembly, Air, Nonmetallic.
Inside Diameter: 3/8 inch
Length: 50 Feet
Pressure: 175 psig minimum
Operating Temperature: -25 to +120 degrees F minimum
Couplings: 3/8 inch male and female quick disconnect, one on each end
Features: Highly flexible, resistant to flex fatigue, oils, solvents, cuts and abrasion (For use with compressor.)

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A82. Indicator, Dial. Shall be a dial indicator of the type with the spindle perpendicular to the dial from the back of the case. The indicator shall have a jewel bearing movement and a plunger style contact point. The indicator shall be 1.5" (nominal) in diameter, shall have a spindle travel from 0 to 0.200", shall be marked from 0 to 100 in 0.001"graduations and shall have a zero position setting adjustable 360 degrees. The dial indicator shall be provided with standard button and ball contact points, a tool post holder having an upright spindle, an arbor clamp, a hole measurement attachment, and a carrying case.

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DISTRIBUTION STATEMENT A: Approved for public release, distribution is unlimited.

A83. Inflator-Gage and Hose Assembly, Pneumatic Tire. The inflator gage assembly shall satisfy the requirements of OSHA Regulation 29 CFR 1910.177(d)(4) and CID A-A-59568, Class 3, Style D, Range 2. The hose shall have a 0.25" inside diameter, a rated working pressure of at least 175 psig, a burst pressure of at least 900 psig; and shall be at least 10 feet long. The pressure gage shall be an enclosed self-contained cartridge with a range of 10 to 120 psig, graduated in two-pound increments. A lever-operated valve shall control inflation. The assembly shall include a deflating valve between the gage and hose. Two clip-on valve chucks, sizes 0.302-32 and 0.482-26, shall be supplied with the assembly. The hose end shall be provided with a female quick-disconnect fitting, and the clip-on valve chucks shall each be provided with a male quick disconnect nipple to provide for rapid change. The chucks shall be attached to the end of the hose with light chain to prevent loss. A male 3/8" ID quick disconnect inlet fitting shall be installed on each assembly (not shown in pic).

A84. Jack Kit, Hydraulic, Hand.

Type: Hand Hydraulic
Capacity: 20 tons minimum
Concentric Loads: 20,000 pounds
Offset Loads: 8,000
Pump: Manually operated; lever operated handle; relief valve
Ram: Remote; 12 inch collapsed height; 5 inch plunger travel
Hose: Connecting pump and ram; six feet long; quick disconnect coupling at ram end
Components: (1 ea) serrated or grooved saddle; (1 ea) toe lift threaded to fit ram cylinder; (1 ea) plunger base; (1 ea) ram (body) base; (1 ea) chain pull plate; (2 ea) 8 foot chains with 3/8 inch link cross-section diameter with hook on one end; (2 ea) female threaded couplings, ram to extension; (1 ea) 10-12 inch long male threaded extension tube; (1 ea) 18-20 inch long male threaded extension tube; (1 ea) 24-30 inch long male threaded extension tube; (1 ea) male threaded extension tube 60 inches long minimum; Operators manual
Carrying case: sized to hold all components

DISTRIBUTION STATEMENT A: Approved for public release, distribution is unlimited.

A85. Jack, Bottle, Hydraulic, Hand, 12 Ton. The jack shall be a self-contained unit consisting of a solid plunger and an integral pump, ram and reservoir. The jack shall have a rated load capacity of at least 12 tons. It shall have a minimum extended height 16.5" and maximum retracted height of 9.125", and shall be supplied with a removable pump handle.

A86. Key Set, Hex, Inch.
Material: Alloy Steel
Finish: Black Oxide
Arm Type: Short
Handle Type: L shaped

Shall consist of the following items:
Inch Keys: 0.028, 0.035, 0.050, 1/16, 5/64, 3/32, 7/64, 1/8, 9/64, 5/32, 3/16, 7/32, ¼, 5/16, 3/8, ½, 9/16, and 5/8 inch,

A87. Key Set, Hex, Metric.
Material: Alloy Steel
Finish: Black Oxide
Arm Type: Short
Handle Type: L shaped

Shall consist of the following items:
Metric Keys: 0.7 mm, 0.9 mm, 1.3 mm, 1.5 mm, 2 mm, 2.5 mm, 3 mm, 4 mm, 5 mm, 6 mm, 8 mm, 10 mm, 12 mm, 14 mm, and 17 mm

NOTE: Items A86 and A87 can be combined as a single set in a single case.

A88. [NOT USED]

A89. Lift, Transmission and Differential.

DISTRIBUTION STATEMENT A: Approved for public release, distribution is unlimited.

Type: Heavy Duty, Manual/Hydraulic
Lifting Capacity: 2000 pounds minimum
Maximum Lifting Height: 34 inches
Minimum Lifting Height: 8 inches
Handle Length: 24 1/4 inches nominal
Tilt Capacity Front/Rear/Side: 10 degrees
Inlet Air Pressure Range: 90 to 200 psi
Base Size: 28-1/4 inches by 44-1/2 inches nominal
Accessories: chains, wedges, clamps, bars, brackets, and other saddle attachments

A90. Light, Battery Operated, Rechargeable.
Includes one (1) each of the following: Flashlight, Battery Pack, Charger, Carrying Case
Drawer H10

QTY: 1
Flashlight, Cordless, Pivoting Head, 18V (minimum)
Type: Pivoting head, rotates 90 degrees
Power Source: Battery
Voltage: 18 V
Bulb Type: Xenon
Run-Time: 3 hours
Features: On-off switch; Wide-angle fixed beam; Stable base for standing upright

QTY: 1
BATTERY PACK 18V XRP Voltage: 18 V
Feature: Rechargeable, compatible with Flashlight
Drawer H10
QTY: 1
1 HOUR CHARGER
Voltage: 7.2 – 18 V
Charge Time: 1 hour
Feature: compatible with Battery Pack
Drawer H10

QTY: 1
Case, Carrying,
Material: High Density Polyethylene
Features: Shock absorbing air cushion; temperature, chemical, split, crack, scratch and rust resistant; accommodates flashlight, Battery Pack, and Charger

DISTRIBUTION STATEMENT A: Approved for public release, distribution is unlimited.

A91. Light, Extension, Fluorescent.
Type: Stubby
Length: 13 inches
Handle Material: Rubber
Watts: 13
Volts: 120 V, 60 Hz
Cord Length: 25 feet minimum
Features: Replaceable, protective tube shield

A92. [NOT USED]

A93. Lubricating Gun, Hand. Shall be a pistol-grip style variable stroke grease gun with flexible 10" extension hose. Shall be suitable for both standard 14-1/2 oz cartridges and bulk fill, and shall be provided with a filler nipple and a bleeder valve.

A94. Lubricating Gun, Battery Operated, Rechargeable.
Power Source: 12 V Battery
Max. Operating Pressure: 6000 psi
Tube Material: Metal
Hose Type: Flexible
Hose Length: 24 inches minimum
Includes: Carrying Case, 12 V rechargeable battery, 110 V Fast Charger (Photo not available.)

A95. Measure, Liquid, 8 Quart. Capacity: 8 Quart
Operation: Thumb operated valve controls flow, flip action locks valve open
Spout Type: Metal, Flexible with 60 degree vertical swivel
Spout Length: 14 inches
Includes: Recessed Bottom, Carrying Handle, Leak-proof, Used for Oil

A96. Measure, Liquid, 2 Quart.
Capacity: 2 Quart
Operation: Thumb operated valve controls flow, flip action locks valve open
Spout Type: Metal, Flexible with 60 degree vertical swivel
Spout Length: 14 inches
Includes: Recessed Bottom, Carrying Handle, Leak-proof, Used for Oil

DISTRIBUTION STATEMENT A: Approved for public releas

A97. Multimeter. Shall be able to measure AC and DC voltage, shall measure resistance in Ohms, shall measure AC and DC current, shall test diodes, and shall have an audible signal for continuity checks.
CAT III 1000V, CAT IV 600V
Display: Backlight LCD
Measurements: 1000 volts AC/DC; 50 mega-ohms; 1nF to 10,000uF capacitance; 0.01 Hz to 100 kHz frequency counter; 10 amps AC/DC
Operating Temperature: 15-120 degrees F minimum
Features: 4 place digital display; display hold; manual/automatic range selection; auto-off for battery conservation; water and dust resistant case; impact resistant up to 4 foot drop; diode test
Includes: Battery; Silicone Test Lead Extension Set; Alligator Clip Set, insulated, threaded, slide-on; Rigid Back Probe Pins, 2 inch length; user manual

A98. Multiplier, Torque.

Maximum Torque Output: 2,000 foot pounds
Torque Direction: Clockwise and Counterclockwise
Torque Ratio: 3.6 to 1
Input Drive: ¾ inch square female
Output Drive: 1 inch square male
Head Thickness: 4 3/8 inches nominal
Head Diameter: 3 17/32 inches nominal
Overall Length: 24 inches nominal
Features: Detachable reaction bar and metal housing

A99. Oiler, Hand. .
Capacity: 4 ounces
Function: Hand-pumped
Nozzle: Adjustable, fine mist to thin stream
Spout Length: 3 inches minimum

A100. Pan, Drain.

