



# TOOLS



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## GC PROFESSIONAL™ PLIERS AND CUTTERS



Fig. 1



Fig. 2



Fig. 3



Fig. 4



Fig. 5



Fig. 6



Fig. 7

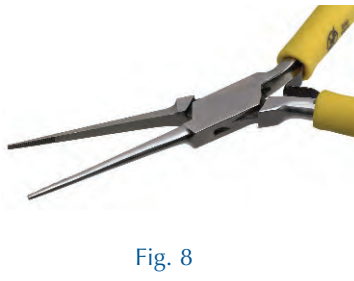


Fig. 8

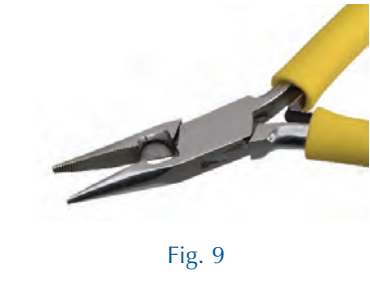


Fig. 9



Fig. 10



Fig. 11



Fig. 12

### GC Professional™ Pliers and Cutters

| Retail Part No. | Bulk Part No. | Figure No. | Description            | Overall Length | Nose Style | Pliers or Cutters Type |
|-----------------|---------------|------------|------------------------|----------------|------------|------------------------|
| 12-7301         |               | 1          | Chain Nose             | 4.50"          | Smooth     | Pliers                 |
| 12-7307         |               | 1          | Chain Nose             | 4.50"          | Serrated   | Pliers                 |
| 12-7302         |               | 2          | Chain Nose             | 5.00"          | Smooth     | Pliers                 |
| 12-7308         |               | 2          | Chain Nose             | 5.00"          | Serrated   | Pliers                 |
| 12-7303         |               | 3          | Flat Nose              | 4.50"          | Smooth     | Pliers                 |
| 12-7304         |               | 4          | Flat Nose              | 5.00"          | Smooth     | Pliers                 |
| 12-7305         |               | 5          | Round Nose             | 4.50"          | Smooth     | Pliers                 |
| 12-7306         |               | 6          | Round Nose             | 5.00"          | Smooth     | Pliers                 |
| 12-7313         |               | 7          | Extra Long Bent Nose   | 6.00"          | Smooth     | Pliers                 |
| 12-7314         |               | 8          | Extra Long Needle Nose | 5.75"          | Serrated   | Pliers                 |
| 12-7315         |               | 9          | Long Nose Side Cutter  | 4.75"          | Serrated   | Pliers/Cutters         |
| 12-7333         |               | 10         | Long Nose              | 6.00"          | Serrated   | Pliers                 |
| 12-7312         |               | 11         | Extra Long Bent Nose   | 5.00"          | Smooth     | Pliers                 |
| 12-7311         |               | 12         | Extra Long Chain Nose  | 5.00"          | Smooth     | Pliers                 |

## GC PROFESSIONAL™ PLIERS AND CUTTERS (Cont.)



Fig. 1



Fig. 2



Fig. 3



Fig. 4



Fig. 5



Fig. 6



Fig. 7

### GC Professional™ Pliers and Cutters (Cont.)

| Retail Part No. | Bulk Part No. | Figure No. | Description           | Overall Length | Nose Style | Pliers or Cutters Type |
|-----------------|---------------|------------|-----------------------|----------------|------------|------------------------|
| 12-7309         |               | 1          | Bent Nose             | 4.50"          | Smooth     | Pliers                 |
| 12-7310         |               | 1          | Bent Nose             | 4.50"          | Serrated   | Pliers                 |
| 12-7330         |               | 2          | Flush Tip Cutter      | 4.50"          | Flush      | Cutters                |
| 12-7321         |               | 3          | Oval Head Cutter      | 4.50"          | Semi-flush | Cutters                |
| 12-7323         |               | 3          | Oval Head Cutter      | 4.50"          | Flush      | Cutters                |
| 12-7322         |               | 4          | Oval Head Cutter      | 5.00"          | Semi-flush | Cutters                |
| 12-7324         |               | 4          | Oval Head Cutter      | 5.00"          | Flush      | Cutters                |
| 12-7325         |               | 5          | Tapered Head Cutter   | 4.50"          | Semi-flush | Cutters                |
| 12-7326         |               | 5          | Tapered Head Cutter   | 4.50"          | Flush      | Cutters                |
| 12-7331         |               | 6          | Mini Tapered Cutter   | 4.50"          | Flush      | Cutters                |
| 12-7332         |               | 7          | Mini Oval Head Cutter | 4.50"          | Flush      | Cutters                |

## PLIERS AND CUTTERS



Fig. 1



Fig. 2



Fig. 3



Fig. 4



Fig. 5



Fig. 6



Fig. 7



Fig. 8



Fig. 9



Fig. 10



Fig. 11

### Palm Grip Pliers

| Retail Part No. | Bulk Part No. | Figure No. | Description                    | Handle Color | Nose Style   | Features                                                         |
|-----------------|---------------|------------|--------------------------------|--------------|--------------|------------------------------------------------------------------|
| 12-200          |               | 1          | Flush Cutter                   | Red          | Flush        |                                                                  |
| 12-204          |               | 2          | Flat Nose Pliers               | Blue         | Serrated     |                                                                  |
| 12-208          |               | 3          | Flat Nose Pliers               | White        | Non-serrated |                                                                  |
| 12-212          |               | 4          | Round Nose Pliers              | Yellow       | Smooth       |                                                                  |
| 12-216          |               | 5          | Needle Nose Pliers             | Green        | Smooth       |                                                                  |
| 12-220          |               | 6          | Curved Nose Pliers             | Orange       | Smooth       |                                                                  |
| 12-7070         |               | 7          | 5-piece Precision Pliers Set   | Black        | Smooth       | Includes Micro Snub, Flat, Round, Bent Nose and Long Nose Pliers |
| 12-7071         |               | 8          | Micro Flat Nose Pliers         | Black        | Smooth       | Perfect for Minimal Jaw Thickness                                |
| 12-7072         |               | 9          | Micro Snub Nose Cutting Nipper | Black        | Cutter       | Ideal for Trimming                                               |
| 12-7073         |               | 10         | Micro Round Nose Pliers        | Black        | Smooth       | Holds Tiny Wires                                                 |
| 12-7075         |               | 11         | Micro Bent Nose Pliers         | Black        | Smooth       | Reaches/Holds Under PC Boards                                    |

## PLIERS AND CUTTERS (Cont.)



Fig. 1



Fig. 2



Fig. 3



Fig. 4



Fig. 5



Fig. 6

### Pliers and Cutters

| Retail Part No. | Bulk Part No. | Figure No. | Description                           | Handle Color | Overall Length | Nose Style | Weight (Pounds) |
|-----------------|---------------|------------|---------------------------------------|--------------|----------------|------------|-----------------|
| 12-300          |               | 1          | Mini Diagonal Cutting Pliers          | Orange       | 4.00"          |            | 0.16            |
| 12-306          |               | 1          | Mini Diagonal Cutting Pliers          | Orange       | 4.50"          |            | 0.16            |
| 12-312          |               | 2          | Narrow Diagonal Cutting Pliers        | Orange       | 5.00"          |            | 0.22            |
| 12-318          |               | 3          | High Leverage Diagonal Cutting Pliers | Orange       | 7.00"          |            | 0.56            |
| 12-500          |               | 4          | Flush Cutters                         | Orange       | 5.00"          |            |                 |
| 12-504          |               | 5          | Clip/Grip Flush Cutter                | Orange       | 4.50"          |            |                 |
| 12-1950         |               | 6          | Snap Ring Plier Kit                   | Red          | 6.50"          |            |                 |



Fig. 7

### Precision Electronic Screwdrivers

| Retail Part No. | Bulk Part No. | Figure No. | Description           | Blade Size | Shaft Diameter | Shaft Length | Handle Length | Overall Length |
|-----------------|---------------|------------|-----------------------|------------|----------------|--------------|---------------|----------------|
| 12-6114         |               | 7          | Flat Head Screwdriver | 1.4 mm     | 2.0 mm         | 40 mm        | S-80 mm       | 120 mm         |
| 12-6120         |               | 7          | Flat Head Screwdriver | 2.0 mm     | 2.0 mm         | 40 mm        | S-80 mm       | 120 mm         |
| 12-6220         |               | 7          | Flat Head Screwdriver | 2.0 mm     | 2.0 mm         | 75 mm        | M-95 mm       | 170 mm         |
| 12-6224         |               | 7          | Flat Head Screwdriver | 2.4 mm     | 2.4 mm         | 75 mm        | M-95 mm       | 170 mm         |
| 12-6225         |               | 7          | Flat Head Screwdriver | 2.4 mm     | 2.4 mm         | 100 mm       | M-95 mm       | 195 mm         |
| 12-6231         |               | 7          | Flat Head Screwdriver | 3.0 mm     | 3.0 mm         | 150 mm       | M-95 mm       | 245 mm         |
| 12-6330         |               | 7          | Flat Head Screwdriver | 3.0 mm     | 3.0 mm         | 100 mm       | L-105 mm      | 205 mm         |
| 12-6341         |               | 7          | Flat Head Screwdriver | 4.0 mm     | 4.0 mm         | 150 mm       | L-105 mm      | 255 mm         |

## PRECISION ELECTRONIC SCREWDRIVERS (Cont.)



Fig. 1

### Precision Electronic Screwdrivers (Cont.)

| Retail Part No. | Bulk Part No. | Figure No. | Description               | Blade Size | Shaft Diameter | Shaft Length | Handle Length | Overall Length |
|-----------------|---------------|------------|---------------------------|------------|----------------|--------------|---------------|----------------|
| 12-6414         |               | 1          | Phillips Head Screwdriver | 1.4 mm     | 2.0 mm         | 40 mm        | S-80 mm       | 120 mm         |
| 12-6424         |               | 1          | Phillips Head Screwdriver | 2.4 mm     | 2.4 mm         | 40 mm        | S-80 mm       | 120 mm         |
| 12-6520         |               | 1          | Phillips Head Screwdriver | 2.0 mm     | 2.0 mm         | 75 mm        | M-95 mm       | 170 mm         |
| 12-6524         |               | 1          | Phillips Head Screwdriver | 2.4 mm     | 2.4 mm         | 75 mm        | M-95 mm       | 170 mm         |
| 12-6525         |               | 1          | Phillips Head Screwdriver | 2.4 mm     | 2.4 mm         | 100 mm       | M-95 mm       | 195 mm         |
| 12-6630         |               | 1          | Phillips Head Screwdriver | 3.0 mm     | 3.0 mm         | 100 mm       | L-105 mm      | 205 mm         |
| 12-6631         |               | 1          | Phillips Head Screwdriver | 3.0 mm     | 3.0 mm         | 150 mm       | L-105 mm      | 255 mm         |
| 12-6640         |               | 1          | Phillips Head Screwdriver | 4.0 mm     | 4.0 mm         | 100 mm       | L-105 mm      | 205 mm         |
| 12-6641         |               | 1          | Phillips Head Screwdriver | 4.0 mm     | 4.0 mm         | 150 mm       | L-105 mm      | 255 mm         |

## PRECISION ELECTRONIC SCREWDRIVER SETS



Fig. 2

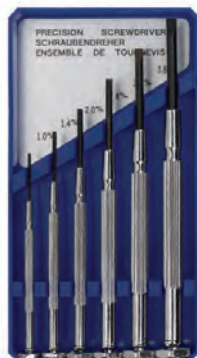


Fig. 3



Fig. 4



Fig. 5



Fig. 6

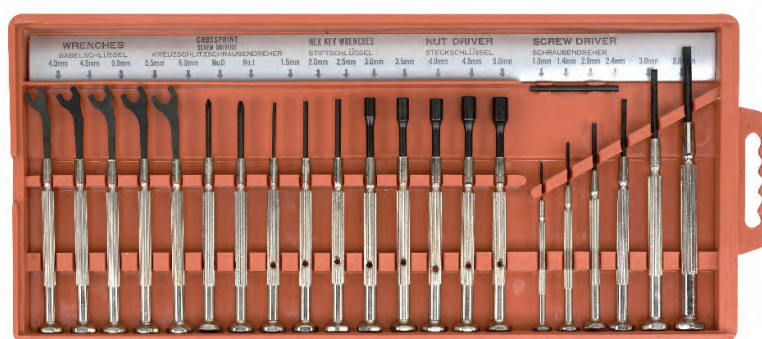


Fig. 7

### Precision Electronic Screwdriver Sets

| Retail Part No. | Figure No. | Flat Heads                               | Phillips Heads                           | Set Also Includes | No. of Pieces |
|-----------------|------------|------------------------------------------|------------------------------------------|-------------------|---------------|
| 12-043          | 2          | 0.9mm, 1.2mm, 1.8mm, 2.4mm, 3.0mm, 3.5mm |                                          |                   | 6             |
| 12-063          | 3          | 1.0mm, 1.4mm, 2.0mm, 2.4mm, 3.0mm, 3.8mm |                                          |                   | 6             |
| 12-064          | 4          |                                          | 1.6mm, 2.0mm, 2.4mm, 3.0mm, 3.5mm, 4.0mm |                   | 6             |
| 12-065          | 5          | 1.4mm, 2.0mm, 2.4mm, 3.0mm               | 3.0mm, 4.0mm                             |                   | 6             |
| 12-066          | 6          | 1.0mm, 1.2mm, 1.4mm, 1.8mm, 2.4mm, 3.0mm | 2.4mm, 3.0mm, 4.0mm                      | Magnetic Tip, AWL | 11            |
| 12-068          | 7          | 1.0mm, 1.4mm, 2.0mm, 2.4mm, 3.0mm, 3.8mm | 3.0mm, 4.0mm                             | (*See Note Below) | 21            |

