

DFP TRI-012

TOOL KIT, COMMON REMOTE OPERATING WEAPON SYSTEM

1. Scope. This tool kit provides the necessary components to repair and maintain the Common Remote Operating Weapon System.

Abstract. Common Remote Operating Weapon System (CROWS) Tool kit is specifically organized to provide the CROWS repairman the tools needed to maintain and repair the CROWS. The general design and layout of the tool kit has been specified to the degree that is required to assure that the kit serves the daily life style and work needs of the individual repairman. The kit consists of a tool bag and a set of various maintainer type hand tools. The usual operating procedure will be to transport the bag to the work site, open it, remove the tools on an "as required" basis and replace the tool in the bag when the maintenance task is completed.

3 REQUIREMENTS

3.1 Preproduction Verification. When specified, the contractor shall furnish one or more set for preproduction verification inspection. The sets submitted shall be in accordance with the requirements of this Specification. The approved preproduction sample and the production items shall be in accordance with the terms of the contract. Approval of the preproduction verification shall not relieve the contractor of the responsibility to furnish equipment in accordance with the requirements of this Purchase Description. All items supplied under this contract shall be identical to the preproduction verification sample.

3.2 Illustrations. Illustrations and photographs are provided for information only. The products illustrated do not necessarily meet the stated requirements, nor are they intended to be an endorsement of a specific product or manufacturer. Offers are cautioned that they are to meet all of the requirements stated in this purchase description.

3.3 Industrial quality tools. All components supplied with this set shall be industrial quality. For the purposes of this procurement, the term "industrial quality tools" versus household use tool or general purpose tool is defined as tools commercially marketed and manufactured for constant, rigorous, industrial or professional environment use, and that have demonstrated market acceptance. Industrial quality tools are used primarily by skilled professionals and technicians in such areas as machine shops, automotive maintenance and repair facilities, aircraft maintenance and repair facilities, industrial automotive assembly plants, fleet maintenance facilities, and airline service facilities. The tools will 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. Industrial quality is demonstrated by evidence of substantial sales to industrial customers. 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 marketing terms for which there is no generally accepted definition. A claim that an item is manufactured to an industry consensus standard is also insufficient to establish industrial or professional quality. Industrial/professional quality tools shall have verifiable marketplace acceptance. When specified elsewhere in the solicitation or contract, offerors shall provide evidence of market acceptability.

3.3.1 Warranty. All components shall be warranted as stated in component descriptions 3.5.1 through 3.5.9 below. The offeror shall state the length and terms of the manufacturers' warranties in response to the solicitation. The warranties shall become part of the contract or delivery order.

3.4 Quantities. Quantities supplied shall be in accordance with those listed in the in component descriptions 3.5.1 through 3.5.9 below.

3.5 Component list. The items identified in paragraphs 3.5.2 thru 3.5.9 shall be loaded into the tool bag.

3.5.1. **BAG, TOOL CARRYING**: Collapsible, soft side, two handles for carrying (one on each side of the zippered opening, centered longitudinally), top opening with zipper closure, external pouches or pockets are acceptable but not required. Ability to fold flat with dimensions not larger than 14" long, 1 O" wide, 3" thick; when expanded bag cannot exceed 14" long, 1 O" wide and 11 " tall, bag must be able to carry 40 pounds, water resistant.

NOTE: the dimensions listed for the bag are the maximum dimensions. A smaller bag more suitable for the tool load is desirable. Warranty: Manufacturers. QUANTITY: 1 BAG

NSN: 5140-00-329-4306

3.5.2. **PLIERS, LONG NOSE**: 6± .5" long, professional quality, with cushion grips. Warranty: Lifetime. QUANTITY: 1 EA

NSN: 5120-00-293-3481

3.5.3. **SCREWDRIVER, FLAT TIP**: Tip: 1/4" wide, .033" thick, 8" blade length nominal. Warranty: Lifetime. QUANTITY: 1 EA

NSN: 5120-00-260-4837

3.5.4. **NUT, DRIVER**: Hexagon, Size: 7mm, 6" long blade length nominal. Warranty: Lifetime. QUANTITY: 1 EA

NSN: 5120-01-428-8318

3.5.5. **KEY, SOCKET HEAD SCREW**: L-shaped, ball end, size: 2mm; long arm length 2.5" - 4". Warranty: Manufacturers. QTY: 1 PG (10 ea/package)

NSN: 5120-01-045-4886

3.5.6. **KEY, SOCKET HEAD SCREW**: L-shaped, ball end, size: 3mm; long arm length 3.0" - 4". Warranty: Manufacturers. QTY: 1 PG (10 ea/package)

NSN: 5120-01-045-4888

3.5.7. **BRUSH, CAMEL HAIR**: Camel/horse hair bristles. Dimensions 1" wide. $\pm .5"$. $1\frac{1}{2}" \pm \frac{1}{2}"$ bristle length. $6" \pm 1"$ overall length. Warranty: Manufacturers. QTY: 1 EA

NSN: 7920-00-205-0565

3.5.9 **WRENCH, BOX AND OPENE END, COMBINATION**: Wrenching size: 19mm, 12pt, overall length: 11" nominal, finish: polished chrome or satin. Warranty: Lifetime. QTY: 1 EA

NSN: 5120-01-430-2983

4.0 QUALITY ASSURANCE PROVISIONS

4.1 General Provisions. The inspections (demonstration and/or examination) herein shall be performed to determine whether the item conforms to Section 3 of this Description for Purchase.