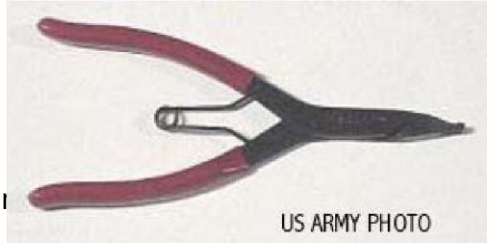
DISTRIBUTION STATEMENT A: Approved for public release, distrib

Dimension: 33 inches long; 22 inches wide; 8 inches high
Capacity: 6 gallon minimum
Material: Heavy-duty plastic
Feature: Circular basin with apron for washing and sorting parts, designated pour location on lip

A101. Plate, Bolster, 24" x 24". Shall be a plate of nonmetallic material 2 feet square suitable for use as cribbing under a 12-ton bottle jack when used on unpaved surfaces.
Material: Non-metallic
Length: 24 inches
Width: 24 inches
Temperature Range: -25 degrees F to 125 degrees F minimum
Resistant to: Corrosion, Ozone, Ultraviolet Light, deformation, fracturing, splintering
Features: Resistant to water, petroleum products, detergents, mold, and mildew
Load Maximum: 50 pounds per square inch
Handhold Openings: 6 inches by 3 inches
Use with: 12-ton bottle jack (Photo not available.)

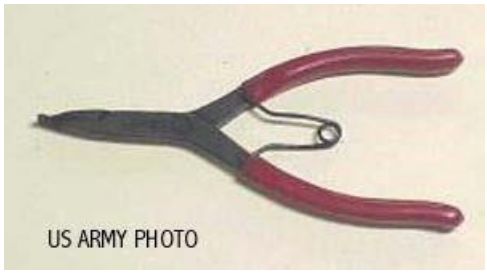
A102. Plate, Bolster, 40" x 72". Shall be at least 3 feet 4 inches by 6 feet, and suitable for use as cribbing under a 2000 lb capacity transmission lift when used on unpaved surfaces.
Material: Non-metallic
Length: 72 inches
Width: 40 inches
Temperature Range: -25 degrees F to 125 degrees F
Resistant to: Corrosion, Ozone, Ultraviolet Light, deformation, fracturing, splintering Features: Resistant to water, petroleum products, detergents, mold, and mildew
Load Maximum: 50 pounds per square inch
Handhold Openings: 6 inches by 3 inches
Use with: 2000 pound transmission lift
(Photo not available.)

A103. Pliers, Lock-Ring. [Type III, Class 1]
ASME B107.500 (B107.19)
Type: Parallel Jaw, Compound Leverage
Material: Heat Treated Alloy Steel
Tip Type: Fixed
Jaw Opening: 1 ¼ inches minimum
Overall Length: 9 inches minimum
Handle: Cushion Grip



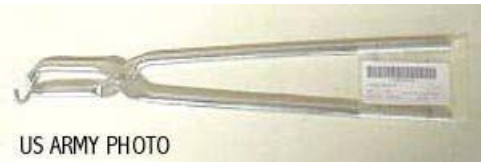
DISTRIBUTION STATEMENT A: Approved for public r

A104. Pliers, Lock-Ring.
ASME B107.500 (B107.19) Type III, Class 2
Type: Locking Ring
Tip Type: Fixed
Overall Length: 7 inches minimum
Handle: Cushion Grip

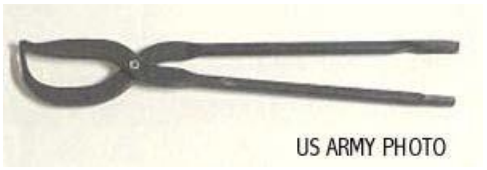


A105. Pliers Set, Retaining Ring. The set shall contain fixed-tip convertible snap-ring pliers [materiel: heat treated alloy steel] for use on internal and external retaining rings. The pliers shall have cushion grip handles. The set shall contain the following items:
Type: Convertible Snap-ring
Tip Type: Fixed
Handle: Cushion Grip
Quantity: 12
Includes: Straight: 0.038, 0.047, 0.070, and 0.090 inch
45 degree angle: 0.038, 0.047, 0.070, and 0.090inch
90 degree angle: 0.038, 0.047, 0.070, and 0.090 inch
Carrying Case

A106. Pliers, Brake Repair, Heavy. The pliers shall be provided with a hooked or slotted jaw and a bent or curved jaw suitable for removing and replacing brake springs for heavy trucks. The end of one or both handles shall also be furnished with a groove or other suitable means for quick replacement of brake springs. The working ends of the pliers shall be hardened to a reading of 48-52 on the Rockwell C scale. The pliers shall be at least 19" long. (Reference GGG-P-00474, Type II, Class 1, Style 1)



A107. Pliers, Brake Repair, Light. Double Ended Tool for removing and installing brake springs. Use plier tips to stretch brake spring. Handle ends remove and installs spring over anchor post. Handle length is 12" nominal.



A108. Pliers, Wire Twister. The pliers shall be of a type used primarily for twisting safety wires. ASME B107.500 (B107.18) Type I, Class 2, Style A
Type: Manual return, Right-hand twist
Pliers Length: 9 inches nominal
Overall Length: 10 inches minimum
Wire Size: 0.020 to 0.060

DISTRIBUTION STATEMENT A: Approved for public release, distribution is unlimited.

Jaw Type: Flat Top Diamond Serrations
Finish: Black Oxide

A109. Pneumatic Bag Kit, Lifting. The kit shall have the rated capacity to lift 10 tons to a height of at least 21". A 3/8" ID male to ¼" ID male quick disconnect adapter shall be supplied in addition to the kit.
Component details
Bags, Lifting (Qty 2)
Dimensions: 24 inches long, 20 inches wide, ¾ inches thick
Rated Capacity: 10 tons to 21 inches high minimum

Console, Control, Command (Qty1)
Power Source: Pneumatic
Maximum Pressure: 14.5 PSI
Operating Temperature: -40 to 185 degrees F minimum
Includes: Inlet pressure gauge, dual liquid filled gauges to monitor air pressure in bag, inlet hose, regulators, valve handles, operating instructions, and a carry case
Hose Diameter: 3/8 inch
Hose Length: 4 feet
Hose Color: Black

Hose, Yellow, 16 Ft (Qty 1)
Diameter: 3/8 inch
Length: 16 feet
Working pressure: 300 psi minimum
Color: Yellow
Features: closed couplings at each end, flexible hose

Hose, Red, 16 Ft (Qty 1)
Diameter: 3/8 inch
Length: 16 feet
Working pressure: 300 psi minimum
Color: Red
Features: closed couplings at each end, flexible hose

A110. [NOT USED]

DISTRIBUTION STATEMENT A: Approved for public release, distribution is unlimited.

A111. Puller Set, Mechanical. Shall consist of pullers and puller accessories. Shall be rated for a pulling force of at least 10 tons. The puller set shall consist of:

2-Arm Pullers: 4 inch spread, 3 ¼ inch reach; 6 inch spread, 3 ¼ inch reach; 9 inch spread, 5 inch reach; 12 inch spread, 11 inch reach
Bearing Separators: ¼ to 15-16 inch capacity; 1/8 to 2 inch capacity; ½ to 4 5/8 inch capacity
Press-Puller: Frame and forcing screw with 2 1/8 to 7 1/4 inch spread; two leg ends; two 6 ¾ inch legs; two 15 ¾ inch legs, two leg connectors
Gear and Pulley Puller: 1 ½ - 4 ¼ inch spread, 13 inch forcing screw
Internal Pulley: 1-1/2 inch to 6 inch Spread, 4 inch Reach
Steering Wheel Puller: Body with forcing screw; Two Cap Screws 3/8”-16 x 3-1/2”; Two Cap Screws 5/16”-18 x 3-1/2”; Two Cap Screws 5/16”-24 x 3-1/2”; Two Cap Screws 5/16”-24 x 4” (SIR); Two Cap Screws M8”-1.25 x 90mm
Pittman Arm Puller: 2-3/4 inch Spread, 5-1/2 inch Reach
Harmonic Balancer Puller: Frame and forcing screw for bolt circle diameters from 1-1/2 inch to 4-5/8 inch; Three cap screws 3/8”-24 x 3”; Three cap screws 3/8”-16 x 3”
Slide Hammer: 2 Leg/3 Leg head with Inside/Outside Legs, 1-1/4 inch to 4-1/2 inch Spread, 21/2 pound Hammer
Pilot Bearing Puller: 2-Leg Inside Head, 1-1/2” Spread and ¾” Reach, 1-3/4 Lb. Hammer
Threaded Shaft Adapters: 5/8”-18 x 5/8”-18; 5/8”-18 x ¾”-16; 5/8”-18 x 7/8”-14; 5/8”-18 x 1”14; 5/8”-18 x 1-1/8”-12; 5/8”-18 x 1-1/4”-12
Hollow Shaft Adapters: 1” x ¾”; 1-1/8” x 7/8”; 1-1/4” x 1”; 1-3/8” x 1-1/8”; 1-5/8” x 1-1/4”; 13/4” x 1-3/8”; 1-7/8” x 1-1/2”; 2” x 1-5/8”; 2-1/8” x 1-3/4”; 2-3/8” x 1-7/8”; 2-1/2” x 2”

A112. Puller, Mechanical, Steering Wheel. Shall be made to remove steering wheels. Includes: Steering wheel lock plate remover; Steering pivot pin remover; Steering wheel puller; Four sets of cap screws (quantity of two of each size: M8-1.25 x 90 mm 3/8"-16 x 3-1/2" 5/16"24 x 3-1/2" and 5/16"-18 x 4"); Plastic case

A113. Puller, Mechanical, Pittman Arm. Shall be a Pittman arm puller for medium and heavy trucks.