\*Includes Open Wrenches: 4.0mm, 4.5mm, 5.0mm, 5.5mm, 6.0mm; Hex Key Wrenches: 1.5mm, 2.0mm, 2.5mm; Nutdrivers: 3.0mm, 3.5mm, 4.0mm, 4.5mm, 5.0mm

## PRECISION ELECTRONIC SCREWDRIVER SETS (Cont.)



Fig. 1



Fig. 2



Fig. 3



Fig. 4



Fig. 5



Fig. 6



Fig. 7

### Precision Electronic Screwdriver Sets (Cont.)

| Retail Part No. | Figure No. | Flat Heads                               | Phillips Heads      | Set Also Includes                           | No. of Pieces |
|-----------------|------------|------------------------------------------|---------------------|---------------------------------------------|---------------|
| 12-6900         | 1          | 2.4mm, 3.0mm, 4.0mm                      | 2.4mm, 3.0mm, 4.0mm |                                             | 6             |
| 12-6901         | 2          | 1.0mm, 1.4mm, 2.0mm, 2.4mm, 3.0mm, 3.5mm |                     |                                             | 6             |
| 12-6912         | 3          | 1.4mm, 2.0mm, 2.4mm, 3.0mm               | 2.0mm, 2.4mm, 3.0mm |                                             | 7             |
| 12-6923         | 4          | 1.4mm, 2.0mm, 2.4mm, 3.0mm               | 1.6mm, 2.4mm, 3.0mm |                                             | 7             |
| 12-6931         | 5          | 1.0mm, 1.4mm, 2.0mm, 2.4mm, 3.0mm        | 1.6mm, 2.0mm, 2.4mm | Screw Tray                                  | 8             |
| 12-6955         | 6          | 2.4mm, 3.0mm                             | 2.4mm, 3.0mm        | Nippers & Long Nose Pliers                  | 6             |
| 12-041          | 7          | 1/8", 3/16", 1/4"                        | #1, #2              | 3/16", 1/4", 5/16", 11/32", 3/8" Nutdrivers | 10            |



Fig. 8



Fig. 9

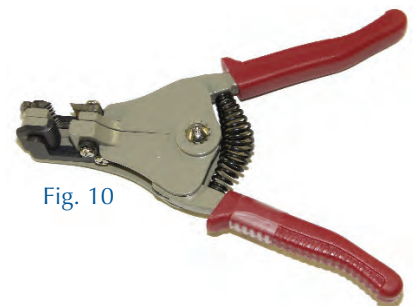


Fig. 10

### Wire Strippers

| Retail Part No. | Figure No. | Description                                       | Cuts Wire    | Strips Wire  | Replacement Blades |
|-----------------|------------|---------------------------------------------------|--------------|--------------|--------------------|
| 12-197          | 8          | Round Cable Rotary Wire Stripper                  | Up to 1.75"  |              | Included           |
| 12-175          | 9          | Maxim Universal Wire Stripper                     | 10 AWG-12AWG | 10 to 20 AWG |                    |
| 12-480          | 10         | Speed-O-Matic Wire Stripper (Replaces 766 Series) |              | 8 to 22 AWG  |                    |

## WIRE STRIPPERS (Cont.)



Fig. 1

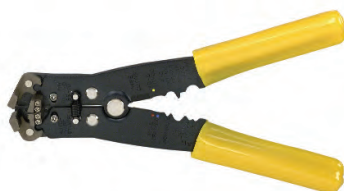


Fig. 2



Fig. 3



Fig. 4



Fig. 5



Fig. 6



Fig. 7



Fig. 8



Fig. 9



Fig. 10



Fig. 11



Fig. 12



Fig. 13



Fig. 14



Fig. 15

## Wire Strippers (Cont.)

| Retail Part No. | Figure No. | Description                            | Cuts Wire           | Strips Wire                        | Replacement Blades |
|-----------------|------------|----------------------------------------|---------------------|------------------------------------|--------------------|
| 12-481          | 1          | Self-adjusting Wire Stripper           |                     | Multi-gauge/Zip Cord Stripper      |                    |
| 12-155          | 2          | Fully Automatic Wire Stripper          | Not for PTFE        | 10 to 26 AWG                       | 12-166             |
| 12-292          | 3          | Electrician's Scissors                 | Soft Thin AWG       |                                    |                    |
| 12-551          | 4          | One Step Stripper                      |                     | RG-59 & RG-6                       | 12-552             |
| 12-164          | 5          | Kwik-strip Coaxial Stripper            | RG-58/U & RG-59/U   | RG-58/U & RG-59/U                  | 12-165             |
| 12-171          | 6          | 2-Level Coaxial Stripper               | Single Crimp        | RG-6, RG-58, RG-59, RG-62          | 12-173             |
| 12-172          | 6          | 3-Level Coaxial Stripper               | Dual Crimp          | RG-6, RG-58, RG-59, RG-62          | 12-174             |
| 12-178          | 7          | 3 in 1 Wire Stripper                   |                     | RG-58, RG-59, RG-62 & 16 to 26 AWG |                    |
| 12-760          | 8          | Strip-Er-Clip                          |                     | 12 to 26 AWG                       |                    |
| 12-458          | 9          | Coaxial Stripper                       |                     | RG-58, RG-59, RG-62                | 12-468             |
| 12-501          | 10         | Thorselect 2-Level Coaxial Stripper    |                     | RG-6, RG-59, RG-62                 |                    |
| 12-531          | 11         | Thorselect 3-Level Coaxial Stripper    |                     | RG-58, RG-59, RG-62                |                    |
| 12-176          | 12         | Line Cord Stripper                     | RJ-11 & RJ-45 (Tel) | RJ-11 & RJ-45                      |                    |
| 12-532          | 13         | Professional UTP Wire Stripper         | Twisted Pair        | Twisted Pair                       |                    |
| 12-533          | 14         | Combo Cartridge Stripper (Black, Blue) |                     | RG-6, RG-6/Quad, RG-59, UTP        | 12-534 & 12-535    |
| 12-534          | 14         | Blades for above Stripper (Black)      |                     | RG-6, RG-6/Quad, RG-59             |                    |
| 12-535          | 14         | Blades for above Stripper (Blue)       |                     | UTP Data Com                       |                    |
| 12-546          | 15         | UTP Wire Stripper                      |                     | Up to 0.43"                        |                    |

## PREP TOOLS



Fig. 1



Fig. 2



Fig. 3



Fig. 4



Fig. 5



Fig. 6

### Prep Tools

| Retail Part No. | Bulk Part No. | Figure No. | Description                       | Function                                              |
|-----------------|---------------|------------|-----------------------------------|-------------------------------------------------------|
| 12-600          |               | 1          | Manual Wire Wrap                  | Wraps 30 AWG Wire onto .025" Wire Wrap Posts          |
| 12-603          |               | 2          | Dual Wire Wrap                    | Wraps, Strips, and Unwraps 22& 24 AWG Wire            |
| 12-636          |               | 3          | Wire Wrap (Red)                   | 100 ft. Silver Plated Solid 30 AWG KYNAR® Wire        |
| 12-630          |               | 3          | Wire Wrap (Blue)                  | 100 ft. Silver Plated Solid 30 AWG KYNAR® Wire        |
| 12-634          |               | 3          | Wire Wrap (White)                 | 100 ft. Silver Plated Solid 30 AWG KYNAR® Wire        |
| 12-632          |               | 3          | Wire Wrap (Yellow)                | 100 ft. Silver Plated Solid 30 AWG KYNAR® Wire        |
| 12-462          |               | 4          | Round Cable & Wire Cutter         | Cuts Cable Up to .5" and Solid Wire Up to 8 AWG       |
| 12-395          |               | 5          | Combo Prep Tool for Coaxial Cable | Preps and Attaches Twist-on "F" Connectors-RG 59      |
| 12-396          |               | 6          | Combo Prep Tool for Coaxial Cable | Preps and Attaches Twist-on "F" Connectors-RG 59/RG 6 |

## LIGHTPUMP FLASHLIGHTS



Fig. 7



Fig. 9



Fig. 10



Fig. 11



Fig. 8



### LightPUMP LED Flashlights

| Retail Part No. | Bulk Part No. | Bulk Quantity | Figure No. | Description                                                | Color      | Batteries Needed? | Water Proof? |
|-----------------|---------------|---------------|------------|------------------------------------------------------------|------------|-------------------|--------------|
| 12-110C         |               |               | 7          | LED FlashLightPump, Pump to Charge, Ergonomically Designed | Camouflage | None              | No           |
| 12-110B         |               |               | 8          | LED FlashLightPump, Pump to Charge, Ergonomically Designed | Blue       | None              | No           |
| 12-110O         |               |               | 9          | LED FlashLightPump, Pump to Charge, Ergonomically Designed | Orange     | None              | No           |
| 12-110K         |               |               | 10         | LED FlashLightPump, Pump to Charge, Ergonomically Designed | Black      | None              | No           |
| 12-110Y         |               |               | 11         | LED FlashLightPump, Pump to Charge, Ergonomically Designed | Yellow     | None              | No           |

## TOOLS FOR ELECTRONIC APPLICATIONS

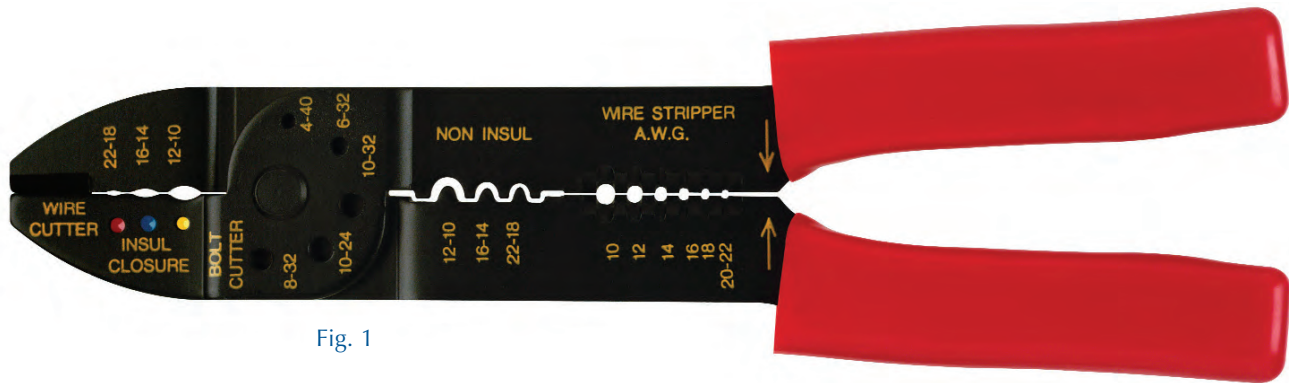


Fig. 1



Fig. 2



Fig. 3

### Universal Solderless Terminal Crimping Tool and Bolt Cutters

| Retail Part No. | Figure No. | Crimps Terminals                                                        | Cuts/Strips Wire | Wire Range | Cuts Bolts (Sizes)             | Overall Length | Handle Color |
|-----------------|------------|-------------------------------------------------------------------------|------------------|------------|--------------------------------|----------------|--------------|
| CT-4071-P       | 1          | Ring, Flanged Spade, Spade Terminal, Butt Slices, Closed End Connectors | Yes              | 10-25 AWG  | 4-40, 5-40, 8-32, 10-24, 10-32 | 8.25 in.       | Red          |

### Terminal Crimper Red

| Retail Part No. | Figure No. | Crimps Terminals                                                                                                                           | Cuts/Strips Wire | Wire Range | Cuts Bolts (Sizes)             | Overall Length | Handle Color |
|-----------------|------------|--------------------------------------------------------------------------------------------------------------------------------------------|------------------|------------|--------------------------------|----------------|--------------|
| W-HT-1919-P     | 2          | .093" Pin Diameter Terminals, Standard KK Crimp Terminals for .156" Center KK Housings, Series #1189/1190, Series #1380/1381, Series #2478 | Yes              | 14-24 AWG  | 4-40, 5-40, 8-32, 10-24, 10-32 | 8.25 in.       | Red          |

### Terminal Crimper Yellow

| Retail Part No. | Figure No. | Crimps Terminals                                                                                                                                                                                                                                          | Cuts/Strips Wire | Wire Range | Cuts Bolts (Sizes)             | Overall Length | Handle Color |
|-----------------|------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------|------------|--------------------------------|----------------|--------------|
| W-HT-1921-P     | 3          | .062" Pin Diameter Terminals, .093" Pin Diameter Terminals, Mini KK Terminals for .100" Center KK Housings, Standard KK Crimp Terminals for .156" Center KK Housings, Series #1433/1434, Series #1560/1561, Series #1854/1855, Series #2759, Series #2578 | Yes              | 18-30 AWG  | 4-40, 5-40, 8-32, 10-24, 10-32 | 8.25 in.       | Yellow       |

