

SOCKET WRENCHES

DESCRIPTION

TOOLS

1. GENERAL

1.01 This section covers Bell System coded and noncoded socket wrenches.

1.02 This section is reissued for the following reasons. Since this is a general revision, revision arrows have been omitted. The Equipment Test List is not affected.

- (a) To rate the KS-20476, L1 nut driver Mfr Disc.
- (b) To add the Utica V-780 nut driver.
- (c) To rate the 254 wrench Mfr Disc.
- (d) To revise the format.

1.03 The following is a list of tools that have been Mfr Disc., with their replacement:

| TOOL | REPLACEMENT |
|--------------|---------------|
| 32 | 276 |
| 45B | — |
| 216B | 216C |
| 254 | — |
| 311 | 216C |
| 366 | 276 |
| 555A | 476A* |
| 775 | KS-21028, L1† |
| KS-6257 | AT-7119‡ |
| KS-20476, L1 | Utica V-780 |

*See Section 074-269-125.

†See Section 074-269-121.

‡See Section 074-269-130.¶

1.04 See the Tool Index for other Wrench practices.

2. DESCRIPTION OF TOOLS

2.01 **33:** The 33 tool (Fig. 1) is used on precision-type interrupters, vertical drive shafts, and for removing contact protection assembly on A- and B-type sequence switches. The dimensions for the 33 tool are: A = 11/32-inch, B = 1/2-inch, and C = 2-3/4 inches.

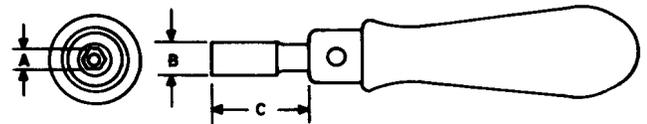


Fig. 1—33 Hex, Single-End Socket Wrench

2.02 **46 and 47:** The 46 and 47 (Fig. 2) are hex, single-end socket wrenches.

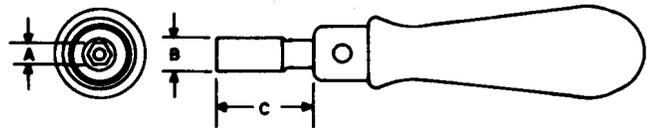


Fig. 2—46 and 47 Hex, Single-End Socket Wrenches

(a) **46:** The 46 tool is for general use. The dimensions for the 46 tool are: A = 3/8-inch, B = 17/32-inch, and C = 2-3/4 inches.

(b) **47:** The 47 tool is for use on 16-type drives and tape announcing machines. The dimensions for the 47 tool are: A = 1/2-inch, B = 23/32-inch, and C = 3-3/4 inches.

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SECTION 074-269-129

2.03 **102:** The 102 tool (Fig. 3) is for general use.

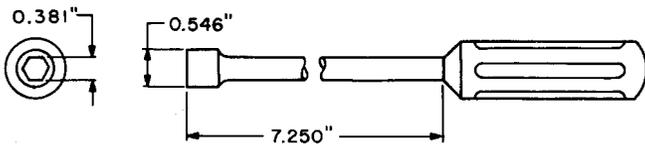


Fig. 3—102 3/8-Inch Hex, Single-End Socket Wrench

2.04 **110:** The 110 tool (Fig. 4) is equipped with a 9/32-inch socket on the "S" end and a 5/16-inch socket on the "L" end. The wrench is used on duplex motors.

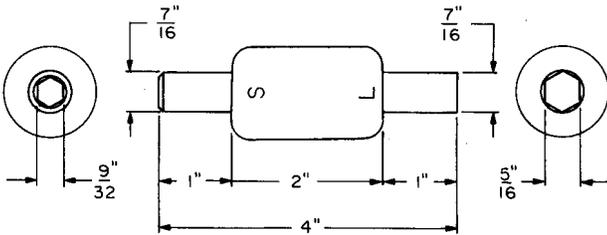


Fig. 4—110 Hex, Double-End Socket Wrench

2.05 **216C:** The 216C tool (Fig. 5) is equipped with a 3/8-inch socket on one end and a 7/16-inch socket on the other end. The 216C tool is used for placing fuses in cable terminals.