Use: Medium and Heavy Trucks
Puller Leg Type: Adjustable
Puller Leg Length: 5.5 inches nominal
Maximum Jaw Spread: 2 ¾ inches
Includes: Locking clamp bolts; adaptor

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A114. Pump, Lubricant. Shall consist of a drum dolly and a manual lubricant pump with abrasion-resistant delivery hose (5 feet long, nominal). The pump base shall enable it to be attached to the top of a standard 5gallon bulk container for delivering lubricant directly from the container. The dolly shall provide caster wheels and a base frame suitable for retaining a standard 5-gallon bulk container.

A115. Punch and Chisel Set. Shall consist of 26 pieces, as listed in the table below.
ASME B107.500 (B107.48)
Material: S2 Hardened Steel
Finish: Black Oxide
Quantity: 26
Includes one each of the following:
Cold Chisel: 3/4" by 6-1/2" long; ¼" by 4" long; 5/16" by 4" long; 3/8" by 5" long; ½" by 5-3/4" long; 5/8" by 6" long; 7/8" by 71/2" long; 1" by 8" long"; 1-3/16" by 9" long Drive Pin Punch: 3/32"; 1/8"; 5/32"; 3/16"; 7/32"; ¼"
Tip Drift Punch: 1/8" by 8" long; 3/16" by 8" long; ¼" by 8-1/2" long
Tip Starting Punch: 3/32"; 1/8"; 3/16"; 7/32"; ¼"
Center Punch: #2 (1/2" Body) Center Punch, length 3-1/4" minimum; #7 (3/8" Body) Center Punch, length 4" minimum
Prick Punch: #3 (5/16" Body) Prick Punch, length 5" minimum
Carrying Case

A116. Punch Set, Cutting, Gasket. Shall contain mandrel and hollow punches of these sizes
Material: Tempered Alloy Steel
Number of Pieces: 10
Includes: one each 1/4, 5/16, 3/8, 7/16, 1/2, 9/16, 5/8, 3/4, 7/8, and 1 inch hardened and tempered hollow punches; one self-centering steel mandrel.

A117. Sander/Grinder 4.5". The right-angle style grinder shall have a 120 Volt, 60 Hz, single phase, 2.1 hp variable speed motor, with a maximum rated speed of at least 10,000 rpm, long life brushes and high output fan. The spindle thread size shall be 5/8"11. The

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grinder shall have a lock off button and shall be double insulated.

A118. Saw, Hand, Crosscut. Shall be a straight back cross-cut wood saw with a hardwood or composite handle, an overall length of 15” nominal and 9 teeth per inch. Blade High Carbon Steel heat treated.

A119. Saw, Hand, Metal Cutting. Shall be a compact, lightweight utility mini-hacksaw for work in close quarters. Shall accept standard hacksaw blades.

A120. Saw, Hand, Metal Cutting.
Type: High Tension
Overall Length: 16 inches
Throat Depth: 2 ½ inches minimum
Blade: 12 inches long; 24 TPI; hacksaw blade

A121. Scale, Weighing.
Type: Straight-face hanging spring
Range: 0-50 pounds avoirdupois
Graduations: 1 pound
Accuracy: Within 4 pounds for loads less than 20; within 8 pounds for loads more than 20
Includes: Suspension ring on top, hook on bottom

A122. Scraper, Gasket. Shall be a carbide edge scraper with a 0.125” thick steel shank.
Material: Steel
Tip: ground carbide double edge
Shank: 1/8 inch thick; nickel chrome finish
Handle: Hardwood

A123. Screwdriver Attachment Set, Torx.
Tip Type: Torx
Measurement: Standard
Drive Type: Square
Number of Points: 6
Socket Finish: Full Polished Chrome
Quantity: 12
Includes 1/4 Inch drive sizes: T-8, T-10, T-15, T-20, T-25, and T-27
Includes 3/8 inch drive sizes: T-30, T-40, T-45, T-47, T-50, and T-55

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Features: replaceable torx bits; carrying case with separate locations for each socket

(Picture not available.)

A124. Screwdriver Attachment Set, Inch, Hex.
Tip Type: Hex
Material: Heat Treated Steel
Measurement: Standard
Drive Type: Square
Number of Points: 6
Socket Finish: Full Polished Chrome
Quantity: 10
Includes 3/8 Inch drive sizes: 5/32, 7/32, 1/4, 1/8, 3/16, 3/8, and 5/16 inch
Includes 1/2 inch drive sizes: 5/8, 9/16, and 1/2 inches

A125. Screwdriver Attachment Set, Metric, Hex. The set shall contain square drive sockets for metric socket head fasteners that range from 4 to 17 mm. Items are listed below:
Tip Type: Hex
Material: Heat Treated Steel
Measurement: Metric
Drive Type: Square
Number of Points: 6
Socket Finish: Full Polished Chrome
Quantity: 10
Includes 3/8 Inch drive sizes: 10, 9, 4, 6, 5, 7, and 8 mm
Includes 1/2 inch drive sizes: 12, 14, and 17 mm

A126. Screwdriver Set, Jewelers'. The set shall consist of six swivel-knob jewelers' screwdrivers.
Type: Jeweler's
Handle: Swivel-knob
Includes Flat-tip sizes: 1.5 mm, 2 mm, 2.5 mm, and 3 mm
Includes Cross Tip sizes: #00, #0, and #1 Features:
Carrying case or pouch

A127. Screwdriver Set. Includes one each of the following:
Offset Screwdriver, Flat Tip, sizes: 5/32 inch by 3 inches long; ¼ inch by 4 inches long; 5/16 inches by 5 inches long; 3/8 inch by 6 inches long
Offset Screwdrivers, Cross Tip, sizes: #1 by 4 ½ inches long; #2 by 4 ½ inches long; #3 by 6 ½ inches long; #4 by 6 ½ inches long

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Stubby Screwdrivers, Flat Tip, sizes: 3/16 inches by 3 inches long; ¼ inches by 3 ½ inches long
Stubby Screwdrivers, Cross Tip, sizes: #2 by 3 ½ inches long
Round Shank Screwdrivers, Cross Tip, sizes: (2) #4 by 13 ½ inches long
Square Shank Screwdrivers, Flat Tip, sizes: (2) 3/8 inch by 12 inches long
Handle material: Plastic, excludes offset screwdrivers
Blade Finish: Chrome

A128. Screwdriver Set, Torx. The set shall contain torx screwdrivers. Items are listed below:

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Tip Type: Torx Included Sizes:
T10 by 3 inches long
T15 by 3 inches long
T15 by 1 ¼ inches long
T20 by 3 inches long
T25 by 3 inches long
T27 by 4 inches long
T30 by 4 inches long
T40 by 6 inches long
Handle material: Plastic
Blade Finish: Chrome
Features: Carrying Case or Tool Roll

A129. Sharpener, Drill, Portable.
Voltage: 120 VAC, 60 Hz
Application: Sharpens steel, masonry, carbide, cobalt, and TiN-coated bits
Sizes: 3/32 through 3/4 inch bits and other equivalent sizes
Tip Angles: 115 to 140 degrees
Includes: Replaceable diamond sharpening wheel; plastic case (Photo not available.)

A130. Shears, Bent Trimmer.

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Material: Steel
Finish: Nickel chrome
Handle: Offset ring and bow
Length: 8 inches minimum
Length of cut: 3-1/2 inches minimum
Blades: Bent, minimum one blade sharp pointed

A131. Sling, Engine and Transmission, 3 Ton. Shall be an adjustable-attitude lifting sling with a 6000 lb rated capacity, a self-locking tilt adjustment mechanism, and a lifting eye with a 1-5/8" inside diameter. The sling width shall be adjustable from 30" to 46" and the angle of the sling relative to the horizontal plane shall be adjustable from 0 to thirty degrees in both directions. The sling shall be provided with a chain hook at each end. The sling shall also be provided with two 5/16" chains, each at least two feet long and having an eye hook on one end. Chain grade is 80.

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A132. Sling, Engine and Transmission, 2 Ton. Shall be an adjustable-attitude lifting sling with 4000 lb rated capacity, a self-locking tilt adjustment mechanism, and a lifting eye with a 15/8" inside diameter. The sling shall adjust the tilt relative to the horizontal of the object being lifted by shifting the position of a 5/16" chain. The chain shall be provided with eyehooks on each end with throat openings of not less than 1 inch. The total length of the chain with hooks shall be not less than 65-3/4".

A133. Socket Set, Socket Wrench, 3/8" Drive, Metric, Universal.
ASME B107.110, Category 2, Type III
Material: Steel
Measurement: Metric
Type: Universal Socket
Material: Steel
Finish: Chrome
Drive Size: 3/8 inch
Number of Points: 6
Socket Depth: Standard
Quantity: 15
Included Sizes: 7mm, 8mm, 10mm, 11mm, 12mm, 13mm, 14mm, 15mm, 16mm, 17mm, 18mm, 19mm, 21mm, 22mm, and 24mm
(Photo not available.)

A134. Socket Set, Socket Wrench, 3/8" Drive, Inch, Universal.
ASME B107.110, Category 2, Type III
Type: Universal Socket
Material: Steel
Finish: Chrome
Drive Size: 3/8 inch
Number of Points: 6
Socket Depth: Standard
Quantity: 7
Included Sizes: 3/8 inch, 7/16 inch, 1/2 inch, 9/16 inch, 5/8 inch, 11/16 inch, and 3/4 inch
(Photo not available.)