## TOOLS FOR ELECTRONIC APPLICATIONS (Cont.)

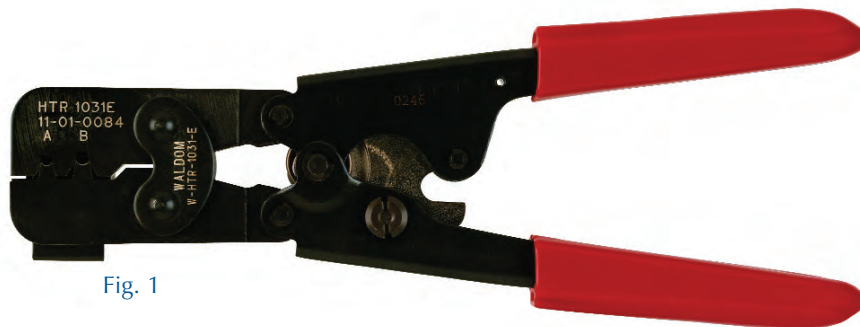


Fig. 1



Fig. 2



Fig. 3



Fig. 4



Fig. 5

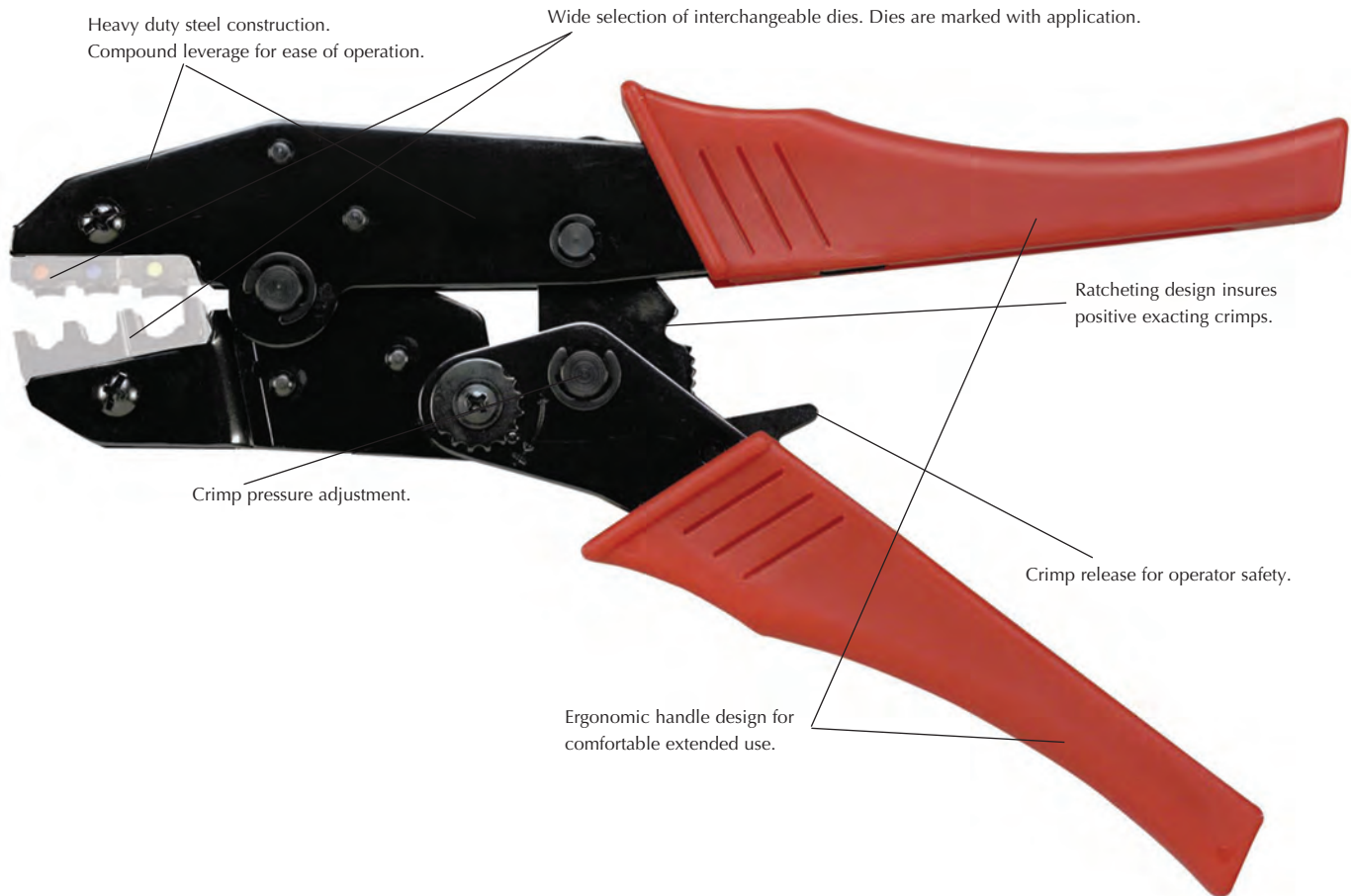
### Ratchet Hand Crimping Tools

| Retail Part No. | Figure No. | Crimps Molex Terminal Series No.                                                                                                                                           | with Locator | Wire Range | Overall Length | Handle Color |
|-----------------|------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------|------------|----------------|--------------|
| W-HTR-1031-E-P  | 1          | 1189/1190, 1380/1381, 1450/1451, 1881, 1973, 2046/2047, 2151/2152, 2236/2237, 2269, 2273, 2282/2283, 4268, 4272, 4296, 4549, 4550, 4563, 6271, 6310, 6850, 7238/7239, 8050 | Yes          | 14-26 AWG  | 9.0 in.        | Red          |
| W-HTR-1719-C-P  | 1          | 1560/1561, 1786/1787, 1799, 1943, 4295, 5005, 5006, 6361, 6770, 6772, 7291, 8960                                                                                           | Yes          | 18-24 AWG  | 9.0 in.        | Red          |
| W-HTR-2262      | 1          | 1433, 1434, 1881, 6308, 6893, 6894, 2799, 4549, 4550                                                                                                                       | No           | 24-30 AWG  | 9.0 in.        | Red          |
| W-HTR-2262-A-P  | 1          | 1854/1855, 2189, 2190, 4559, 2759, 40445, 41572, 4809, 6459, 7879, 5159                                                                                                    | No           | 22-30 AWG  | 9.0 in.        | Red          |
| W-HTR-2445-A    | 1          | 5168, 2578, 2477, 2478, 7258, 4838, 2878, 5168, 5167, 6438, 8818, 8993                                                                                                     | No           | 18-26 AWG  | 9.0 in.        | Red          |

### Extraction Tools for Electronic Pins and Sockets

| Retail Part No. | Figure No. | Molex for Use with Connector Series and Pin Sizes | Color        | Weight (Pounds) | Wire Range |
|-----------------|------------|---------------------------------------------------|--------------|-----------------|------------|
| W-HT-1884-P     | 2          | 2478, 2578, 2759, (WMLX 106-207-214)              | Black Oxide  | 0.1875          | 18-30 AWG  |
| W-HT-2759-P     | 3          | 40445, 41572                                      | Black Oxide  | 0.0065          | 22-30 AWG  |
| W-HT-2038-P     | 4          | for .093" Diameter Pins                           | Brass        | 0.08            | 14-30 AWG  |
| W-HT-2285-P     | 4          | for .062" Diameter Pins                           | Brass        | 0.08            | 18-30 AWG  |
| W-HT-2023-P     | 5          | for .062" Diameter Pins                           | Silver Metal | 0.3125          | 18-30 AWG  |
| W-HT-2054-P     | 5          | for .093" Diameter Pins                           | Silver Metal | 0.3125          | 18-30 AWG  |

## 9000 SERIES PROFESSIONAL RATCHETING CRIMP TOOLS



### 9000 Series Professional Ratcheting Crimp Tools and Die Sets

| Retail Part No. | Bulk Part No. | Description                                                                            | Replacement Die Set |
|-----------------|---------------|----------------------------------------------------------------------------------------|---------------------|
| 12-9000         |               | Heavy Duty Crimping Tool, Frame Only                                                   | All Die Sets Below  |
| 12-9001         |               | 10-22 AWG Insulated Terminals, Color Coded Nests                                       | 12-9101             |
| 12-9002         |               | 12-22 AWG Non-insulated Terminals                                                      | 12-9102             |
| 12-9003         |               | 10-22 AWG Full Insulated Quick Disconnect Terminals with Thinner Wire Barrels          | 12-9103             |
| 12-9004         |               | RG-58, 59/62 BNC/TNC Coaxial Connectors                                                | 12-9104             |
| 12-9005         |               | Cambridge CP-88, CP-89, RG-58, 59/62 BNC/TNC                                           | 12-9105             |
| 12-9006         |               | 8-22 AWG Non-insulated Terminals                                                       | 12-9106             |
| 12-9007         |               | 16-26 AWG Mini Insulated Rings, Spade and Butt Splices                                 | 12-9107             |
| 12-9008         |               | Fiber Optic SMA, SMB, SFR Connectors                                                   | 12-9108             |
| 12-9009         |               | AMP Fiber Optic SMA or SFR Type Connectors                                             | 12-9109             |
| 12-9010         |               | RG-58/174 and Belden 8218, 50 and 75 Ohm Cables                                        | 12-9110             |
| 12-9011         |               | RG-59, RG-6, 8281 50 and 75 Ohm Cables                                                 | 12-9111             |
| 12-9012         |               | N-series RG-8/11 Connectors                                                            | 12-9112             |
| 12-9013         |               | RG-174, Mini 59 BNC/TNC Connectors                                                     | 12-9113             |
| 12-9014         |               | RG-6, RG-174, 8281 Cable                                                               | 12-9114             |
| 12-9015         |               | Twinax (Hex)                                                                           | 12-9115             |
| 12-9016         |               | Plenum and Non-plenum, Thinwire also PTFE                                              | 12-9116             |
| 12-9017         |               | AMP Thinwire Dual Crimp BNC Coaxial Connectors                                         | 12-9117             |
| 12-9018         |               | AMP RG-58 Dual Crimp BNC/TNC Coaxial Connectors                                        | 12-9118             |
| 12-9019         |               | AMP RG-59/62 Dual Crimp BNC/TNC Coaxial Connectors                                     | 12-9119             |
| 12-9020         |               | Mini UHF and BNC/TNC 5 Cavity                                                          | 12-9120             |
| 12-9021         |               | RG-59, RG-6, RG-6 Quad Shield F-type CATV Connectors                                   | 12-9121             |
| 12-9022         |               | Modular Plug RJ-45 8 Position Keyed or Non-keyed                                       | 12-9122             |
| 12-9023         |               | Modular Plug RJ-11 2, 4, and 6 Position                                                | 12-9123             |
| 12-9024         |               | Modular Plug DEC MMJ 6 Position with an Offset Release Tab                             | 12-9124             |
| 12-9025         |               | Modular Plug AMP RJ-45 8 Position/Primary Strain Relief is Located Further Back on Die | 12-9125             |
| 12-9026         |               | Modular Plug RJ-22 2 and 4 Position                                                    | 12-9126             |

## 9000 SERIES PROFESSIONAL RATCHETING CRIMP TOOL (Cont.)

### Replacement Die Sets

| Retail Part No. | Complete Tool Part | Die | Examples |
|-----------------|--------------------|-----|----------|
| 12-9101         | 12-9001            |     |          |
| 12-9102         | 12-9002            |     |          |
| 12-9103         | 12-9003            |     |          |
| 12-9104         | 12-9004            |     |          |
| 12-9105         | 12-9005            |     |          |
| 12-9106         | 12-9006            |     |          |
| 12-9107         | 12-9007            |     |          |
| 12-9108         | 12-9008            |     |          |
| 12-9109         | 12-9009            |     |          |
| 12-9110         | 12-9010            |     |          |
| 12-9111         | 12-9011            |     |          |
| 12-9112         | 12-9012            |     |          |
| 12-9113         | 12-9013            |     |          |

### Replacement Die Sets (Cont.)

| Retail Part No. | Complete Tool Part | Die | Examples |
|-----------------|--------------------|-----|----------|
| 12-9114         | 12-9014            |     |          |
| 12-9115         | 12-9015            |     |          |
| 12-9116         | 12-9016            |     |          |
| 12-9117         | 12-9017            |     |          |
| 12-9118         | 12-9018            |     |          |
| 12-9119         | 12-9019            |     |          |
| 12-9120         | 12-9020            |     |          |
| 12-9121         | 12-9021            |     |          |
| 12-9122         | 12-9022            |     |          |
| 12-9123         | 12-9023            |     |          |
| 12-9124         | 12-9024            |     |          |
| 12-9125         | 12-9025            |     |          |
| 12-9126         | 12-9026            |     |          |