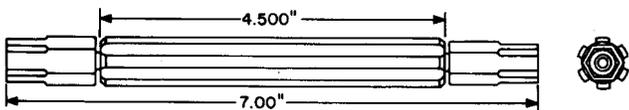


Fig. 5—216C Hex, Double-End Socket Wrench

2.06 **219:** The 219 tool (Fig. 6) is equipped with a 5/16-inch socket which forms part of the 221 tool. The 219 wrench is used on 51-type dial testers.

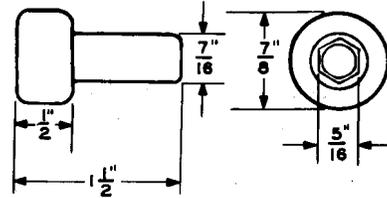


Fig. 6—219 Hex, Single-End Socket Wrench

2.07 **220:** The 220 tool (Fig. 7) is equipped with a 3/16-inch socket which forms part of the 221 tool.

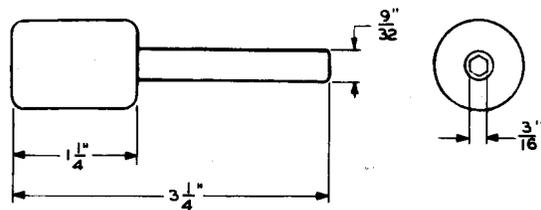


Fig. 7—220 Hex, Single-End Socket Wrench

2.08 **220B:** The 220B tool (Fig. 8) is equipped with a 5/16-inch socket. The 220B wrench is used on the 214A selectors of 1-type translators in the No. 4A Toll System.

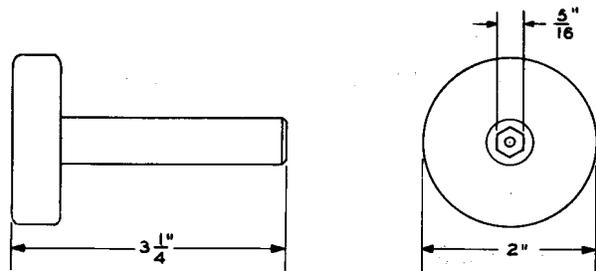


Fig. 8—220B Hex, Single-End Socket Wrench

2.09 254: The 254 tool (Fig. 9) (Mfr Disc.) is equipped with a 1/4-inch square socket. The 254 tool is used on 16-type drives, 1-type vertical drive shafts, and solenoid-type master switches.

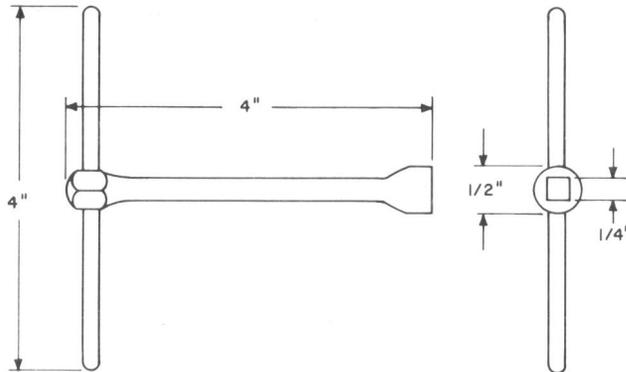


Fig. 9—254 Square, Single-End Socket Wrench

2.10 276: The 276 tool (Fig. 10) is equipped with a 1/4-inch socket. The 276 tool replaces the 32, 92, and 366 tools. The 276 tool is used on the 100-type interrupters and for removing mounting nuts of 18- and 19-type resistances which have not been wired.



Fig. 10—276 Hex, Single-End Socket Wrench

2.11 403A: The 403A tool (Fig. 11) is equipped with a 5/32-inch socket and a 3/16-inch socket. The 403A tool forms a part of the 72 tool.

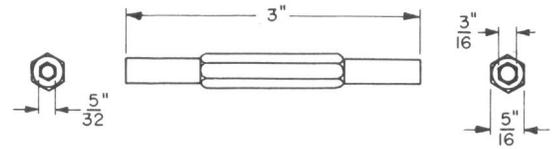


Fig. 11—403A Hex, Double-End Socket Wrench

2.12 447A: The protector wrench and adjuster is covered in Section 074-202-119.

2.13 KS-20476, L1: The KS-20476, L1 tool (Fig. 12) (Mfr Disc.) consists of a removable 12-point socket wrench attached to a metal shaft having a plastic grip. The KS-20476, L1 tool was used for servicing CA through CF small crossbar switches.