A135. Socket Set, Socket Wrench, ¾" Drive, Inch, Regular. Shall consist of the items listed below.
ASME B107.110, Category 2, Type III
Material: Steel
Finish: Chrome
Drive Size: 3/4 inch
Number of Points: 12
Quantity: 30

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Includes: Ratchet: Quick Release, Reversible, 20 inches long, 24 teeth minimum
Handles: Sliding T Handle, 20 inches long; Hinge Handle, 20 inches
Extensions: 4 inch; 8 inch; 16 inch
Universal Joint
Adapter: ¾ inch drive to ½ inch drive
Sockets: 7/8 inch; 15/16 inch; 1 inch; 1-1/16 inch; 1-1/8 inch; 1-¼ inch; 1-5/16 inch; 13/8 inch; 1-7/16 inch; 1-½ inch; 1-9/16 inch; 1-5/8 inch; 1-11/16 inch; 1-3/4 inch; 1-13/16 inch; 1-7/8 inch; 2 inch; 2-1/16 inch; 2-1/8 inch; 2-3/16 inch; 2-1/4 inch; 2-3/8 inch

A136. Socket Set, Impact Wrench, 1/2" Drive, Metric, Universal. Shall consist of the following:
ASME B107.110, Category 2, Type III
Material: Steel
Finish: Black oxide
Type: Universal Socket
Drive Size: 1/2 inch
Number of Points: 6
Quantity: 10
Included Sizes: 13mm, 14mm, 15mm, 16mm, 17mm, 18mm, 19mm, 21mm, 22mm, and 24mm
(Photo not available.)

A137. Socket Set, Impact Wrench, 1/2" Drive, Inch, Universal. Shall consist of the following:
ASME B107.110, Category 2, Type III
Material: Steel
Finish: Black oxide
Type: Universal Socket
Drive Size: ½ inch
Number of Points: 6
Quantity: 8
Included Sizes: ½ inch, 9/16 inch, 5/8 inch, 11/16 inch, ¾ inch, 13/16 inch, 7/8 inch and 15/16 inch
(Photo not available.)

A138. Socket Set, Impact Wrench, ¾" Drive, Inch. Shall consist of the items listed below:
ASME B107.110
Material: Steel
Finish: Black oxide
Drive Size: ¾ inch
Number of Points: 6
Quantity: 11

Included Sizes: Standard Length: 1-½ inch, 1-9/16 inch, 1-5/8 inch, 1-11/16 inch, 1-¾ inch, 113/16 inch, 1-7/8 inch, 1-15/16 inch and 2 inch, Deep Length 4 point: 13/16 inch, and Budd Wheel, Deep Length, Double Opening 6 point: 1 ½ inch

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A139. Socket Set, Master, Socket Wrench, ¼", 3/8", and ½" Drive. Shall consist of the items listed below.

ASME B107.110
Material: Steel
Finish: Chrome
Quantity: 225
Includes one each of the following:

1/4 inch drive:

Ratchet: Reversing, sealed head, 4-3/8 inch long, 45 teeth minimum

Extensions: 3 inch; 6 inch; 10 inch

Universal Joint: 1-1/2 inch

Inch Sockets, 6 point, standard length: 1/8, 5/32, 3/16, 7/32, ¼, 9/32, 5/16, 11/32, 3/8, 7/16, ½, and 9/16 inch

Metric Sockets, 6 point, standard length: 4mm, 4.5mm, 5mm, 5.5mm, 6mm, 7mm, 8mm, 9mm, 10mm, 11mm,12mm, 13mm, 14mm, and 15mm

Inch Sockets, 6 point, deep length: 1/8, 5/32, 3/16, 7/32, ¼, 9/32, 5/16, 11/32, 3/8, 7/16, ½, and 9/16

Metric Sockets, 6 point, deep length: 4mm, 4.5mm, 5mm, 5.5mm, 6mm, 7mm, 8mm, 9mm, 10mm, 11mm,12mm, 13mm, 14mm, and 15mm

3/8 inch drive:

Ratchet: Reversing, sealed head, 8-1/2 inch long, 45 teeth minimum

Extensions: 1-1/2 inch; 3 inch; 6 inch; 8 inch

Universal Joint: 2-1/4 inch

Inch Sockets, 6 point, standard length: ¼, 5/16, 3/8, 7/16, ½, 9/16, 5/8, 11/16, 3/4, 13/16, 7/8, 15/16, and 1

Metric Sockets, 6 point, standard length: 6mm, 7mm, 8mm, 9mm, 10mm, 11mm,12mm, 13mm, 14mm, 15mm, 16mm, 17mm, 18mm, 19mm, 20mm, 21mm, 22mm, 23mm and 26mm

Inch Sockets, 6 point, deep length: ¼, 5/16, 3/8, 7/16, ½, 9/16, 5/8, 11/16, 3/4, 13/16, 7/8, 15/16, and 1

Metric Sockets, 6 point, deep length: 6mm, 7mm, 8mm, 9mm, 10mm, 11mm,12mm, 13mm, 14mm, 15mm, 16mm, 17mm, 18mm, 19mm, 20mm, 21mm, 22mm, 23mm and 26mm

1/2 inch drive:

Ratchet: Reversing, sealed head, 10-1/2 inch long, 45 teeth minimum

Extensions: 2 inch; 3 inch; 5 inch; 10 inch

Universal Joint: 2-7/8 inch

Stud Remover: 5/16-3/4 capacity

Inch Sockets, 6 point, standard length: 3/8, 7/16, ½, 9/16, 5/8, 11/16, 3/4, 13/16, 7/8, 15/16, 1, 1-1/16, 1-1/8, 1-3/16, 1-1/4, 1-5/16, 1-3/8, 1-7/16, and 1-1/2

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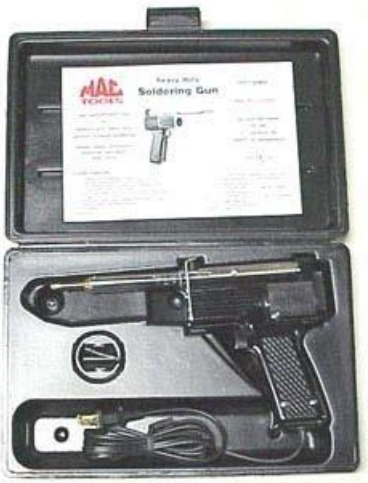
Metric Sockets, 6 point, standard length: 9mm, 10mm, 11mm,12mm, 13mm, 14mm, 15mm, 16mm, 17mm, 18mm, 19mm, 21mm, 22mm, 23mm, 24mm, 25mm, 26mm, 27mm, 28mm, 29mm, 30mm, 32mm, and 36mm
Inch Sockets, 6 point, deep length: 3/8, 7/16, ½, 9/16, 5/8, 11/16, 3/4, 13/16, 7/8, 15/16, 1, 1-1/16, 1-1/8, 1-3/16, 1-1/4, 1-5/16, 1-3/8, 1-7/16 and 1-1/2
Inch Sockets, 12 point, standard length: 19/32, 21/32 and 25/32
Metric Sockets, 12 point, deep length: 10mm, 11mm,12mm, 13mm, 14mm, 15mm, 16mm, 17mm, 18mm, 19mm, 20mm, 21mm, 22mm, 23mm, 24mm, 25mm, 26mm, 27mm, 28mm, 29mm, 30mm and 32mm
Socket Wrench Drive Adapters: 3/8 male to ¼ female; ¼ male to 3/8 female; 3/8 male to ½ female; ¾ male to ½ female

A140. Socket Set, Socket Wrench, Wheel Bearing Locknut. The set shall consist of 6 point,
Material: Steel
Finish: Chrome
Drive Size: 3/4 inch
Quantity: 19
Included Sizes: 6 Point: 2-3/32, 2-3/8, 2-9/16, 3, 3-¼, 3-½, 3-7/8, 4, 4-1/8, 4-3/8 and 4-7/8 inches
8 Point: 2-3/8, 2-9/16, 3, 3-¼ 3- ½, 3-7/8, 4-3/8 and 4-7/8 inches

A141. Socket Set, Impact Wrench, Metric, ¾" Drive, Regular. Shall be a set of impact sockets,.
ASME B107.110
Type: Impact
Material: Steel
Finish: Black Oxide
Drive Size: 3/4 inch
Number of Points: 6
Socket Depth: Standard
Quantity: 13
Included Sizes: 17mm, 19mm, 20mm, 22mm, 24mm, 27mm, 30mm, 31mm, 34mm, 36mm, 38mm, 40mm and 46mm

DISTRIBUTION STATEMENT A: Approved for public release, distribution is unlimited.

A142. Soldering Gun.
Power Source: Electric, Corded
Voltage: 120 V, 60 Hz
Output: Variable 150-400 watts minimum range
Maximum Tip Temperature: 1000 degrees
Tip Type: 1/4 inch pyramid
Handle: Pistol Style, Trigger controlled
Features: Built in light
Includes: Carrying Case



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A143. Tool, Splitting Nut. .
Material: Steel forged frame, hardened cutter
Finish: corrosion resistant
Head Size: ¾ inch hex Length: 4-1/2 inches minimum
Capacity: variable up to ½ inch nuts Features:
Replaceable hardened steel chisel point

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A144. Tape, Measuring, 25'.
Blade Length: 25 feet minimum
Blade Width:1 inch minimum to 1-1/2 inches maximum Graduations: foot, inch, 1/16 inch intervals
Blade Standout: 11 feet minimum
Case: High impact with cushion grip; 7 by 4 by 2 inches nominal

A145. Test Kit, Radiator Pressure. To pressure-testing vehicle radiator caps and radiators to detect leaks.
Testing Range: 17-30 pounds
Includes: Manual air pump; pressure gage; 12 inch hose attached to test head; adapter for attachment to "B" size filler heads; pressure release bar; carrying case

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A146. Tester, Antifreeze Solution. Type: Refractometer
Fluids: Ethylene glycol, propylene glycol, and battery acid specific gravity
Material: Steel body
Scales: Fahrenheit and Celsius
Features: Separate scales for each fluid, automatic temperature compensation (No Photo)

DISTRIBUTION STATEMENT A: Approved for public release, distribution is unlimited.