## INSTALLER CRIMP TOOLS



Fig. 1

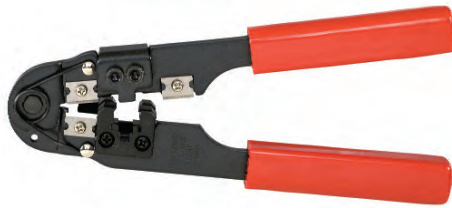


Fig. 2



Fig. 3

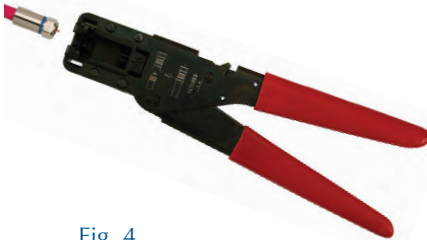


Fig. 4

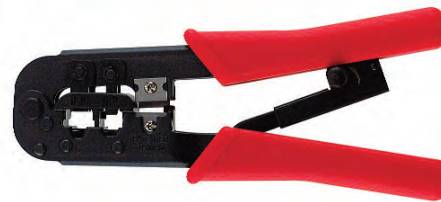


Fig. 5



Fig. 6



Fig. 7



Fig. 8



Fig. 9



Fig. 10



Fig. 11

### Installer Crimping Tools

| Retail Part No. | Bulk Part No. | Figure No. | Description                          | Crimps Connector                          | Cable Size                |
|-----------------|---------------|------------|--------------------------------------|-------------------------------------------|---------------------------|
| 8175            |               | 1          | 5-in-1 Crimping Tool                 | Solderless Terminals                      | Strips Wire 10-22 Gauge   |
| 12-001          |               | 2          | Telco® Crimping Tools                | 8 Contact Professional                    | Telco®/Telephone Wire     |
| 12-004          |               | 2          | Telco® Crimping Tools                | 4 & 6 Contact Professional                | Telco®/Telephone Wire     |
| 12-005          |               | 2          | Telco® Crimping Tools                | Modular Hand Set 4 Contact                | Telco®/Telephone Wire     |
| 30-9955         |               | 2          | Telco® Crimping Tools                | 10 Contact Professional                   | Telco®/Telephone Wire     |
| 12-002          |               | 3          | Dura Crimp                           | 4 & 6 Contact Modular/4 Position Hand Set |                           |
| 12-088          |               | 4          | Standard Ratcheting Compression Tool |                                           |                           |
| 12-2475         |               | 5          | Dual Cut & Crimp Tool                | 8P8C/RJ-45, 6P4C/RJ-11 & 6P2C             |                           |
| 12-400          |               | 6          | Crimping Tool & Terminal Asst.       | Solderless Terminals                      | Strips 10-22 Gauge        |
| 12-450          |               | 7          | Coaxial Crimp Tool                   | Coaxial                                   | RG-59, RG-6, RG-11        |
| 12-454          |               | 8          | Modular Crimp Tool                   | RJ-11, RJ-45, Modular 6 & 8 Way           | Modular Line Cord         |
| 12-455          |               | 9          | Crimping Tool                        | "F" Type & BNC                            | RG-58, RG-59, RG-62       |
| 12-456          |               | 10         | Ratcheting Crimp Tool                | Coaxial                                   | RG-58, RG-59, RG-62, RG-6 |
| 12-459          |               | 11         | Coaxial Tool Kit                     | Coaxial                                   | RG-58, RG-59, RG-62, RG-6 |

## INSTALLER CRIMP TOOLS (Cont.)



Fig. 1



Fig. 2



Fig. 3

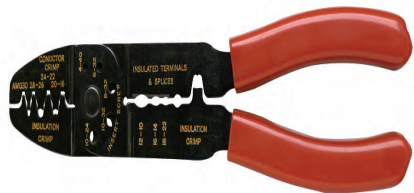


Fig. 4



Fig. 5



Fig. 6



Fig. 7



Fig. 8



Fig. 9

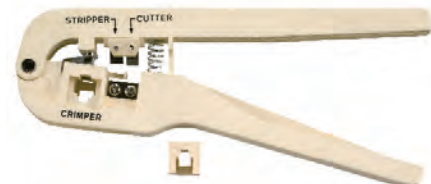


Fig. 10

### Installer Crimping Tools

| Retail Part No. | Bulk Part No. | Figure No. | Description                           | Crimps Connector                    | Cable Size             |
|-----------------|---------------|------------|---------------------------------------|-------------------------------------|------------------------|
| 12-460          |               | 1          | Crimping Tool                         | 10-22 AWG & D-subminiature Contacts |                        |
| 12-461          |               | 2          | Coaxial Center Conductor Cutter       | Dual Crimp Coaxial                  |                        |
| 12-463          |               | 3          | IDC Crimp Tool                        | IDC                                 | Flat (Ribbon)          |
| 12-464          |               | 4          | D-Sub/Double-D Service Tool           | D-sub & Double-D High Density       |                        |
| 12-466          |               | 5          | 4-way Indent Crimper                  | 20-26 AWG D-subminiature Contacts   |                        |
| 12-556          |               | 6          | Compression Crimp Tool                | SD-446-BU                           | RG-6                   |
| 12-7403         |               | 7          | Static Dissipative Grip Shears        |                                     | Cuts Wire Up to .04"   |
| 12-7404         |               | 8          | Small Blade Copper Wire Shears        |                                     | Cuts Between SMD Leads |
| 12-8800         |               | 9          | Professional Quality Compression Tool | Male "F" Compression                | RG-59 & RG-6           |
| 30-9951         | 30-9951-BU    | 10         | Modular Crimp Tool                    | 4 Conductor Modular & Handset       | Modular Line Cord      |

## ALIGNMENT TOOLS AND KITS

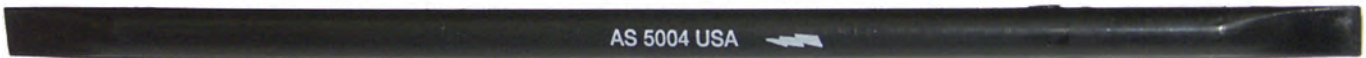


Fig. 1



Fig. 2

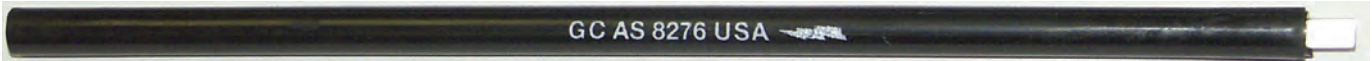


Fig. 3



Fig. 4



Fig. 5

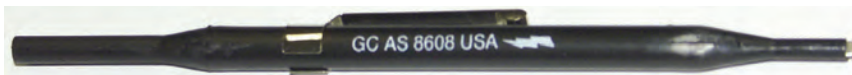


Fig. 6



Fig. 7



Fig. 8



Fig. 9



Fig. 10



Fig. 11

### Alignment Tools

| Retail Part No. | Bulk Part No. 100 Package | N.S.N. Part No.  | Figure No. | Material         | End 1 (Inches) | End 2 (Inches) | End 3 (Inches) | End 4 (Inches) | Length (Inches) |
|-----------------|---------------------------|------------------|------------|------------------|----------------|----------------|----------------|----------------|-----------------|
| AS-5004         | AS-5004-100               |                  | 1          | Conductive Nylon | 1/32           | 1/32           |                |                | 7               |
| AS-8275         |                           | 5120-00-541-1462 | 2          | Conductive Nylon | 1/32           | 1/8            | 1/16           |                | 4-15/16         |
| AS-8276         | AS-8276-100               | 5120-00-288-7781 | 3          | Conductive Nylon | 1/8            | 1/8            | 1/16           |                | 6-1/8           |
| AS-8605         |                           | 5120-00-724-3767 | 4          | Conductive Nylon | 0.05           | 3/32           | 3/32           | 3/32           | 5-3/16          |
| AS-8606         |                           | 5120-00-282-7786 | 5          | Conductive Nylon | 0.027          | 0.1            | 0.1            | 7/32           | 5-3/32          |
| AS-8608         | AS-8608-100               |                  | 6          | Conductive Nylon | 0.085          | 0.085          | 0.040          |                | 4-15/16         |
| AS-9300         |                           |                  | 7          | Conductive Nylon | 1/4            | 3/8            |                |                | 5               |
| AS-9302         | AS-9302-100               | 5120-00-089-8216 | 8          | Conductive Nylon | 0.078          | 0.1            | 0.1            |                | 5-3/8           |
| AS-9440         |                           |                  | 9          | Conductive Nylon | 0.1            | 3/8            | 1/16           | 1/32           | 5-1/16          |
| 2512            |                           |                  | 10         | Butyrate         | 0.031          | 0.015          | 0.093          |                | 6-5/16          |
| 2520            | 2520-100                  | 5120-00-288-7780 | 11         | Delrin           | 1/32           | 1/32           |                |                | 7               |

## ALIGNMENT TOOLS AND KITS (Cont.)



Fig. 1



Fig. 2



Fig. 3



Fig. 4



Fig. 5



Fig. 6



Fig. 7



Fig. 8



Fig. 9



Fig. 10



Fig. 11

### Alignment Tools (Cont.)

| Retail Part No. | Bulk Part No. 100 Package | N.S.N. Part No.  | Figure No. | Material    | End 1 (Inches) | End 2 (Inches) | End 3 (Inches) | End 4 (Inches) | Length (Inches) |
|-----------------|---------------------------|------------------|------------|-------------|----------------|----------------|----------------|----------------|-----------------|
| 2522            |                           |                  | 1          | Celcon      | 0.030          | Handle         |                |                | 8-1/8           |
| 5000            |                           |                  | 2          | Butyrate    | 1/8            | 1/8            |                |                | 6-1/8           |
| 5004            | 5004-100                  | 5120-00-508-9755 | 3          | Delrin      | 1/32           | 1/32           |                |                | 6-3/4           |
| 5009            | 5009-100                  |                  | 4          | Delrin      | 1/32           | 1/32           |                |                | 6               |
| 5066            |                           |                  | 5          | Butyrate    | 0.187          |                |                |                | 2-5/8           |
| 5080            |                           |                  | 6          | Butyrate    | 1/8            | Handle         |                |                | 5-7/8           |
| 12-5090         |                           |                  | 7          | Steel       | Mirror         |                |                |                | 7-1/2           |
| 5090-P          |                           | 5120-00-159-8180 | 8          | Polystyrene | Mirror         |                |                |                | 8               |
| 5097            |                           |                  | 9          | Delrin      | 1/32           | 1/16           |                |                | 6               |
| 7948            |                           |                  | 10         | Steel       | 3/8            | 3/8            |                |                | 4-1/2           |
| 8195            |                           |                  | 11         | Delrin      | 1/32           | Handle         |                |                | 7-1/32          |

## ALIGNMENT TOOLS AND KITS (Cont.)



Fig. 1



Fig. 2



Fig. 3



Fig. 4



Fig. 5



Fig. 6



Fig. 7



Fig. 8



Fig. 9



Fig. 10



Fig. 11



Fig. 12

### Alignment Tools (Cont.)

| Retail Part No. | Bulk Part No. 100 Package | N.S.N. Part No.  | Figure No. | Material | End 1 (Inches) | End 2 (Inches) | End 3 (Inches) | End 4 (Inches) | Length (Inches) |
|-----------------|---------------------------|------------------|------------|----------|----------------|----------------|----------------|----------------|-----------------|
| 8271            |                           | 5120-00-333-9809 | 1          | Butyrate | 1/8            | 5/32           |                |                | 6               |
| 8273            |                           |                  | 2          | Butyrate | #6             |                |                |                | 7-7/8           |
| 8275            |                           | 5120-00-541-1462 | 3          | Delrin   | 1/32           | 1/8            |                |                | 4-15/16         |
| 8276            | 8276-100                  | 5120-00-288-7781 | 4          | Butyrate | 1/8            | 1/8            |                |                | 6-1/8           |
| 8277            |                           | 5120-00-840-0604 | 5          | Butyrate | 1/8            | 1/8            |                |                | 2-5/8           |
| 8279            |                           |                  | 6          | Butyrate | 0.055          |                |                |                | 7-7/8           |
| 8282            | 8282-100                  | 5120-00-572-3237 | 7          | Delrin   | 1/8            | 1/4            |                |                | 5-7/16          |
| 8284            |                           |                  | 8          | Delrin   | 0.080          | 0.080          | 0.1            | 7/32           | 5-1/8           |
| 8289            |                           |                  | 9          | Butyrate | 0.015          | Handle         |                |                | 2               |
| 8290            |                           |                  | 10         | Butyrate | 0.130          | Handle         |                |                | 7               |
| 8605            |                           |                  | 11         | Delrin   | 0.05           | 3/32           | 0.1            |                | 5-3/16          |
| 8606            | 8606-100                  | 5120-00-288-7786 | 12         | Delrin   | 0.027          | 0.1            | 0.1            |                | 5-3/32          |

## ALIGNMENT TOOLS AND KITS (Cont.)



Fig. 1



Fig. 2



Fig. 3



Fig. 4



Fig. 5



Fig. 6



Fig. 7



Fig. 8



Fig. 9



Fig. 10



Fig. 11

### Alignment Tools (Cont.)

| Retail Part No. | Bulk Part No. 100 Package | N.S.N. Part No.  | Figure No. | Material   | End 1 (Inches) | End 2 (Inches) | End 3 (Inches) | End 4 (Inches) | Length (Inches) |
|-----------------|---------------------------|------------------|------------|------------|----------------|----------------|----------------|----------------|-----------------|
| 8606-L          |                           |                  | 1          | Delrin     | 0.027          | 0.1            |                |                | 11-3/32         |
| 8608            | 8608-100                  |                  | 2          | Nylon      | 0.086          | 0.086          |                |                | 4-15/16         |
| 8609            |                           | 5120-00-227-7291 | 3          | Tenite     | 1/8            | 1/8            |                |                | 5-1/8           |
| 8721            |                           |                  | 4          | Butyrate   | 1/8            | 1/8            |                |                | 9               |
| 8727            |                           |                  | 5          | Butyrate   | 1/16           | Handle         |                |                | 6-3/8           |
| 8728            |                           |                  | 6          | Fiberglass | 1/32           | 1/32           |                |                | 12-1/16         |
| 8728-A          |                           | 5120-00-965-9549 | 7          | Delrin     | 1/32           | 1/32           |                |                | 7               |
| 8729            |                           |                  | 8          | Fiberglass | 1/32           | 1/32           |                |                | 16              |
| 8867            |                           |                  | 9          | Delrin     |                |                |                |                | 6-7/8           |
| 8868            |                           |                  | 10         |            | 0.130          | 0.1            |                |                | 6-7/8           |
| 8869            |                           |                  | 11         | Celcon     |                |                |                |                | 6-7/8           |