4.1.1 Classification of inspections. The inspection requirements specified herein are classified as follows:

- a. Product verification inspection (see 4.2)
- b. Conformance inspection (see 4.3)

4.1.2 Inspection conditions. Unless otherwise specified, all inspections shall be performed in accordance with the inspection conditions specified herein.

4.2 Product verification inspection. (Pre-production)

4.2.1 Submission. The contractor shall submit a product verification sample as specified in paragraph 3.1 for evaluation in accordance with the specified verification methods of paragraph 4.4.

4.2.2 Inspections to be performed. As determined by the Government, the product verification assemblies, components and test specimens may be subjected to any or all of the verification methods specified in paragraph 4.4.

4.2.3 Rejection. If any test assemblies, test specimens or test components fail to comply with any of the applicable requirements, the product verification sample shall be rejected. The Government reserves the right to terminate inspection upon any failure of a test assembly, specimen or component to comply with any of the requirements.

4.3 Conformance inspection.

4.3.1 Conformance. Conformance inspection shall be applied to production units being offered for acceptance under the contract. These inspections shall include all verifications listed in paragraph 4.4 and be limited to the examination of product to verify compliance with design requirements established during product verification.

4.3.2 Inspection lot formation. Lot formation shall be in accordance with Section 4 of MILSTD-1916.

4.3.3 Sampling plan determination. When required by contract or cited herein, attribute sampling inspections shall be conducted in accordance with MIL-STD-1916 using Verification Level I.

4.3.4 Rejection. Failure of any unit to pass any verification shall be cause for rejection of the lot.

4.4 Product characteristics and supporting data. Verify that each component contained within a tool set conforms to the requirements of paragraphs 3.5.1 through 3.5.9 inclusive. As applicable the following also applies to the tool kit components.

4.4.1 Industrial quality tools. Certify that the components supplied meet the requirements of paragraph 3.3.

4.4.2 Warranty. Verify that warranties are provided in accordance with paragraph 3.3.1.

4.4.3 Warranty literature. Verify that warranty literature is provided in compliance with paragraph 3.3.1.

4.5 Changes to materials, processes, or configuration. The contracting officer shall be informed of any changes to the materials, processes, configuration or other characteristic of the units. The contracting officer shall determine if the reported changes to items shall require the verifications of paragraph 4.4 to be repeated.

4.6 Conformance of subsequent production quantity. All products offered for acceptance throughout the life of the contract shall conform to all of the requirements of the contract. The Government reserves the right to re-verify conformance with requirements, at its own facility and at its own expense, at any time during the life of the contract and return to the contractor for warranty replacement such product that does not conform to the specified requirements.

5.0 PRESERVATION, PACKING AND PACKAGING

5.1 Packaging - Preservation, packaging, packing, unitization and marking furnished by the supplier shall provide protection for a minimum of one year, provide for multiple handling, redistribution and shipment by any mode and meet or exceed the following requirements.

5.1.1 Cleanliness - Items shall be free of dirt and other contaminants which would contribute to the deterioration of the item or which would require cleaning by the customer prior to use. Coatings and preservatives applied to the item for protection are not considered contaminants.

5.1.2 Preservation - Items susceptible to corrosion or deterioration shall be provided protection by means of preservative coatings, volatile corrosion inhibitors, desiccants, water-proof and/or water-vapor proof barriers.

5.1.3 Cushioning - Items requiring protection from physical and mechanical damage (e.g. fragile, sensitive, material critical) or which could cause physical damage to other items, shall be protected by wrapping, cushioning, pack compartmentalization, or other means to mitigate shock and vibration to prevent damage during handling and shipment.

5.2 Unit Package. A unit package shall be so designed and constructed that it will contain the contents with no damage to the item(s), and with minimal damage to the unit pack during shipment and storage in the shipping container, and will allow subsequent handling. The outermost component of a unit package shall be a container such as a sealed bag, carton or box.

5.3 Unit Package Quantity - Unless otherwise specified, the unit package quantity shall be one each part, set, assembly, kit, etc.

5.4 Intermediate Package - Intermediate packaging is required whenever one or more of the following conditions exist:

- a. the quantity is over one (1) gross of the same national stock number,
- b. use enhances handling and inventorying,
- c. the exterior surfaces of the unit pack is a bag of any type, regardless of size,
- d. the unit pack is less than 64 cubic inches,
- e. the weight of the unit pack is under five (5) pounds and no dimension is over

twelve (12) inches.

Intermediate containers shall be limited to a maximum of 100 unit packs, a net load of 40 pounds, or a maximum volume of 1.5 cubic feet, whichever occurs first.

5.5 Packing

5.5.1 Unit packages and intermediate packages not meeting the requirements for a shipping container shall be packed in shipping containers. All shipping containers shall be the most cost effective and shall be of minimum cube to contain and protect the items.