A147. Tool Kit, Blind Fastener Installation.

Includes one each of the following:

Hand Hydraulic Riveter

Pneumatic Riveter with 3/8" male quick disconnect fitting

Cordless Electric Riveter with battery pack and charger

Fittings for compatibility with the following: Cherrymax© and Huck© clinch rivets from 3/32" to 1/8"; pop rivets 1/8" through ¼"; ¼"automotive split ("T") rivets; 3/16" and ¼" Monobolts©; 3/16" and ¼" Bulb-Tite© fasteners; 1/8", 5/32", and 3/16" NASA 1400A and 1900S fasteners; 5/32" and 3/16" MS90353 fasteners; and pull-thru nut plate rivets and blind rivet nuts (Rivnut©), thread sizes 5 mm, 6 mm, 8 mm, 10 mm, 6-32, 8-32, 10-32, 10-24, ¼-20, ¼-28, 5/16-18, 5/16-24 and 3/8-16

Adapters: Right angle and offset pulling that are interchangeable with all straight pull heads. Carrying Case: capable of housing all items in the set Riveter Pull Force: 4000 pounds over stroke of 5/8 inch minimum (Photo not available)

A148. Tool Kit, Cutting, Abrasive, Pneumatic.

Arbor Size: 3/8 inch

Capacity: 3 inch diameter wheels

Speed: 18,000 RPM minimum

Features: rear exhaust, built-in power regulator, lever throttle, 1/4 inch NPT air inlet

Kit Includes: Pneumatic cut-off tool with double reinforced abrasive cutoff wheels; Carrying Case

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A149. Tool Kit, Large Hose End Crimping.

Crimping Hose Diameter: ¾ inches through 1-1/4 inches

Includes: Crimper; 6 inch caliper; Hose end holder; Carrying case

A150. Tool Kit, Small Hose End Crimping.

Crimping Capacity: connectors on ¼ inch through ¾ inch diameter hoses

Includes: Crimper; Hacksaw with blade; 4 inch caliper; Hose end holder; ½ inch wrench; Teflon Tape; 3 inch clamp; Carrying case

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A151. Tool Kit, Screw Insert. The kit shall contain self-tapping threaded inserts for repair of stripped threaded holes in steel and aluminum with a variety of sizes and thread types, both inch and metric, as well as the requisite drill bits and insertion tools.

Type: Self-tapping threaded inserts Includes:

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Inserts, Inch sizes: (12 ea) ¼-20; (6 ea) ¼-28; (12 ea) 5/1618; (6 ea) 5/16-24; (12 ea) 3/8-16; (6 ea) 3/8-24; (12 ea) 7/16-14; (6 ea) 7/16-20; (12 ea) ½-13; (6 ea) ½-20; (6 ea) 9/16-12; (3 ea) 9/16-18; (6 ea) 5/8-11; (6 ea) ¾-10

Inserts, Metric sizes: (12 ea) 6mm-1.0; (12 ea) 8mm-1.25; (12) 10mm-1.5; (12) 12mm-1.75; (6) 14mm-2

Drill Bit sizes: (1 ea) 23/64 inch; (1 ea) S; (1 ea) 29/64 inch; (1 ea) 7/16 inch; (1 ea) 17/32 inch; (1 ea) 39/64 inch; (1 ea) 19/32 inch; (1 ea) 45/64 inch; (1 ea) 11/16 inch; (1 ea) 25/32 inch; (1 ea) 49/64 inch; (1 ea) 55/64 inch; (1 ea) 1-1/32 inch; (1 ea) 1-1/64 inch

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Bolt Gage
Tapping Fluid and Carrying Case

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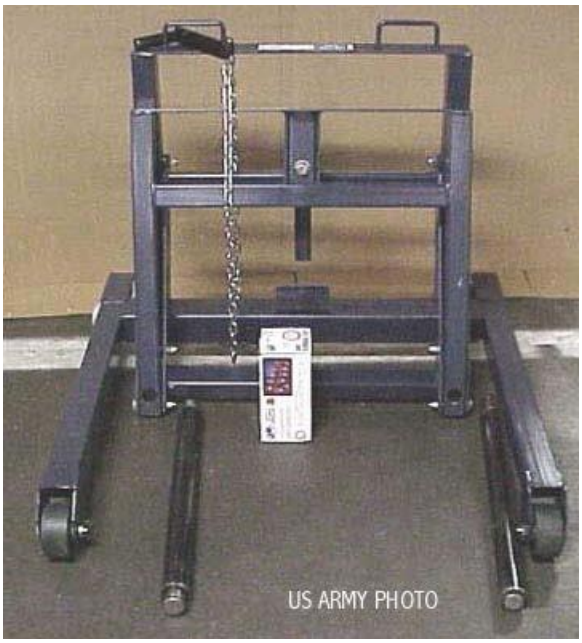
A152. <u>Tool Kit, Tire Service</u>. Shall consist of the items listed below:
Includes: (2 ea) Dual Foot Pressure Gauge, 10150 pounds in 2 pound increments; (1 ea) 4 in 1 Tire Valve Core Repair Tool; (1 ea) Snap-In Valve Installation Tool; (1 ea) Valve Fishing Tool; (1 ea) Screwdriver, Valve Core; (1 ea) Hammer, 18 inch Bead Breaker; (1 ea) Hammer, 32 inch Bead Breaker; (1 ea) Tire Iron, 37 inch
Lock Ring Remover; (1 ea) Tire Iron, Mount-
Demount Spoon, 24 inch; (1 ea) Tire Iron, Mount-
Demount Spoon, 30 inch; (1 ea) Tire Iron, Mount-
Demount Tool, 52 inch; (1 ea) Tire Iron, Mount-Demount Tool, 49-1/2 inch; (1 ea) Tire Iron, Offset Mount Bar 27 inch; (1 ea) Bead Breaker, Manual; (1 ea) Bead Breaker, Hydraulic; (1 ea) Air-Hydraulic Pump (for bead breaker); (1 ea) #2 Reamer ¼ inch, 9 inches long; (1 ea) Truck Valve Insert Tool, 7 ¼ inches Long; (1 ea) Knife, 4 inches Long; (2 ea) Tire Thread Depth
Gauge; (1 ea) Carrying Case

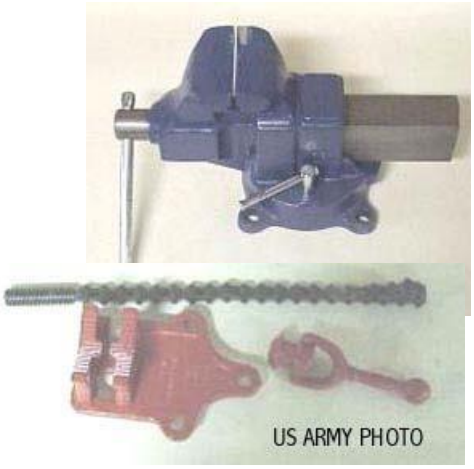
A153. <u>Trestle, Hoist, Portable, 7-Ton</u>.
ANSI/ASME PALD
Collapsed Height: 20 inches maximum
Extended Height: 30 inches minimum
Capacity: 7 tons minimum
Height Settings: 12
Material: Steel Features:
4-point base

DISTRIBUTION STATEMENT A: Approved for public release, distribution is unlimited.

A154. Truck, Lift, Wheel.
Minimum Capacity: 1500 lbs
Safety Proof Load: 150% rated capacity
Tire size capacity: single and double wheel assemblies in ranging from 7.00 x 16 to no less than 14.00 x 24
Vertical lift: 4.25 inches minimum
Tilt: 4 degrees minimum
Features: Wheel Retaining Device, Hydraulic Operation, no less than 3 load carrying casters



A155. Vise, Machinist's, 4".
Base: Swivel
Overall dimensions: 19 x 8.5 x 13.5 inches
Jaw Width: 4 inches
Jaw Capacity: 6-1/2 inches minimum
Throat Depth: 4 inches minimum Features: Replaceable jaw faces A156. Vise, Pipe, Chain-Style.
Type: Bottom Screw Bench Chain Vise
Handle: Crank Type anchored to Base
Base Material: Cast Iron
Capacity: 1/8 to 4 inches
Jaws: Toothless, neoprene-coated

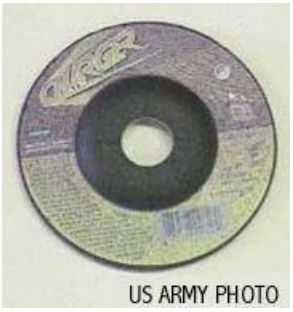


DISTRIBUTION STATEMENT A: Approved for public release, distribution is unlimited.