## ALIGNMENT TOOLS AND KITS (Cont.)



Fig. 1



Fig. 2



Fig. 3



Fig. 4



Fig. 5



Fig. 6



Fig. 7



Fig. 8



Fig. 9



Fig. 10



Fig. 11

### Alignment Tools (Cont.)

| Retail Part No. | Bulk Part No. 100 Package | N.S.N. Part No.  | Figure No. | Material                | End 1 (Inches) | End 2 (Inches) | End 3 (Inches) | End 4 (Inches) | Length (Inches) |
|-----------------|---------------------------|------------------|------------|-------------------------|----------------|----------------|----------------|----------------|-----------------|
| 8987            |                           | 5120-00-542-2936 | 1          | Fiberglass              | 1/32           |                |                |                | 9-3/8           |
| 8988            |                           |                  | 2          | Fiberglass              | 1/32           |                |                |                | 14-3/8          |
| 9050            |                           |                  | 3          | Nylon                   | 3/64           | 1/4            |                |                | 5-1/2           |
| 9051            |                           |                  | 4          | Butyrate                | 0.054          |                |                |                | 2.48            |
| 9077-1          |                           |                  | 5          | Heat Sink Clamp         |                |                |                |                | 0.67            |
| 9086            |                           |                  | 6          | Reamer (Fork Tipped)    | Fork Tip       |                |                |                | 8               |
| 9087            |                           |                  | 7          | Coil Slug Adjuster Tool |                |                |                |                |                 |
| 9088            |                           |                  | 8          | Stainless Steel         |                |                |                |                | 8               |
| 9089            |                           | 5120-00-043-3110 | 9          | Fiberglass              | 1/8            | 1/8            |                |                | 5-13/16         |
| 9090            |                           |                  | 10         | Butyrate                | 0.015          | #6             |                |                | 2-3/32          |
| 9091            |                           |                  | 11         | Delrin                  | 7/32           | 3/8            | 0.124          | 0.027          | 5               |

## ALIGNMENT TOOLS AND KITS (Cont.)



Fig. 1



Fig. 2



Fig. 3



Fig. 4



Fig. 5



Fig. 6



Fig. 7



Fig. 8



Fig. 9



Fig. 10



Fig. 11



Fig. 12



Fig. 13

### Alignment Tools

| Retail Part No. | Bulk Part No. 100 Package | N.S.N. Part No.  | Figure No. | Material        | End 1 (Inches) | End 2 (Inches) | End 3 (Inches) | End 4 (Inches) | Length (Inches) |
|-----------------|---------------------------|------------------|------------|-----------------|----------------|----------------|----------------|----------------|-----------------|
| 9091-L          |                           |                  | 1          | Delrin          |                | 0.124          | 0.027          |                | 11-3/32         |
| 9093            |                           |                  | 2          | Stainless Steel | Angled         |                |                |                | 8               |
| 9094            |                           |                  | 3          | Stainless Steel | 9/32           | 0.345          |                |                | 8               |
| 9150            |                           | 5120-00-410-5989 | 4          | Nylon           | 1/8            | 1/16           | 3/64           |                | 5-1/2           |
| 9291            |                           |                  | 5          | Fiberglass      | 0.030          | Handle         |                |                | 7               |
| 9293            |                           |                  | 6          | Delrin          | 1/32           | 1/32           |                |                | 12              |
| 9294            |                           |                  | 7          | Fiberglass      | 1/32           | 1/32           |                |                | 16              |
| 9295            |                           |                  | 8          | Fiberglass      | 3/8            | 1/4            |                |                | 11              |
| 9296            |                           |                  | 9          | Delrin          | 1/4            | 3/8            |                |                | 11              |
| 9297            |                           | 5120-00-932-7764 | 10         | Delrin          | 1/4            | 3/8            |                |                | 11-1/8          |
| 9300            |                           |                  | 11         | Delrin          | 1/4            | 3/8            |                |                | 5               |
| 9302            |                           | 5120-00-089-8216 | 12         | Delrin          | 0.078          | 0.1            |                |                | 5-3/8           |
| 9304            |                           |                  | 13         | Delrin          | 0.110          | 3/8            |                |                | 5-9/16          |

## ALIGNMENT TOOLS AND KITS (Cont.)



Fig. 1



Fig. 2



Fig. 3



Fig. 4



Fig. 5

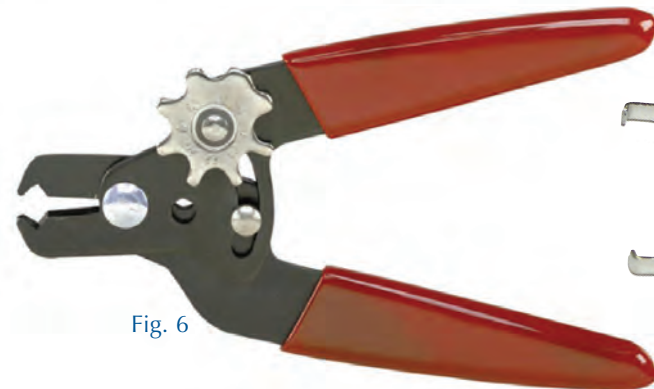


Fig. 6



Fig. 7



Fig. 8

### Alignment Tools (Cont.)

| Retail Part No. | N.S.N. Part No.  | Figure No. | Material | End 1 (Inches)           | End 2 (Inches) | End 3 (Inches) | End 4 (Inches) | Length (Inches) |
|-----------------|------------------|------------|----------|--------------------------|----------------|----------------|----------------|-----------------|
| 9337            |                  | 1          | Steel    | 0.120                    |                |                |                | 3               |
| 9338            |                  | 2          | Steel    | 0.250                    |                |                |                | 3               |
| 64-1832         |                  | 3          |          | Universal Fuse Puller    |                |                |                |                 |
| 9440            | 5120-00-920-1378 | 4          | Delrin   | 0.1                      | 1/16           |                |                | 5-1/16          |
| 10-8884         |                  | 5          |          | Pocket Oiler             |                |                |                |                 |
| 12-760          |                  | 6          |          | Strip-er-Clip            |                |                |                |                 |
| 12-4614         |                  | 7          | Steel    | (28-40) IC Pin Extractor |                |                |                |                 |
| Z-7614          |                  | 8          | PVC      | 0.3                      |                |                |                | 5-1/4           |

## ALIGNMENT TOOLS AND KITS (Cont.)



Fig. 1



Fig. 2



Fig. 3



Fig. 4



Fig. 5



Fig. 6



Fig. 7

### Alignment Tool Kits

| Retail Part No. | Fig. No. | N.S.N. Part No.  | Part Nos. in Kits*                                                                                                                                                                                                                                                          |
|-----------------|----------|------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 18-530          | 1        |                  | 5009, 5097, 8271, 8276, 8282, 9091, 9304, 9440                                                                                                                                                                                                                              |
| 580             | 2        | 5180-00-996-8673 | 2512, 2520, 2522, 8273, 8279, 8282, 8289, 8868, 9051, 9087, Z-7614                                                                                                                                                                                                          |
| 582             | 2        | 5180-00-868-3780 | 10-8883, 2512, 2520, 8279, 8282, 8289, 8728-A, 8867, 8868, 8869, 9051, 9088, 9291                                                                                                                                                                                           |
| 8280            | 2        | 5180-00-715-6062 | 5066, 5080, 5097, 8195, 8271, 8273, 8275, 8276, 8277, 8279, 8282, 8606, 8608, 8728, 9087                                                                                                                                                                                    |
| 8455            | 2        | 5180-00-760-2114 | 5004, 5097, 8195, 8271, 8273, 8275, 8276, 9087                                                                                                                                                                                                                              |
| 5050            | 3        | 5180-00-383-3200 | 10-8883, 12-760, 41-614, 64-1832, 2520, 5000, 5004, 5028 5090, 5090-P, 5097, 5101, 7948, 8195, 8271, 8275, 8276, 8277, 8282, 8605, 8606, 8606-L, 8721, 8728, 8728-A, 8867, 8868, 8869, 8987, 9077, 9091, 9091-L, 9093, 9094, 9293, 9295, 9296, 9300, 9302, 9304, 9338, 9440 |
| 5040            | 4        |                  | 2520, 5097, 8271, 8276, 8289, 8606, 8729, 8988, 9050, 9088, 9091, 9297                                                                                                                                                                                                      |
| 8283            | 5        | 5120-00-949-8368 | 5000, 5004, 5066, 5080, 5097, 8195, 8271, 8273, 8275, 8276, 8277, 8279, 8282, 8289, 8290, 8606, 8609, 8721, 8727, 8728-A, 8867, 9087, 9090                                                                                                                                  |
| 8454            | 6        |                  | 8282, 8606, 9091, 9300, 9304, Z-7614                                                                                                                                                                                                                                        |
| AS-5007         | 7        |                  | AS-5004, AS-8275, AS-8276, AS-8605, AS-8606, AS-8608, AS-9300, AS-9302, AS-9440                                                                                                                                                                                             |

\*Notes: All Part Nos. Used in Kits Are Not Available for Individual Use.

## IMPACT TOOLS



Fig. 1



Fig. 2

### Punch Down Tools and Blades

| Retail Part No. | Figure No. | Description                                                                                                        | Replacement Blades |
|-----------------|------------|--------------------------------------------------------------------------------------------------------------------|--------------------|
| 12-5700         | 1          | Professional Impact Tool Terminates/Cuts Wire on 66 and 110 Pin Blocks. Hi/Low Impact Adjustment. Blades Included. | Use #66 & #110     |
| 12-5701         | -          | #66 Replacement Blades                                                                                             | Blade 66           |
| 12-5702         | -          | #110 Replacement Blades                                                                                            | Blade 110          |
| 45-5631         | 2          | Professional 110 Push Down Tool Pushes Wire Down into 110 Blocks. No Adjustment. Blades Not Replaceable.           |                    |

## ADJUSTMENT/ALIGNMENT TOOLS



Fig. 3



Fig. 4



Fig. 5



Fig. 6



Fig. 7

### Adjustment/Alignment Tools

| Retail Part No. | Bulk Part No. | Figure No. | Description             | Tools                                                                  |
|-----------------|---------------|------------|-------------------------|------------------------------------------------------------------------|
| 12-575          |               | 3          | 2-in-1 Ceramic Adjuster | 1.8 mm Flat Blade and 3.0 mm Phillips                                  |
| 12-576          |               | 4          | 4-in-1 Ceramic Adjuster | 0.9 mm, 1.8 mm, 2.6 mm Flat Blades and 1.7 mm Phillips                 |
| 12-577          |               | 5          | Ceramic Adjuster Set    | 0.9 mm, 1.3 mm, 1.8 mm, 2.6 mm Flat Blades and 1.7 mm, 3.0 mm Phillips |
| 8378            |               | 6          | TV Service Mirror       | Mirror                                                                 |
| 8379            |               | 7          | TV Service Stand        | Mirror Stand                                                           |
| 8381            |               | 6 & 7      | Mirror and Stand Combo  | Stand and Mirror Set                                                   |

## STATIC DISSIPATIVE TWEEZERS



Fig. 1

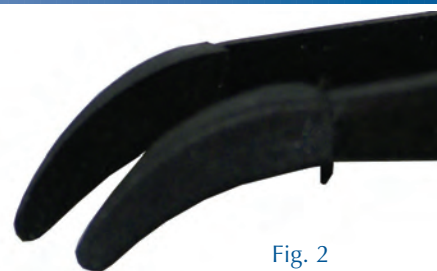


Fig. 2



Fig. 3

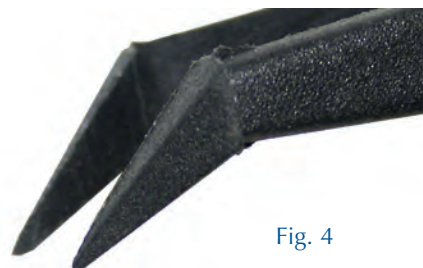


Fig. 4



Fig. 5



Fig. 6



Fig. 7



Tweezers (Full View)

### Static Dissipative Tweezers

| Retail Part No. | Bulk Part No. | Figure No. | Description                                                                                          | Length (Inches) |
|-----------------|---------------|------------|------------------------------------------------------------------------------------------------------|-----------------|
| 12-9511         |               | 1          | Static Dissipative, Non-metallic, Acid Resistant Plastic Tweezers with Straight, Flat, Rounded Tip . | 4-1/2           |
| 12-9514         |               | 2          | Static Dissipative, Non-metallic, Acid Resistant Plastic Tweezers with Curved, Rounded Tip.          | 4-1/2           |
| 12-9517         |               | 3          | Static Dissipative, Non-metallic, Acid Resistant Plastic Tweezers with Very Fine, Straight Tip.      | 4-1/2           |
| 12-9520         |               | 4          | Static Dissipative, Non-metallic, Acid Resistant Plastic Tweezers with Very Fine, Angular Tip.       | 4-1/2           |
| 12-9523         |               | 5          | Static Dissipative, Non-metallic, Acid Resistant Plastic Tweezers with Very Fine, Curved Tip.        | 4-1/2           |
| 12-9526         |               | 6          | Static Dissipative, Non-metallic, Acid Resistant Plastic Tweezers with Straight, Flat Tip.           | 4-1/2           |
| 12-9529         |               | 7          | Static Dissipative, Non-metallic, Acid Resistant Plastic Tweezers with Straight, Broad Flat Tip.     | 4-1/2           |