5.5.2 Shipping Containers - The shipping container (including any necessary blocking, bracing, cushioning, or waterproofing) shall comply with the regulations of the carrier used and shall provide safe delivery to the destination at the lowest tariff cost. The shipping container shall be capable of multiple handling, stacking at least ten feet high, and storage under favorable conditions (such as enclosed facilities) for a minimum of one year.

5.6 Unitization: Shipments of identical items going to the same destination shall be palletized if they have a total cubic displacement of 50 cubic feet or more unless skids or other forklift handling features are included on the containers. Pallet loads must be stable, and to the greatest extent possible, provide a level top for ease of stacking. A palletized load shall be of a size to allow for placement of two loads high and wide in a conveyance. The weight capacity of the pallet must be adequate for the load. The preferred commercial expendable pallet is a 40 x 48 inch, 4-way entry pallet although variations may be permitted as dictated by the characteristics of the items being unitized. The load shall be contained in a manner that will permit safe handling during shipment and storage.

5.7 Marking:

5.7.1 All unit packages, intermediate packs, exterior shipping containers, and, as applicable, unitized loads shall be marked in accordance with MIL-STD-129, Revision P, Change Notice 3, Date 29 Oct 2004 including bar coding. The contractor is responsible for application of special markings as discussed in the Military Standard regardless of whether specified in the contract or not. Special markings include, but are not limited to, Shelf-life markings, structural markings, and transportation special handling markings. The marking of pilferable and sensitive materiel will not identify the nature of the materiel. RFID tags are required for each shipping container and palletized load. If the item has Unique Identification Data markings, then each unit package also requires a RFID tag to include the UID.

5.7.2 Contractors and vendors shall apply identification and address markings with bar codes in accordance with this standard. For shipments moving to overseas locations and for mobile deployable units, the in-the-clear address must also include the host country geographic address and the APO/FPO address. The MSL will include both

linear and 2D bar codes per the standard. The DD Form 250 or the commercial packing list shall have barcoding applied as per Direct Vendor Delivery Shipments in the standard (except for deliveries to DLA Distribution Depots, e.g. New Cumberland, San Joaquin, Red River, Anniston). Packing lists are required in accordance with the standard, see paragraph 5.3.

5.7.3 Contractor to contractor shipments shall have the address markings applied to the identification marked side of the exterior shipping container or to the unitized load markings. The following shall be marked "FROM: name and address of consignor and TO: name and address of consignee".

5.7.4 Military Shipping Label. Military Shipping Label. Commercial software may be used to generate a Military Shipment Label / Issue Receipt Document (MSUIRRD) including the required Code 39 and 2D (PDF417) bar codes. However, the commercial software must produce labels/documents which comply with the requirements of MIL-STD-129P. Contractors shall insure that the "ship to" and "mark for" in-the-clear delivery address is complete including: consignee's name, organization, department name, office, building, room, street address, city, state, country code, & DODAAC. Two contractors have introduced a version of the MSL software that can be purchased by contractors. Both programs produce labels that appear to be in compliance with the requirements of MIL-STD- 129P. Contractors are MILPAC (<<http://milpac.com>>) and Easysoft Corporation (<<http://easysoftcorp.com>>)(Army developed software, for creating MSL/IRRD previously available to those with government contracts is no longer supported.)"

5.8 Heat Treatment and Marking of Wood Packaging Materials: All non-manufactured wood used in packaging shall be heat treated to a core temperature of 56 degrees Celsius for a minimum of 30 minutes. The box/pallet manufacturer and the manufacturer of wood used as inner packaging shall be affiliated with an inspection agency accredited by the board of review of the American Lumber Standard Committee. The box/pallet manufacturer and the manufacturer of wood used as inner packaging shall ensure tractability to the original source of heat treatment. Each box/pallet shall be marked to show the conformance to the International Plant Protection Convention Standard. Boxes/pallets and any wood used as inner packaging made of non-manufactured wood shall be heat-treated. The quality mark shall be placed on both ends of the outer packaging, between the end cleats or end battens; on two sides of the pallet. . Foreign manufacturers shall have the heat treatment of non-manufactured wood products verified in accordance with their National Plant Protection Organization's compliance program.

5.9 Quality Assurance: The contractor is responsible for establishing a quality system. Full consideration to examinations, inspections, and tests will be given to ensure the acceptability of the commercial package.

5.10. Supplemental Instructions. The unit package of each set shall be a box. Each component of the set shall be unit packaged per paragraphs 5.1 and 5.2. Mark each

component unit package with the nomenclature and the quantity. Each unit package may contain the quantity specified in Table 1. Segregation of items within in the set shall be accomplished by wraps, bags, dividers, boxes, container separations, tubes, skin or blister packs or other approved means. Items of a delicate nature shall not be subjected to damage from rugged items contained within the same package. Non-critical items of odd shapes or having sharp protrusions will not damage protective barriers. Items of dissimilar metals subject to damage from electrolytic action shall be insulated with suitable material to prevent forming of galvanic corrosion. A packing list is required for each set.