A157. Wheel, Abrasive, Fine Grit. Shall be an aluminum oxide straight grinding wheel, fine grit, 7” diameter x 1” thick, with a 0.625” arbor hole
(or appropriate adapter). (For use with item A71)

A158. Wheel, Abrasive, Coarse Grit. Shall be an aluminum oxide straight grinding wheel, coarse grit, 7” diameter x 1” thick, with a 0.625” arbor hole (or appropriate adapter). (For use with item A71)

A159. Wheel, Abrasive, Type 27. Shall be a zirconium aluminum Type 27 depressed center grinding disc for use with a right-angle sander/grinder. Shall have a 4-1/2” diameter and a 5/8” arbor hole. (For use with item A117)



A160. Wheel, Abrasive, Type 29. Shall be zirconium aluminum disc Type 29 depressed center abrasive flap disk for use with a right-angle sander/grinder. It shall have a 4” diameter and a 5/8” arbor hole. The abrasive shall be 36 grit. (For use with item A117)

A161. Wrench, Impact, Electric, ¾” Square Drive, 400 Ft-Lb.
Type: Reversible
Power: 120 V AC/DC Drive
Size: 3/4 inches
Speed: 0-1800 impacts per minute (IPM)
Maximum Torque: 434 ft-lbs minimum
No Load Speed: 1600 RPM
Bearings: Ball and Roller
Features: Side Handle, Detent Pin, AC/DC Switch, forward-reverse rocker switch, 8 foot minimum length cord with 2-prong plug (Photo not available.)

DISTRIBUTION STATEMENT A: Approved for public release, distribution is unlimited.

A162. Wrench Set, Flare Nut, Inch. Shall be a set of 6-point flare nut wrenches as follows
ASME B107.100
Type: Flare Nut
Material: Steel
Finish: Chrome
Number of Points: 6
Quantity: 7
Includes Sizes: 1/4 x 5/16 inch; 3/8 x 7/16 inch; ½ x 9/16 inch;
5/8 x 11/16 inch; ¾ x 13/16 inch; ¾ x 1 inch; 7/8 x 1-1/8 inch

A163. Wrench Set, Box, Inch. Shall be a set of 12-point box end wrenches as follows:
ASME B107.100
Type: Double Head Box, Inch
Material: Steel
Finish: Chrome
Number of Points: 12
Offset: 10 to 20 degrees
Quantity: 15
Included Sizes: 3/8 x 7/16 inch; 7/16 x ½ inch; ½ x 9/16 inch; 9/16 x 5/8 inch; 5/8 x 11/16 inch; 11/16 x ¾ inch; ¾ x 13/16 inch; 7/8 x 15/16 inch; 15/16 x 1 inch; 1 x 1-1/16 inch; 1-1/16 x 1-1/4 inch; 1-1/8 x 1-3/16 inch; 1-1/4 x 1-5/16 inch; 1-3/8 x 1-7/16 inch; 1-1/2 x 1-5/8 inch

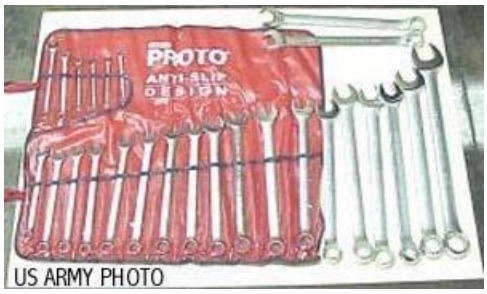
A164. Wrench Set, Box, Metric. Shall be a set of 12point box end wrenches as follows.
ASME B107.100
Type: Double Head Box, Metric
Material: Steel
Finish: Chrome
Number of Points: 12
Offset: 10 to 20 degrees
Quantity: 11
Included Sizes: 10 mm x 11 mm; 12 mm x 14 mm; 13 mm x 15 mm; 14 mm x 15 mm; 16 mm x 18 mm; 17 mm x 19 mm; 18 mm x 21 mm; 19 mm x 22 mm; 22 mm x 24 mm; 27 mm x 30 mm; 30 mm x 32 mm

A165. Wrench Set, Combination, Inch. Shall be a set of combination open end and box end wrenches as follows:
ASME B107.100
Type: Combination, Inch
Material: Steel
Finish: Chrome

DISTRIBUTION STATEMENT A: Approved for public release

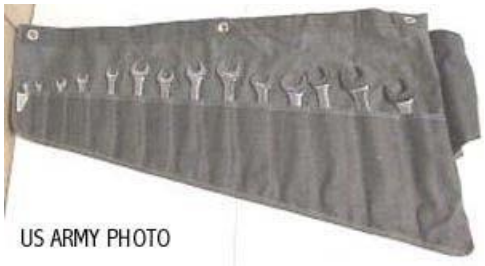
Number of Points: 12
Offset: 10 to 20 Degrees
Quantity: 26
Included Sizes: ¼, 5/16, 3/8, 7/16, ½, 9/16, 5/8, 11/16, ¾, 13/16, 7/8, 15/16, 1, 1-1/16, 1-1/8, 1-¼, 1-5/16, 1-3/8, 1-7/16, 1-½, 1-5/8, 1-11/16, 1-¾, 1-13/16, 1-7/8, and 2 inches

A166. Wrench Set, Combination, Metric. Shall be a set of combination open end and box end wrenches as follows:



ASME B107.100
Type: Combination, Metric
Material: Steel
Finish: Chrome
Number of Points: 12
Offset: 10 to 20 Degrees
Quantity: 26
Included Sizes: 7 mm, 8 mm, 9 mm, 10 mm, 11 mm, 12 mm, 13 mm, 14 mm, 15 mm, 16 mm, 17 mm, 18 mm, 19 mm, 20 mm, 21 mm, 22 mm, 23 mm, 24 mm, 25 mm, 26 mm, 27 mm, 28 mm, 29 mm, 30 mm, 32 mm, 36 mm

A167. Wrench Set, Open-End, Metric. Shall be a set of open-end wrenches as follows:



ASME B107.100
Type: Open-End, Double Head, Metric
Material: Steel
Finish: Chrome
Offset: 10 to 20 degrees
Quantity: 14
Included Sizes: 6 mm x 8 mm; 7 mm x 9 mm; 10 mm x 11 mm; 12 mm x 14 mm; 13 mm x 15 mm; 16 mm x 18 mm; 17 mm x 19 mm; 20 mm x 22 mm; 21 mm x 23 mm; 22 mm x 24 mm; 24 mm x 26 mm; 25 mm x 27 mm; 28 mm x 30 mm; 30 mm x 32 mm

A168. Wrench Set, Open End, Inch. Shall be a set of open end wrenches as follows:

ASME B107.100
Type: Open-End, Double Head, Inch
Material: Steel
Finish: Chrome
Offset: 10 to 20 degrees
Quantity: 13
Included Sizes: 3/8 x 7/16 inch; 7/16 x ½ inch; ½ x 9/16 inch; 5/8 x ¾ inch; 11/16 x ¾ inch; 13/16 x 7/8 inch; 15/16 x 1 inch; 1-1/16 x 1-1/8 inch; 1-1/4 x 1-5/16 inch; 1-3/8 x 1-7/16 inch; 1-1/2 x 1-5/8 inch; 1-11/16 x 1-13/16 inch; 1-7/8 x 2 inch

DISTRIBUTION STATEMENT A: Approved for public release, distribution is unlimited.

A169. Wrench Set, Flare Nut, Metric. Shall be a set of six flare nut wrenches as follows.

ASME B107.100
Type: Flare Nut, Metric
Material: Steel
Finish: Chrome
Number of Points: 6
Quantity: 6
Included Sizes: 9 mm x 11 mm; 10 mm x 12 mm; 13 mm x 14 mm; 15 mm x 17 mm; 16 mm x 18 mm; 19 mm x 21 mm

A170. Wrench Set, Master, Impact Wrench, 3/8" & ½" Drive.

Material: Steel
Finish: Black Oxide Quantity: 97 Includes:

1/2 inch drive:

- Electric Impact Wrench, reversible, 300 ft-lbs torque, 120 V, 60 Hz, single-phase
- Pneumatic Impact Wrench, reversible, ¼ inch NPT inlet, handle exhaust, 400 to 600 ft-lbs torque, includes a male 3/8 inch quick disconnect fitting
- Double-End Socket: 3/4 x 13/16 inch
- Extensions: 3 inch; 6 inch; 10 inch
- Universal Joint
- Adapter: 3/8 inch male to 1/2 inch female
- Inch Impact Sockets, 6 point, standard length: ¼, 5/16, 3/8, 7/16, ½, 9/16, 5/8, 11/16, and 3/4 inch
- Metric Impact Sockets, 6 point, standard length: 10mm, 11mm,12mm, 13mm, 14mm, 15mm, 16mm, 17mm, 18mm and 19mm
- Inch Impact Sockets, 6 point, standard length: 3/8, 7/16, ½, 9/16, 5/8, 11/16, 3/4, 13/16, 7/8, 15/16, 1, and 1-1/16 inch
- Metric Impact Sockets, 6 point, standard length: 12mm, 13mm, 14mm, 15mm, 16mm, 17mm, 18mm, 19mm, 21mm, 22mm, 24mm and 27mm
- Inch Impact Sockets, 6 point, deep length: 3/8, 7/16, ½, 9/16, 5/8, 11/16, 3/4, 13/16, 7/8, 15/16, 1, and 1-1/16 inch
- Metric Impact Sockets, 6 point, deep length: 12mm, 13mm, 14mm, 15mm, 16mm, 17mm, 18mm, 19mm, 21mm, 22mm, 24mm and 27mm

3/8 inch drive:

- Extensions: 3 inch; 6 inch
- Universal Joint
- Inch Impact Sockets, 6 point, deep length: 1/4, 5/16, 3/8, 7/16, 1/2, 9/16, 5/8, 11/16, and 3/4 inch
- Metric Impact Sockets, 6 point, deep length: 10mm, 11mm, 12mm, 13mm, 14mm, 15mm, 16mm, 17mm, 18mm and 19mm

DISTRIBUTION STATEMENT A: Approved for public release, distribution is unlimited.