## TEST AND MEASUREMENT TOOLS



Fig. 1



Fig. 2



Fig. 3

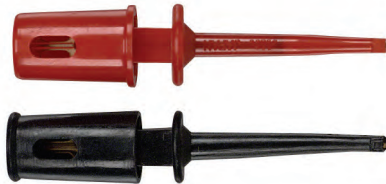


Fig. 4

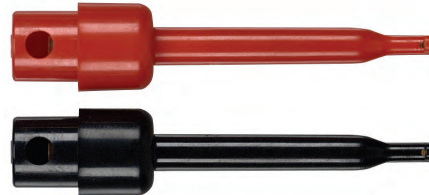


Fig. 5



Fig. 6



Fig. 7

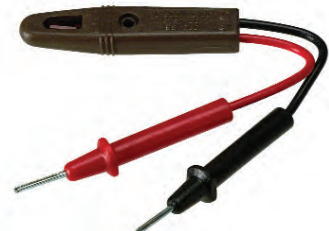


Fig. 8



Fig. 9



Fig. 10



Fig. 11

### Test and Measurement Tools

| Retail Part No. | Bulk Part No. | Figure No. | Description                      | Features                                                                                        |
|-----------------|---------------|------------|----------------------------------|-------------------------------------------------------------------------------------------------|
| 12-5705         |               | 1          | Tone Test Set                    | 1000 Hz or 500/1000 Alt. Tone, Checks for Shorts, Locates Broken Cables in Walls                |
| 12-5706         |               | 2          | Stationman Probe                 | Quickly and Easily Locates the Proper Cable Pair Containing the Tone Signal                     |
| 12-105          |               | 3          | Continuity Tester                | 42" Alligator Clip for Ground Connections                                                       |
| 12-1640         |               | 4          | Sub-miniature I.C. Test Clips    | Clips to Wires/Posts Up to .030" Diameter, 5/32" Travel, Rated: 500V AC/DC                      |
| 12-1642         |               | 5          | Miniature I.C. Test Clips        | Clips to Wires Up to #16 Wire, 1/8" Travel, Rated: 1500V AC 1 Minute                            |
| 12-1650         |               | 6          | "Jumper" Wire Test Leads         | 27 AWG, 2 Each, 15" Long Thin Leads with Mini Clips, 10 Jumpers                                 |
| 12-1655         |               | 6          | "Jumper" Wire Test Leads         | 21 AWG, Heavy Duty Leads, 1 Each, 22" Long Leads with Standard Size Clips, 5 Jumpers            |
| 12-1656         |               | 7          | Heavy Duty Test Leads            | Phone Tips to Banana Plugs 35" Leads 25 Ga. (20 x 38)                                           |
| 5101            |               | 8          | Test Light                       | Tests Both AC & DC Circuits (80V AC to 500V AC or DC)                                           |
| 5120            |               | 9          | High-Voltage Testing Screwdriver | Screwdriver/Tester Checks AC Voltage from 100 to 500V                                           |
| 5128            |               | 10         | Automotive Electrical Tester     | Tests "Hot" Leads in Vehicle Electrical Systems, Equipped w/18" Alligator Clip/Banana Plug Ends |
| 12-1716         |               | 11         | 6" Stainless Steel Rule          | 15/32" Wide, Graduations in 32nds and 64ths, Decimal Equivalents on Back                        |



Fig. 1



Fig. 2



Fig. 3



Fig. 4

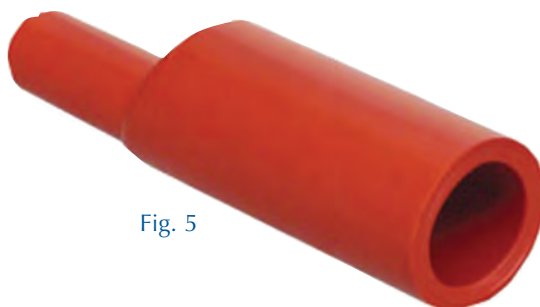


Fig. 5

### Alligator Clips

| Retail Part No. | Bulk Part No. | N.S.N. Part No.  | Figure No. | Description                             | Current Rating | Body Make-up        | Connection Type    | Jaw Opening (Inches (mm)) |
|-----------------|---------------|------------------|------------|-----------------------------------------|----------------|---------------------|--------------------|---------------------------|
|                 | 33-075-BU     | 5999-00-880-5534 | 1          | Alligator Clip with Red Vinyl Sleeve    | 5 Amps         | Nickel-plated Steel | Solder/Screw       | 5/16 (7.938)              |
|                 | 33-076-BU     | 5999-00-235-0214 | 1          | Alligator Clip with Black Vinyl Sleeve  | 5 Amps         | Nickel-plated Steel | Solder/Screw       | 5/16 (7.938)              |
|                 | 33-077-BU     | 5999-00-060-8996 | 2          | Miniature Alligator Clip                | 5 Amps         | Nickel-plated Steel | Solder             | 1/2 (12.700)              |
|                 | 33-078-BU     |                  | 3          | Alligator Clip                          | 5 Amps         | Nickel-plated Steel | Solder/Banana Plug | 3/8 (9.525)               |
|                 | 33-079-BU     |                  | 4          | Alligator Clip                          | 5 Amps         | Nickel-plated Steel | Screw/Banana Plug  | 3/8 (9.525)               |
|                 | 33-081-BU     |                  | 5          | Red Insulator Fits all Standard Sizes   |                | Molded Vinyl        |                    | Not Applicable            |
|                 | 33-082-BU     |                  | 5          | Black Insulator Fits all Standard Sizes |                | Molded Vinyl        |                    | Not Applicable            |

## TECHNICIAN TOOLS



Fig. 1



Fig. 2



Fig. 3



Fig. 4



Fig. 5



Fig. 6



Fig. 7



Fig. 8



Fig. 9

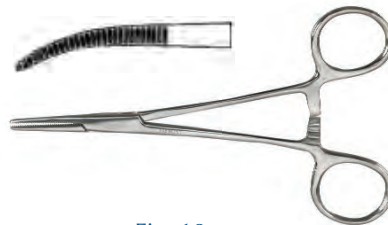


Fig. 10



Fig. 11



Fig. 12



Fig. 13



Fig. 14

### Technician Tools

| Retail Part No. | N.S.N. Part No.  | Figure No. | Description                      | Features                                              |
|-----------------|------------------|------------|----------------------------------|-------------------------------------------------------|
| 12-007          |                  | 1          | 17 Piece Precision Knife Set     | 3 Knife Handles, Common Blades, Magnetic Blade Holder |
| 12-008          |                  | 2          | Technician's Knife with 6 Blades | Knife Handle, Common Blades, Storage Tray             |
| 12-280          |                  | 3          | Miniature Scissors               | Extra Fine, 4-1/2" Overall                            |
| 12-284          |                  | 4          | Lab Scissors                     | Medium Weight, 5-1/2" Overall                         |
| 12-2260         |                  | 5          | Dental Probes                    | 5-1/2" Probe-Straight                                 |
| 12-2264         |                  | 5          | Dental Probes                    | 5-1/2" Probe-Hooked                                   |
| 12-2266         |                  | 5          | Dental Probes                    | 5-1/2" Probe-Curved                                   |
| 12-2270         |                  | 5          | Dental Probes                    | Set of 3 Probes                                       |
| 7946            |                  | 6          | Electronic Assembly Tweezers     | 6-1/2" Long, Self-closing, Blunt Points, Serrated     |
| 7947            |                  | 7          | Electronic Assembly Tweezers     | 6-1/2" Long, Slide Lock, Smooth Points                |
| 7948            | 5120-00-784-2890 | 8          | Electronic Assembly Tweezers     | 4-1/2" Long, Fine Points                              |
| 7950            | 5120-00-920-8420 | 9          | Tweezer Kit                      | Set of All 3 Tweezers                                 |
| 7976            |                  | 10         | Forceps                          | 5" Long, Straight Jaw                                 |
| 7977            |                  | 10         | Forceps                          | 6" Long, Straight Jaw                                 |
| 7978            |                  | 10         | Forceps                          | 5" Long, Curved Jaw                                   |
| 7979            |                  | 10         | Forceps                          | 6" Long, Curved Jaw                                   |
| 7992            |                  | 11         | Precision Quality Tweezers       | 4-5/8" Long, Beveled Points                           |
| 7993            |                  | 12         | Precision Quality Tweezers       | 4-1/8" Long, Fine Points                              |
| 7994            |                  | 13         | Precision Quality Tweezers       | 4-1/4" Long, Extra Fine Points                        |
| 7995            |                  | 14         | Precision Quality Tweezers       | 4-1/2" Long, Curved Points                            |

## SOLDER & SOLDER BRAID



Fig. 1



Fig. 2



Fig. 3



Fig. 4\*



Fig. 5\*



Fig. 6



Fig. 7

### Solder

| Retail Part No. | Bulk Part No. | Fig. No. | Description                                      | Gauge | Diameter | Spool Size | Tin/Lead Percentage | Length (Feet) | Color |
|-----------------|---------------|----------|--------------------------------------------------|-------|----------|------------|---------------------|---------------|-------|
| 6033            |               | 1        | 60/40 Rosin Core Solder                          | 20    | .032"    | 1/2 lb.    | 60/40               |               |       |
| 6039            |               | 1        | 60/40 Rosin Core Solder                          | 16    | .047"    | 1/2 lb.    | 60/40               |               |       |
| 6044            |               | 1        | 60/40 Rosin Core Solder                          | 14    | .062"    | 1/2 lb.    | 60/40               |               |       |
| 6034            |               | 1        | 60/40 Rosin Core Solder                          | 20    | .032"    | 1 lb.      | 60/40               |               |       |
| 6040            |               | 1        | 60/40 Rosin Core Solder                          | 16    | .047"    | 1 lb.      | 60/40               |               |       |
| 6045            |               | 1        | 60/40 Rosin Core Solder                          | 14    | .062"    | 1 lb.      | 60/40               |               |       |
| 6035            |               | 1        | Low-melt Solder                                  | 20    | .032"    | 1/2 lb.    | 63/37               |               |       |
| 6037            |               | 1        | Low-melt Solder                                  | 20    | .032"    | 1 lb.      | 63/37               |               |       |
| 6056            |               | 1        | Silver Bearing Solder                            | 20    | .032"    | 1/2 lb.    | 60/38/2             |               |       |
| 6059            |               | 1        | Silver Bearing Solder                            | 20    | .032"    | 1 lb.      | 60/38/2             |               |       |
| 9132            |               | 2        | Fine Line Solder-32 Tubes of Solder              | 20    | .032"    |            | 60/40               | 12            |       |
| H3-391          |               | 2        | Fine Line Solder-Carded                          | 20    | .032"    |            | 60/40               | 12            |       |
| 9134            |               | 2        | Standard Solder-32 Tubes of Solder               | 16    | .050"    |            | 60/40               | 6.5           |       |
| H3-390          |               | 2        | Standard Solder-Carded                           | 16    | .050"    |            | 60/40               | 6.5           |       |
| 12-5380         | 12-5380-BU    | 3        | Mini Solder                                      | 24    | .020"    |            | 60/40               | 25            |       |
| 13-9610         |               | 4*       | SnAg3Cu0.5Ni0.06Ge0.01 Solder                    | 20    | .032"    | 1/2 lb.    | Lead Free           |               |       |
| 13-9611         |               | 4*       | SnAg3Cu0.5Ni0.06Ge0.01 Solder                    | 16    | .047"    | 1/2 lb.    | Lead Free           |               |       |
| 13-9612         |               | 4*       | SnAg3Cu0.5Ni0.06Ge0.01 Solder                    | 14    | .062"    | 1/2 lb.    | Lead Free           |               |       |
| 13-9620         |               | 4*       | SnAg3Cu0.5Ni0.06Ge0.01 Solder                    | 20    | .032"    | 1 lb.      | Lead Free           |               |       |
| 13-9621         |               | 4*       | SnAg3Cu0.5Ni0.06Ge0.01 Solder                    | 16    | .047"    | 1 lb.      | Lead Free           |               |       |
| 13-9622         |               | 4*       | SnAg3Cu0.5Ni0.06Ge0.01 Solder                    | 14    | .062"    | 1 lb.      | Lead Free           |               |       |
| 13-9636         |               | 4*       | SnAg3Cu0.5Ni0.06Ge0.01 Solder                    | 23    | .023"    | 1/2 lb.    | Lead Free           |               |       |
| 13-9644         |               | 4*       | Sn96.5Ag3Cu0.5 Solder                            | 24    | .020"    | 1/5 lb.    | Lead Free           |               |       |
| 13-9630         |               | 5*       | Sn96.5Ag3Cu0.5 Solder                            | 24    | .020"    | .26 oz     | Lead Free           | 18            |       |
| 13-9631         |               | 5*       | SnAg3Cu0.5Ni0.06Ge0.01 Solder-Carded             | 16    | .047"    | tube       | Lead Free           | 7             |       |
| 13-9631-32      |               | 5*       | SnAg3Cu0.5Ni0.06Ge0.01 Solder-32 Tubes of Solder | 16    | .047"    |            | Lead Free           | 7             |       |

(\*=Requires less than 60W iron)

### Solder Braid

| Retail Part No. | Bulk Part No. | Figure No. | Description                                | Gauge | Width Solder/Braid | Spool Size | Tin/Lead Percentage | Length (Feet) | Color  |
|-----------------|---------------|------------|--------------------------------------------|-------|--------------------|------------|---------------------|---------------|--------|
| 12-5001         | 12-5001-BU    | 6          | 1 Reel of GC Solder and 1 Reel of GC Braid |       | .031"/.075"        |            | 60/40               | 20            |        |
| 12-5025         | 12-5025-BU    | 7          | GC Braid                                   |       | .025"              |            |                     | 5             | Silver |
| 12-5050         | 12-5050-BU    | 7          | GC Braid                                   |       | .050"              |            |                     | 5             | Gold   |
| 12-5075         | 12-5075-BU    | 7          | GC Braid                                   |       | .075"              |            |                     | 5             | Green  |
| 12-5100         | 12-5100-BU    | 7          | GC Braid                                   |       | .100"              |            |                     | 5             | Blue   |
| 12-5125         | 12-5125-BU    | 7          | GC Braid                                   |       | .125"              |            |                     | 5             | Brown  |
| 12-6025         | 12-6025-BU    | 7          | GC Braid                                   |       | .025"              |            |                     | 25            | Silver |
| 12-6050         | 12-6050-BU    | 7          | GC Braid                                   |       | .050"              |            |                     | 25            | Gold   |
| 12-6075         | 12-6075-BU    | 7          | GC Braid                                   |       | .075"              |            |                     | 25            | Green  |
| 12-6100         | 12-6100-BU    | 7          | GC Braid                                   |       | .100"              |            |                     | 25            | Blue   |
| 12-6125         | 12-6125-BU    | 7          | GC Braid                                   |       | .125"              |            |                     | 25            | Brown  |