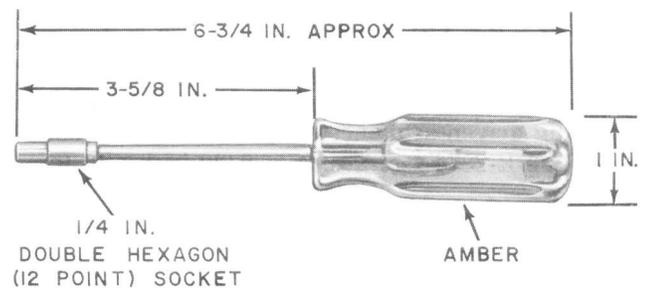


Fig. 12—KS-20476, L1 or Utica V-780 Nut Driver and Socket

2.14 Utica V-780: The Utica V-780, 1/4-inch nut driver (Fig. 12) has a metal shaft with a plastic grip and is equipped with a Utica V-8, 1/4-inch, 12-point socket. The Utica nut driver is used for servicing CA through CF small crossbar switches.

2.15 Screwdriver—Handle Hex, Socket

Wrenches: The socket wrench (Fig. 13) is furnished by three suppliers, as listed.

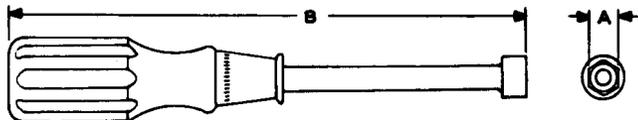


Fig. 13—Screwdriver-Handle Hex, Socket Wrench

(a) **Steven Walden, Inc. 3410:** The Steven Walden, Inc. 3410 tool is used on the KS-13834 perforators. The dimensions for the socket wrench are: A = 5/16-inch and B = 6 inches.

(b) **R-2874:** The R-2874 tool is used on crossbar switches and 1-type translators. The dimensions for the R-2874 tool are: A = 7/16-inch and B = 7 inches.

(c) **Xcelite HS-9:** The Xcelite HS-9 replaces the R-1977 tool and is used on the 157-type interrupters, A- and B-type sequence switches, and spring driven sequence switches. The dimensions for the R-2874 tool are: A = 9/32 inch and B = 7 inches.

2.16 Tee-Handle Hex, Socket Wrenches: The tee-handle hex, socket wrenches (Fig. 14) are furnished by three suppliers, as listed.

(a) **R-1681:** The R-1681 tool replaces the AECO H-10053-1 wrench and is used on the 197- and 198-type switches. The dimensions for the R-1681 tool are: A = 5/16-inch, B = 4-1/4 inches, and C = 4 inches.

(b) **KS-6257:** The KS-6257 tool (Mfr Disc.) replaces the AECO, H-7058 wrench and is used on the 197- and 198-type switches. The dimensions for the KS-6257 tool are: A = 3/8-inch, B = 4-7/16 inches, and C = 4-1/2 inches.

(c) **J. H. Williams & Company 968D:** The J. H. Williams & Company 968D tool is used on pneumatic ticket distributing systems. The dimensions for the 968D tool are: A = 13/16-inch, B = 7 inches, and C = 6-3/4 inches.

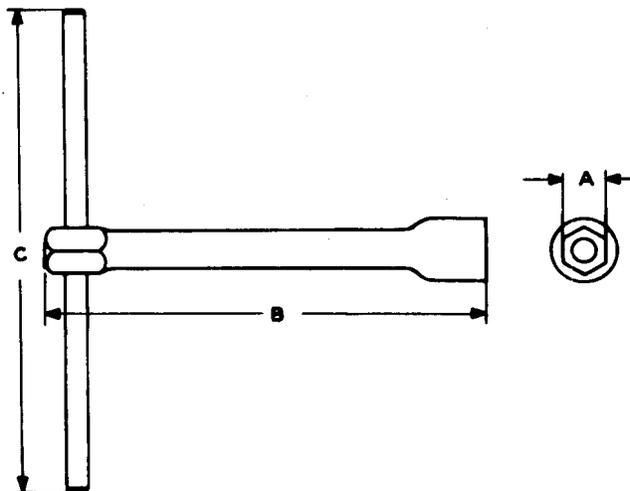


Fig. 14—Tee-Handle, Hex Socket Wrench