A171. Wrench Set, Impact Socket, ¾" Drive, Inch. Shall be a set of standard-length 6-point, ¾" drive impact sockets.

Material: Steel
Finish: Black Oxide
Drive Size: ¾ inch
Quantity: 15
Includes: 6.5 inch extension; 12.5 inch extension; Impact Sockets, 6 point, standard length: 9/16, 5/8, 11/16, 3/4, 13/16, 7/8, 1, 1-1/16, 1-1/8, 1-1/4, 1-5/16, 1-7/16 and 1-1/2 inch

A172. Wrench, Adjustable, 18". ASME B107.100 (B107.8 Type I, Class 2)
Type: Standard, Adjustable
Length: 17.5 inch minimum
Jaw Capacity: 2-1/16 inches minimum
Material: Steel
Finish: Black Oxide
Handle: Tapered

A173. Wrench, Adjustable, Automotive, 15". Shall have a worm drive adjustment.
Type: Automotive, Adjustable
Length: 14.5 inch minimum
Jaw Type: Perpendicular to handle
Jaw Capacity: 3-5/8 inch minimum Jaw
Depth: 1-3/4 inch minimum
Material: Steel
Finish: Chrome

A174. Wrench, Adjustable, 10".
ASME B107.100 (B107.8 Type I, Class 2)
Type: Standard, Adjustable
Length: 9.5 inch minimum
Jaw Capacity: 1-1/8 inch minimum
Material: Steel
Finish: Black Oxide or Chrome

A175. Wrench, Adjustable, Automotive, 11". Shall have a worm drive adjustment. Type: Automotive, Adjustable
Length: 11 inch nominal
Jaw Type: Perpendicular to handle
Jaw Capacity: 3 inches nominal
Jaw Depth: 1 1/2 inches nominal
Material: Steel

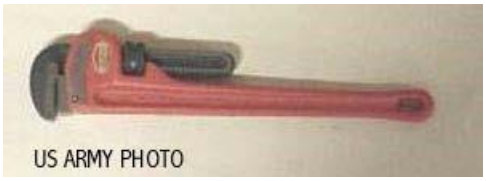
DISTRIBUTION STATEMENT A: Approved for public release, distribution is unlimited.

Finish: Chrome

A176. Wrench, Oil Filter. Shall be a pliers-style wrench for truck oil filters with a slip-joint handle providing a jaw opening range of 3-5/8" to 6". The jaws shall be provided with teeth to provide a positive grip, and the handles shall be cushioned. A177. Wrench, Oil Filter, Strap.

Type: Strap-type wrench
Range: All spin-on oil filters up to 6 inches
Material: Nylon strap
Width: 2 inch strap
Handle drive: 1/2 inch and 3/4 inch
Length: 5-3/4 inch cranking mechanism
(Photo not available.)

A178. Wrench, Pipe, 18".



Type: Straight Pipe Wrench
Jaw Capacity: 2 inch minimum
Length: 18 inch minimum
Material: Cast Iron i-beam handle; forged steel jaws
Jaw Type: Adjustable

A179. Wrench, Pipe, 10".

Type: Straight Pipe Wrench
Jaw Capacity: 1 inch minimum
Length: 10 inch minimum
Material: Cast Iron i-beam handle; forged steel jaws
Jaw Type: Adjustable

A180. Wrench Kit, Ratchet, Pneumatic, 3/8" Drive.
Power Source: Air
Maximum Torque: 45 foot pounds
Exhaust: 360 degree adjustable
Speed: Variable; Lever-style throttle
Accessories: 1/2 inch square drive attachment; 1/4 inch hex bit attachment; No 2 Phillips Bit; No 3 Phillips Bit; No 8 Flat Tip Bit; No 5 Flat Tip Bit; Impact Adapter 3/8 inch female to 1/2 inch male; male 3/8 inch ID quick disconnect fitting; carrying case
(Photo not available)

DISTRIBUTION STATEMENT A: Approved for public release, distribution is unlimited.

A181. Wrench, Torque, Dial, ¼" Drive, 30 In-Lb.
ASME B107.300
Length: 8 inch minimum
Drive Type: Fixed Drive
Drive Size: 1/4 inch
Capacity: 6-30 in-lbs minimum
Increments: 1 in-lb
Features: Square drive; non-ratcheting head; dial indicator, carrying case

US ARMY PHOTO

A182. Wrench, Torque, Dial, 3/8" Drive, 300 In-Lb.
Length: 8 inch minimum
Drive Type: Fixed Drive
Drive Size: 3/8 inch
Capacity: 60-300 in-lbs minimum
Increments: 5 inch pound
Features: Square drive; non-ratcheting head; dial indicator, carrying case

US ARMY PHOTO

A183. Wrench, Torque, Click, Ratcheting, ¾" Drive, 600 Ft-Lb.
ASME B107.300, Type 2, Class A, Style 2, Design A
Length: 42 inches
Type: Ratcheting, Click Style
Drive Size: 3/4 inch
Capacity: 120-600 ft-lbs minimum
Increments: 10 ft-lb minimum
Indicator: audible click
Features: Knurled handle; carrying case

US ARMY PHOTO

A184. Wrench, Torque, Click, Ratcheting, 3/8" Drive, 75 Ft-Lb.
ASME B107.300, Type 2, Class A, Style 2, Design A
Length: 16 inches
Type: Ratcheting, Click Style
Drive Size: 3/8 inch
Capacity: 5-75 ft-lbs minimum
Increments: 1/2 ft-lb minimum
Indicator: audible click
Features: Knurled handle; carrying case

US ARMY PHOTO

A185. Wrench, Torque, Click, ½" Drive, 345 Nm. Shall be a click style torque-setting wrench with a micrometer dial marked in both INCH and Metric scales.
ASME B107.300, Type 2, Class A, Style 2, Design B
Length: 24 inches nominal

DISTRIBUTION STATEMENT A: Approved for public release, distribution is unlimited.

Type: Adjustable micrometer, dual scale
Scales: Metric and Inch
Drive Size: 1/2 inch
Capacity: 50-250 ft-lbs minimum; 47-332 Nm minimum
Increments: 1 ft-lb minimum
Indicator: audible and tactile
Features: Non-ratcheting head; comfort grip on handle; carrying

A186. Wrench, Torque, Click, ½" Drive, 250 Ft-Lb. Shall be a click style torque-setting wrench with a micrometer dial.
ASME B107.300, Type 2, Class A, Style 2, Design A
Type: Click-type adjustable micrometer
Length: 23.75 inches nominal (in case)
Drive Size: 1/2 inch
Capacity: 50-250 ft-lbs minimum
Increments: 1 ft-lb minimum
Indicator: audible click
Features: Ratcheting head; knurled handle; carrying case

A187. Wrench, Wheel Stud Nut, Geared Socket. Shall be a geared socket wrench for removing heavy-duty wheel stud nuts from truck rims.
Type: Geared Socket Wrench
Drive: 3/4 inch
Double End Socket capacity: 1-1/2 inch hex; 13/16 inch square
Solid Bar Handle: ¾ inch diameter x 20-1/2 inches long
Tubular Extension Handle: 1-1/8 inch diameter x 34-1/2 inches long

A188. Bar, Torque Wrench.
Material: Steel
Adjustable: 12-34 inches minimum
Capacity: 2400 ft-lbs at reaction distance of 6 inches; 450 ft-lbs at a reaction distance of 32 inches
Features: tubular steel handle with bar extension; used to provide reaction force for a torque multiplier

A189. Die set, Metal Stamping, Hand, Alphabetic. Character
Size: 5/16 inch
Shank Width: 7/16 inch
Shank Length: 2 3/4 inch
Depicted Text: A through Z
Depicted Symbol: Amperstand (&)
Language: English Tip
Type: Beveled
Shank Type: Square

DISTRIBUTION STATEMENT A: Approved for public release, distribution is unlimited.

Shank Material: Steel
Print Method: Direct
Type: Solid Hand Held Stamp
Quantity: 27 per set Carrying
case.

A190. Die Set, Metal Stamping, Hand, Alphabetic and Numeric.
Character Size: 3/16 inch Shank Width: 5/16 inch
Shank Length: 2 3/8 inch
Depicted Text: 0 through 8, A through Z
Depicted Symbol: Period
Language: English Tip
Type: Beveled
Shank Type: Square
Shank Material: Steel
Print Method: Direct
Type: Solid Hand Held Stamp
Quantity: 36 per set
A carrying case shall be included.

A191. Gage Stock Set, Thickness.
Overall Length: 12 inches nominal
Overall Width: 1/2 inches nominal
Material: Steel
Thickness sizes: 0.0015, 0.002, 0.003, 0.004, 0.005, 0.006, 0.007, 0.008, 0.010, and 0.015 inches
Features: No less than 10 gages including the sizes above

A192. Multiplier, Torque, Crank-Operated**.**
Maximum Torque Output: 2000 ft-lb with 15 ft-lb maximum input
Accuracy: +/- 2% of actual output torque from 400 ft-lb to 2000 ft-lb
Torque Direction: Clockwise and Counterclockwise
Torque Ratio: 3.6 to 1
Input Drive: 3/8 inch square female
Output Drive: 3/4 inch square male
Head Thickness: 4 3/8 inches
Head Diameter: 3 17/32 inches
Overall Length: 24 inches
Operating Temperature: -20 to +125 degrees minimum
Includes: protractor measuring 0 to 180 degrees minimum graduated in 1 degree increments; input crank handle with 3/8 inch square drive; 6-inch long 3/4 inch square output drive; carrying case

DISTRIBUTION STATEMENT A: Approved for public release, distribution is unlimited.