## SOLDER TOOLS



Fig. 1



Fig. 2



Fig. 3

### Solder Tools

| Retail Part No. | Bulk Part No. | Figure No. | Description                                                | Features                                               |
|-----------------|---------------|------------|------------------------------------------------------------|--------------------------------------------------------|
| 12-031          |               | 1          | Soldering Kit (Not Recommended for Lead Free Solder)       | 30 W, Solder Aid Tool & Brush End                      |
| 12-055          |               | 2          | 30 W Soldering Iron (Not Recommended for Lead Free Solder) | Light Weight Iron, 117V AC, Comes with Replacement Tip |
| 12-056          |               |            | Replacement Tip for 12-055 & 12-031                        |                                                        |
| 12-5003         |               | 3          | Tip Tinner, 1 Ounce Can                                    | Sn 63/Pb 37, Helps Prolong Solder Iron Tip             |

## PORTABLE BUTANE SOLDERING IRONS AND TIPS



Fig. 4



Fig. 5



Fig. 6



Fig. 7



Fig. 8



Fig. 9



Fig. 10



Fig. 11



Fig. 12



Fig. 13



Fig. 14



Fig. 15



Fig. 16



Fig. 17



Fig. 18

### Portable Butane Solder Irons

| Retail Part No. | Bulk Part No. | Figure No. | Description                                   | Features                                            |
|-----------------|---------------|------------|-----------------------------------------------|-----------------------------------------------------|
| PSI-100         |               | 4          | Portable Butane Solder Iron PSI-100           | Portable Gas Soldering Tool, Adjustable Temperature |
| P-2-C           |               | 5          | Portable Butane Solder Iron P-2               | Variety of Tips Available, 90 Minutes of Operation  |
| 12-133          |               | 6          | 3 fl. oz. Aerosol Butane Gas for Solder Irons |                                                     |

### Ten Professional-Quality, Iron-plated Tips for PSI-100

| Retail Part No. | Bulk Part No. | Figure No. | Description    | Size           | Temperature Range |
|-----------------|---------------|------------|----------------|----------------|-------------------|
| PSI1            |               | 7          | Single Flat    | 1/32" (1.0 mm) | Up to 450°C/850°F |
| PSI2            |               | 8          | Single Flat    | 3/32" (2.4 mm) | Up to 450°C/850°F |
| PSI3            |               | 9          | Single Flat    | 1/8" (3.2 mm)  | Up to 450°C/850°F |
| PSI4            |               | 10         | Single Flat    | 3/16" (4.8 mm) | Up to 450°C/850°F |
| PSI5            |               | 11         | Double Flat    | 1/32" (1.0 mm) | Up to 450°C/850°F |
| PSI6            |               | 12         | Double Flat    | 3/32" (2.4 mm) | Up to 450°C/850°F |
| PSI7            |               | 13         | Double Flat    | 1/8" (3.2 mm)  | Up to 450°C/850°F |
| PSI8            |               | 14         | Double Flat    | 3/16" (4.8 mm) | Up to 450°C/850°F |
| PSI9            |               | 15         | Hot Blower Tip |                | Up to 450°C/850°F |
| PSI10           |               | 16         | Hot Knife Tip  |                | Up to 450°C/850°F |

### Professional-Quality, Iron-plated Tips for P-2-C

| Retail Part No. | Bulk Part No. | Figure No. | Description | Size           |
|-----------------|---------------|------------|-------------|----------------|
| PPT-1           |               | 17         | Single Flat | 1/32" (1.0 mm) |
| PPT-6           |               | 18         | Double Flat | 3/32" (2.4 mm) |

## PORTABLE BUTANE SOLDERING IRONS AND TIPS (Cont.)



Fig. 1

Fig. 2

Fig. 3

Fig. 4

Fig. 5

Fig. 6



Fig. 7

### Replacement Tips (for P-1K Kit)

| Retail Part No. | Bulk Part No. | Figure No. | Description    | Size           | Temperature Range |
|-----------------|---------------|------------|----------------|----------------|-------------------|
| T-1             |               | 1          | Solder Tip     | 1/32" (1.0 mm) |                   |
| T-2             |               | 2          | Solder Tip     | 3/32" (2.4 mm) |                   |
| T-3             |               | 3          | Solder Tip     | 1/8" (3.2 mm)  |                   |
| T-4             |               | 4          | Solder Tip     | 3/16" (4.8 mm) |                   |
| T-5             |               | 5          | Blow Torch Tip |                | 1260°C/2300°F     |
| T-7             |               | 6          | Hot Knife Tip  |                |                   |

### Portable Butane Solder Tool Kit

| Retail Part No. | Bulk Part No. | Figure No. | Description                                   | Kit Includes:                                                                                                                                                                                       |
|-----------------|---------------|------------|-----------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| P-2K-C          |               | 7          | Model P-2K Portable Butane Soldering Tool Kit | Portable Butane P-2 Soldering Tool, 3/32" (2.3 mm) Standard Soldering Tip, Hot Blow Tip (Heat Tip), Blow-torch Tip, Double Flat Tip, Tip Cleaning Sponge, Wire Hot-iron Stand, Plastic Storage Case |

## SOLDER PRODUCTION TOOLS



Fig. 8



Fig. 9



Fig. 10



Fig. 11



Fig. 12



Fig. 13

### Solder Production Tools

| Retail Part No. | Bulk Part No. | Figure No. | Description                                          |
|-----------------|---------------|------------|------------------------------------------------------|
| 9065            |               | 8          | 4 Piece Solder Aid Kit                               |
| 9069            |               | 9          | 6-1/2" Long Reamer and Scraper Tip (Plastic)         |
| 9073            |               | 10         | 6-1/2" Long Brush and Forked Tip (Plastic)           |
| 9074            |               | 11         | 6-1/2" Long Brush and Scraper Kit (Plastic)          |
| 9075            |               | 12         | 6-1/2" Long Straight Reamer and Forked Tip (Plastic) |
| 9475            |               | 13         | 5-3/4" Long Straight Reamer and Forked Tip (Wood)    |

## SOLDER PRODUCTION TOOLS (Cont.)



Fig. 1

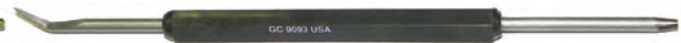


Fig. 2



Fig. 3



Fig. 4-A



Fig. 4-B



Fig. 4-C

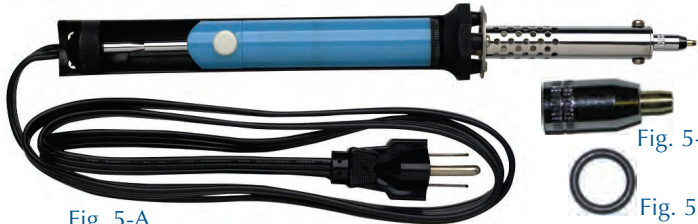


Fig. 5-A



Fig. 5-B



Fig. 5-C



Fig. 6



Fig. 7

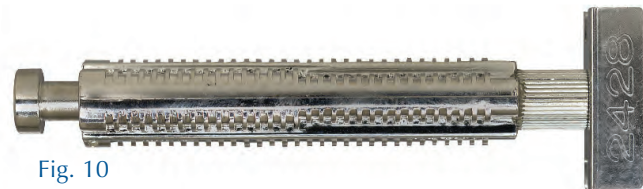


Fig. 10



Fig. 8

Fig. 9

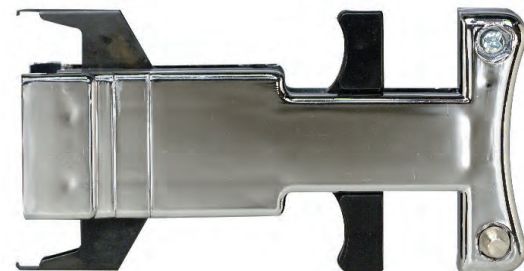


Fig. 11

### Solder Production Tools

| Retail Part No. | N.S.N. Part No.  | Figure No. | Description                                       |
|-----------------|------------------|------------|---------------------------------------------------|
| 9088            | 5120-00-611-7136 | 1          | 8" Long Heavy-Duty Brush and Forked Tip (Plastic) |
| 9093            | 3439-00-800-7989 | 2          | 8" Long Angle Reamer and Forked Tip (Plastic)     |
| 9086            |                  | 3          | Straight Reamer and Forked Tip                    |
| 12-2105         |                  | 4-A        | Anti-static Solder Removal Tool                   |
| 12-2106         |                  | 4-B        | Replacement "O" Rings for 12-2105                 |
| 12-2107         |                  | 4-C        | Replacement Tips for 12-2105                      |
| 12-2157         |                  | 5-A        | Solder Popper®                                    |
| 12-2160         |                  | 5-B        | Replacement Tips for 12-2157                      |
| 12-2161         |                  | 5-C        | Replacement "O" Ring Seal for 12-2157             |
| H3-388          |                  | 6          | Heat Sink Clamp                                   |
| 9077-1          |                  | 7          | Heat Sink Clamp                                   |
| 12-4125         |                  | 8          | Anti-static 8-28 Pin IC Inserter Tool             |
| 12-4126         |                  | 9          | Anti-static 8-28 Pin IC Extractor Tool            |
| 12-4127         |                  | 8 & 9      | Anti-static 8-28 Pin IC Extractor/Inserter Kit    |
| 12-4116         |                  | 10         | Anti-static Insertion Tool (14-16 Pin)            |
| 12-4128         |                  | 10         | Anti-static Insertion Tool (24-28 Pin)            |
| 12-4140         |                  | 10         | Anti-static Insertion Tool (36-40 Pin)            |
| 12-4612         |                  | 11         | 28-40 Pin Grounded Dip IC Extractor               |

## ESD/STATIC PROTECTION



Fig. 1



Fig. 2



Fig. 3



Fig. 4



Fig. 5



Fig. 6



Fig. 7



Fig. 8



Fig. 9

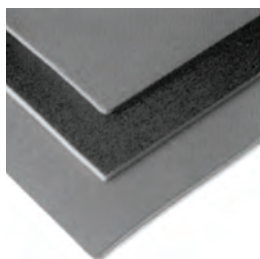


Fig. 10



Fig. 11



Fig. 12

### ESD/Static Protection

| Retail Part No. | Figure No. | Description                                   | Features                                                                     |
|-----------------|------------|-----------------------------------------------|------------------------------------------------------------------------------|
| 20-8004         | 1          | Medium to Large Wrist Strap                   | 10' Coil Cord, Banana Plug/Alligator Clip, 1 meg Ohm Resistance for Safety   |
| 12-8012         | 1          | GC Professional Adjustable Wrist Strap Kit    | 6' Coil Cord, 4 mm Snap Stud and Alligator Clip                              |
| 12-8013         | 1          | Wrist Strap Only                              | for 12-8012                                                                  |
| 12-8020         | 1          | Coil Cord Only                                | for 12-8012                                                                  |
| 12-8010         | 1          | Adjustable Economy Wrist Strap Kit            | 6' Coil Cord, 4 mm Snap Stud and Alligator Clip                              |
| 12-8011         | 1          | Wrist Strap Only                              | for 12-8010                                                                  |
| 12-8018         | 2          | Adjustable Economy Heel Grounder              | 2-Layer Rubber Composite Sole Material, 14.5" Conductive Ribbon              |
| 12-8055         | 3          | Combination Wrist Strap/Footwear Tester       | Indicates Low-pass or High Results                                           |
| 12-8056         | 3          | Combination Tester/Adapter                    | for 12-8055                                                                  |
| 12-8057         | 3          | Stand and Baseplate                           | for 12-8055                                                                  |
| 12-8058         | 3          | Footplate and Cord                            | for 12-8055                                                                  |
| 12-8050         | 4          | Touch Type on Demand Wrist Strap Tester       | Tests the Entire Circuit                                                     |
| 12-8051         |            | AC Adapter                                    | for 12-8050                                                                  |
| 12-8032         | 5          | Common Point Ground Cords for Bench Mats      | Custom Tailor Installation                                                   |
| 12-8024         | 5          | Ground Cords for Floormats with 10 mm Studs   | 10' Yellow Striped Green Ground Cord, Terminated w/#10 (.200") Ring Terminal |
| 12-8026         | 5          | Ground Cords for Floormats with 10 mm Studs   | Custom Tailor Installation (No Workstation)                                  |
| 12-8028         | 6          | 2 Pack, 10 mm Snap Sockets                    | for 12-8026                                                                  |
| 12-8029         | 6          | 2 Pack, 3/8" Push and Clinch 10 mm Snap Stud  | for 12-8026                                                                  |
| 12-8034         | 6          | 2 Pack, 10 mm Snap Socket Adapter             | for Use with ESD Grounding Mats, Adapts 10 mm Socket to 10 mm Socket         |
| 12-8030         | 7          | Dual Bench Mount                              | 2 Person Grounding                                                           |
| 12-8038         | 8          | Portable Field Service Kit                    | Work Surface, Wrist Strap, and Grounding Cord                                |
| 12-8042         | 9          | Dissipative Workstation Kit                   | Blue Bench Mat and Common Point Ground Cord                                  |
| 12-8043         | 9          | ESD Two Layer Workstation Mat (24" x 40")     | Use in Soldering or Assembly Area                                            |
| 12-8044         | 9          | Two Layer Workstation Kit (18" x 24")         | Common Ground Point (12-8032)                                                |
| 12-8045         | 9          | ESD Three Layer Workstation Mat (24" x 40")   | Use in Soldering or Assembly Area                                            |
| 12-8046         | 9          | Three Layer Workstation Kit (18" x 24")       | Common Ground Point (12-8032)                                                |
| 12-8048         | 9          | Floor Ground Kit (24" x 36")                  | Gray Floor Mat, 1 Ground Cord, 1 Snap Socket (12-8028)                       |
| 12-8047         | 10         | Anti-fatigue Dissipative Floor Mat (3' x 60") | Foamed Soft Mat                                                              |
| 12-8047-SNKT    |            | Universal Snap Kit                            | 10 mm Stud, 10 mm Socket, a Long and Short Screw                             |
| 12-8060         | 11         | Touch Type Wrist Strap Tester                 | AC Operation, Operates on Demand, Common Point Grounding Jacks for 2 Straps  |
| 12-8061         | 12         | Anti-static Packaging Tape                    | 1" Width                                                                     |
| 12-8062         | 12         | Anti-static Packaging Tape                    | 2" Width                                                                     |