A193. Plate, Bolster, 36 x 36. Shall be suitable for use as cribbing under a 30-ton bottle jack when used on unpaved surfaces.
Material: Non-metallic
Length: 36 inches
Width: 36 inches
Temperature Range: -25 degrees F to 125 degrees F minimum
Features: Resistant to corrosion, ozone, ultraviolet light, deformation, fracturing, splintering, water, petroleum products, detergents, mold, and mildew
Load Maximum: 50 pounds per square inch
Handhold Openings: 6 inches by 3 inches
Use with: 30 ton bottle jack
(Photo not available.)

A194. Pliers, Multiple Position.
ASME B107.500 (B107.23), Type I, Class 1, Style A
Type: Tongue and Groove
Length: 11 inch minimum
Capacity: 2.1 inches minimum
Jaw Length: 1.44 inches minimum
Jaw Thickness: 0.31 inches minimum
Adjustments: 7

.

A195. Pliers, Multiple Position, Electrical Connector.
ASME B107.500 (B107.27)
Length: 8.75 inches minimum
Jaw Thickness: 3/8 inch
Jaw Shape: Curved
Adjustments: 3

.

A196. Puller Kit, Universal. Shall be a light duty kit for installing and removing bearings, bushings, and driver plugs with engaging threaded adapters.
Features: Threaded shaft; housing; tension nut; (2) tension nut handles; (2) adapter sleeves; thrust bearing; (9) engaging threaded adapters; puller attachment
Function: Install and remove bearings, bushings, and driver plugs
Capacity: 1/2 to 1-1/16 inch internal diameter bearings and bushings; 1/2 to 1-1/2 inch internal diameter blind hole bearings and bushings
Includes: Storage Case

DISTRIBUTION STATEMENT A: Approved for public release, distribution is unlimited.

A197. [NOT USED]

A198 Wrench, Set, Socket Wrench, 1" Drive, Inch, Regular. Shall include the following:
ASME B107.110
Material: Steel
Drive Size: 1 inch
Number of Points: 12
Finish: Chrome
Quantity: 22
Includes one each of the following:
Ratchet: Reversing, Round Head 26 inch long, 72 teeth minimum
Extensions: 17 inch
Handle: Sliding T Bar, 28-1/2 inches long
Sockets: 1-7/16, 1-½, 1-5/8, 1-11/16, 1-13/16, 1-7/8, 2, 2-1/8, 2-1/4, 2-3/16, 2-1/2, 29/16, 2-5/8, 2-¾, 2-15/16, 3 and 3-1/8

A199. Wrench, Pipe, 36".

Type: Straight Pipe
Jaw Capacity: 5 inches
Overall Length: 36 inches
Handle Material: Aluminum
Handle Type: I-Beam
Jaw Type: Standard with Full Floating hook
Jaw Material: Forged Steel

A200. Jack, Bottle, Hydraulic, Hand, 30 Ton.

Type: Hand Hydraulic
Capacity: 30 tons minimum
Base: Steel; drilled and ported to accept gauge
Extended Height: 16 inches minimum
Retracted Height: 11-1/8 inches maximum
Features: Self-contained; solid plunger; integral pump; ram; reservoir; removable pump handle

A201. Blow Gun, Extended, Air. Shall have an extension with a nominal bend of 36-degrees and a nominal length of 48 inches.
OSHA 1910.95; OSHA 1910.242B
Maximum PSI: 150
Air Inlet: 1/4 inch

DISTRIBUTION STATEMENT A: Approved for public release, distribution is unlimited.

Length: 48 inches
Tip Angle: 45 degrees
Features: Metal safety tip; pistol grip

US ARMY PHOTO

Crowfoot attachments A202 thru A229 shall be ASME B107.100 (B107.21) compliant, chrome finish. The illustration shown in A202 pictorial represents all sizes.

A202. Crowfoot Attachment, Socket Wrench. Shall have 1/2" female square drive with locking hole to keep crowfoot engaged on extension and 20 Millimeter (20MM) open end wrenching surface.

A203. Crowfoot Attachment, Socket Wrench. Shall have 1/2" female square drive with locking hole to keep crowfoot engaged on extension and 21MM open end wrenching surface.

A204. Crowfoot Attachment, Socket Wrench. Shall have 1/2" female square drive with locking hole to keep crowfoot engaged on extension and 22MM open end wrenching surface.

A205. Crowfoot Attachment, Socket Wrench. Shall have 1/2" female square drive with locking hole to keep crowfoot engaged on extension and 23MM open end wrenching surface.

A206. Crowfoot Attachment, Socket Wrench. Shall have 1/2" female square drive with locking hole to keep crowfoot engaged on extension and 24MM open end wrenching surface.

A207. Crowfoot Attachment, Socket Wrench. Shall have 1/2" female square drive with locking hole to keep crowfoot engaged on extension and 25MM open end wrenching surface.

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A208. Crowfoot Attachment, Socket Wrench. Shall have 1/2” female square drive with locking hole to keep crowfoot engaged on extension and 15/16 inch open end wrenching surface.

A209. Crowfoot Attachment, Socket Wrench. Shall have 1/2” female square drive with locking hole to keep crowfoot engaged on extension and 1 inch open end wrenching surface.

A210. Crowfoot Attachment, Socket Wrench. Shall have 1/2” female square drive with locking hole to keep crowfoot engaged on extension and 1-1/16 inch open end wrenching surface.

A211. Crowfoot Attachment, Socket Wrench. Shall have 1/2” female square drive with locking hole to keep crowfoot engaged on extension and 1-1/8 inch open end wrenching surface.

A212. Crowfoot Attachment, Socket Wrench. Shall have 1/2” female square drive with locking hole to keep crowfoot engaged on extension and 1-3/16 inch open end wrenching surface.

A213. Crowfoot Attachment, Socket Wrench. Shall have 1/2” female square drive with locking hole to keep crowfoot engaged on extension and 1-1/4 inch open end wrenching surface.

A214. Crowfoot Attachment, Socket Wrench. Shall have 1/2” female square drive with locking hole to keep crowfoot engaged on extension and 1-5/16 inch open end wrenching surface.

A215. Crowfoot Attachment, Socket Wrench. Shall have 1/2” female square drive with locking hole to keep crowfoot engaged on extension and 1-3/8 inch open end wrenching surface.

A216. Crowfoot Attachment, Socket Wrench. Shall have 1/2” female square drive with locking hole to keep crowfoot engaged on extension and 1-7/16 inch open end wrenching surface.

A217. Crowfoot Attachment, Socket Wrench. Shall have 1/2” female square drive with locking hole to keep crowfoot engaged on extension and 1-1/2 inch open end wrenching surface.

A218. Crowfoot Attachment, Socket Wrench. Shall have 1/2” female square drive with locking hole to keep crowfoot engaged on extension and 1-9/16 inch open end wrenching surface.

A219. Crowfoot Attachment, Socket Wrench. Shall have 1/2” female square drive with locking hole to keep crowfoot engaged on extension and 1-5/8 inch open end wrenching surface.

A220. Crowfoot Attachment, Socket Wrench. Shall have 1/2” female square drive with locking hole to keep crowfoot engaged on extension and 1-11/16 inch open end wrenching surface.

A221. Crowfoot Attachment, Socket Wrench. Shall have 1/2” female square drive with locking hole to keep crowfoot engaged on extension and 1-3/4 inch open end wrenching surface.

A222. Crowfoot Attachment, Socket Wrench. Shall have 1/2” female square drive with locking hole to keep crowfoot engaged on extension and 1-13/16 inch open end wrenching surface.

DISTRIBUTION STATEMENT A: Approved for public release, distribution is unlimited.

A223. Crowfoot Attachment, Socket Wrench. Shall have 1/2” female square drive with locking hole to keep crowfoot engaged on extension and 1-7/8 inch open end wrenching surface.

A224. Crowfoot Attachment, Socket Wrench. Shall have 1/2” female square drive with locking hole to keep crowfoot engaged on extension and 2 inch open end wrenching surface.

A225. Crowfoot Attachment, Socket Wrench. Shall have 1/2” female square drive with locking hole to keep crowfoot engaged on extension and 2-1/8 inch open end wrenching surface.

A226. Crowfoot Attachment, Socket Wrench. Shall have 1/2” female square drive with locking hole to keep crowfoot engaged on extension and 2-1/4 inch open end wrenching surface.

A227. Crowfoot Attachment, Socket Wrench. Shall have 1/2” female square drive with locking hole to keep crowfoot engaged on extension and 2-3/8 inch open end wrenching surface.

A228. Crowfoot Attachment, Socket Wrench. Shall have 1/2” female square drive with locking hole to keep crowfoot engaged on extension and 2-7/16 in open end wrenching surface.

A229. Crowfoot Attachment, Socket Wrench. Shall have 1/2” female square drive with locking hole to keep crowfoot engaged on extension and 2-1/2 inch open end wrenching surface.

Revision History

07/24/2014 – Initial Release

08/29/2018 – Revision A

10/02/2024 – Revision B
- Item A186, changed “Non-ratcheting head” to “Ratcheting head”
- Added Revision History section to track when revisions were made

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