## SPECIALTY TOOLS



Fig. 1



Fig. 2



Fig. 3



Fig. 4



Fig. 5



Fig. 6



Fig. 7



Fig. 8



Fig. 9

### Specialty Tools

| Retail Part No. | Bulk Part No. | Figure No. | Material                        | Features                                                                |
|-----------------|---------------|------------|---------------------------------|-------------------------------------------------------------------------|
| 22-423          |               | 1          | Long Reach Magnifying Work Lamp | 3-Diopter, 45" Reach                                                    |
| 22-425          |               |            | Replacement Bulb                | Replaces Bulb for 22-423                                                |
| 22-427          |               |            | Replacement Switch              | Replaces Switch for 22-423                                              |
| 12-5090         |               | 2          | Inspection Mirror               | 7" Long, Metal Shaft with Plastic Handle                                |
| 5093            |               | 3          | Miniature Inspection Mirror     | 4-1/8" Long, 3/4" Diameter, All Non-conductive                          |
| 12-053          |               | 4          | Extra Hands with Magnifier      | 2 Alligator Clips and 2" Magnifying Lens                                |
| 12-051          |               | 5          | Double Hand Holder              | 2 Alligator Clips, Can Be Used in Vise                                  |
| 41-616          |               | 6          | Miniature Vacuum Vise           | Use on Non-porous Surfaces, Opens to 1-3/4", 2.625"H x 2.25"W x 2.25"D  |
| 12-061          |               | 7          | Heavy Duty Swivel Vacuum Vise   | Use on Non-porous Surfaces, Tilts 180° Vertically and 360° Horizontally |
| 12-042          |               | 8          | Screw Holding Screwdriver       | Holds and Starts Screws from #2 to #10                                  |
| 12-047          |               | 9          | 9" Snap Lock Screw Starter      | Starts Phillips and Slotted Screws Up to 1/4"                           |

## SPECIALTY TOOLS (Cont.)



Fig. 1



Fig. 2



Fig. 3

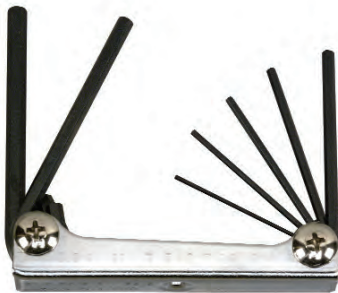


Fig. 4



Fig. 5



Fig. 6



Fig. 7



Fig. 9



Fig. 8



Fig. 10



Fig. 11

### Specialty Tools (Cont.)

| Retail Part No. | N.S.N. Part No.  | Figure No. | Material                                   | Features                                                                |
|-----------------|------------------|------------|--------------------------------------------|-------------------------------------------------------------------------|
| 5028            | 5120-00-585-6240 | 1          | Hex & Spline Wrench Kit                    | 12 Wrenches in Leatherette Case, Fits #2 to 3/8" Screws                 |
| 5029            |                  | 2          | Hexagon Key Wrench                         | 5 Wrenches, Fits #4 to 1/4" Set Screws and #2 to #8 Cap Screws          |
| 5070            | 5120-00-585-6257 | 3          | Spline Key Wrench                          | 6 Wrenches, Fits #4 to 1/4" Set Screws and #2 to #8 Cap Screws          |
| 9124            |                  | 4          | Pocket Hex Key Wrench Set                  | 6 Wrenches, 3/16" to 1/2", Nickel Chrome Alloy Steel                    |
| 9358            | 5120-00-88-4009  | 5          | Knurl Nut Wrenches                         | Tightens/Loosens Knurled Finish Nuts, Takes 1/2" Nuts                   |
| 9359            |                  | 5          | Knurl Nut Wrenches                         | Tightens/Loosens Knurled Finish Nuts, Takes 5/8" Nuts                   |
| 9337            |                  | 6          | Contact Burnishing Tools                   | Removes Oxide and Corrosion, .120" Wide Fineline                        |
| 9338            |                  | 6          | Contact Burnishing Tools                   | Removes Oxide and Corrosion, .25" Standard Width                        |
| 12-040          |                  | 7          | Taper Reamer                               | Enlarges Holes, Removes Burrs, Starts with 1/8" Hole, Tapers to 13/16"  |
| 12-650          |                  | 8          | Pin Extractor Tools                        | Removes Male or Female Pins for .062" Pins                              |
| 12-653          |                  | 8          | Pin Extractor Tools                        | Removes Male or Female Pins for .093" Pins                              |
| 9317            | 5950-01-046-7345 | 9          | UL Professional High-power Degaussing Coil | Eliminates Magnetic Field in CRT TV Picture Tubes and Monitors, 8' Cord |
| 12-4614         |                  | 10         | Spring Steel IC Extractor                  | Fits LSI, MSI, and SSI Devices from 8 to 24 Pins                        |

| Bulk Part No. | N.S.N. Part No. | Figure No. | Material | Features                          |
|---------------|-----------------|------------|----------|-----------------------------------|
| 10-272-BU     |                 | 11         | Wood     | I.C. Remover/ Stir Stick, 7" Long |

## SPECIALTY TOOLS (Cont.)



Fig. 1      **Note:** 0.01" ±10% Thickness

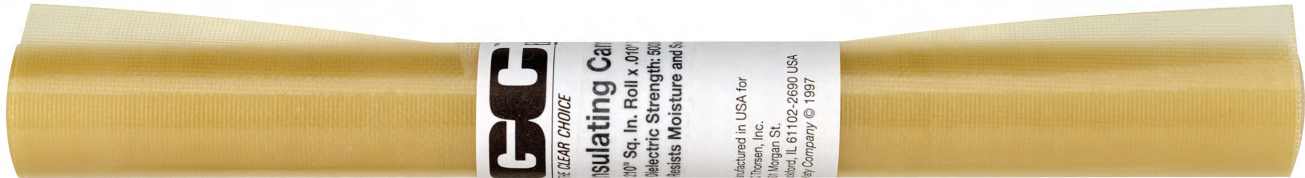


Fig. 2      **Note:** 210 sq. in. (9 in. wide)      • Dielectric Strength 5,000 V



Fig. 3



Fig. 4

Fig. 5

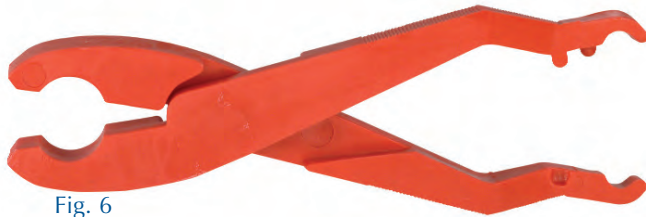


Fig. 6

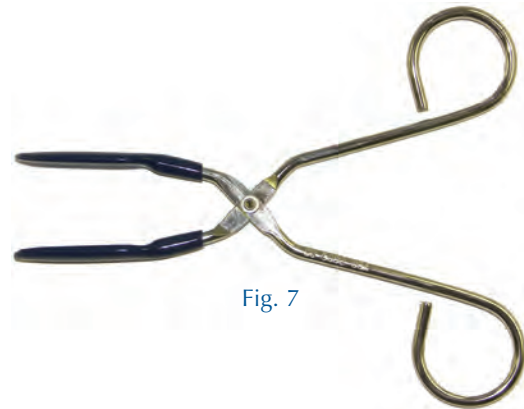


Fig. 7

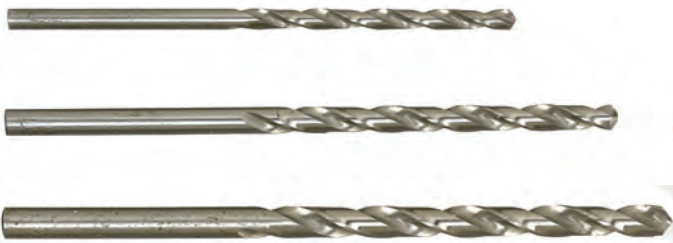


Fig. 8



Fig. 9

## Specialty Tools (Cont.)

| Retail Part No. | Bulk Part No. 100 Package | N.S.N. Part No.  | Figure No. | Material                        | Features                                                           |
|-----------------|---------------------------|------------------|------------|---------------------------------|--------------------------------------------------------------------|
| 560             | 560-100                   |                  | 1          | Fibroid "Fish Paper" 10" x 24"  | Vulcanized Cellulose Fiber for All Electrical Insulation           |
| 549             | 549-100                   |                  | 2          | Insulating Cambric              | Used to Insulate Transformers, Chokes, Resistors and Motors        |
| 12-1806         |                           |                  | 3          | Nibbling Tool                   | Cuts Metal and Non-brittle Plastic Up to 1/16", Steel Up to 18 AWG |
| 12-2018         |                           |                  | 4          | 8" Push/Pull Tool               | Hook/"S" Ends-Tool for Manipulating Drive Belts and Springs        |
| 12-2019         |                           |                  | 5          | 8" Push/Pull Tool               | Hook/"Fork Ends-Tool for Manipulating Drive Belts and Springs      |
| 9356            |                           | 5120-00-554-3372 | 6          | Duo-tongs Universal Fuse Puller | Shock Proof, Molded Nylon Universal Fuse Puller                    |
| 5092            |                           |                  | 7          | Tube/Parts Extractor            | Nickel Plated, Straight Insulated Jaws for Firm Grip               |
| 22-275          |                           |                  | 8          | Drill Bit Set                   | #66 Bit (.033"), #60 Bit (.04"), #1/16 Bit (.0625")                |
| 22-276          |                           |                  | 8          | Drill Bit Set                   | #31 Bit (.12"), #27 Bit (.144"), #3/32 Bit (.0938")                |
| 12-044          |                           |                  | 9          | Mini 5" Pick-up Tool            | Picks Up Parts in Inaccessible Places (Three Prong)                |

## UTILITY KNIVES

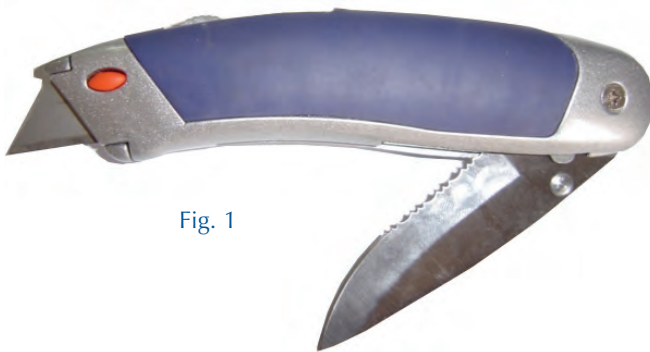


Fig. 1



Fig. 2



Fig. 3



Fig. 4

### Utility Knives

| Retail Part No. | Bulk Part No. | Figure No. | Description                         |
|-----------------|---------------|------------|-------------------------------------|
| 12-127          |               | 1          | Utility Knife with Fold-out Blade   |
| 12-126          |               | 2          | Automatic Loading Utility Knife     |
| 12-125          |               | 3          | Heavy Duty Snap Blade Utility Knife |
| 12-124          |               | 4          | Plastic Snap Blade Utility Knife    |

## UTILITY KNIFE REPLACEMENT BLADES



Fig. 5



Fig. 6



Fig. 7

### Utility Knife Replacement Blades

| Retail Part No. | Bulk Part No. | Figure No. | Description                                      |
|-----------------|---------------|------------|--------------------------------------------------|
| 12-122          |               | 5          | Utility Knife Blade Refill for 12-126 and 12-127 |
| 12-121          |               | 6          | Heavy Duty Snap Blade Refill for 12-125          |
| 12-120          |               | 7          | Snap Blade Refill for 12-124                     |

## NEW TOOLS & TOOL KITS



Fig. 1



Fig. 2



Fig. 3



Fig. 4



Fig. 5



Fig. 6



Fig. 7



Fig. 8

### Additional Tools and Kits

| Retail Part No. | Figure No. | Description                             | Contents                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | No. of Pieces |
|-----------------|------------|-----------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------|
| 12-6960         | 1          | Anti-static Wrist Strap                 | Conductive Velcro Band Made of Nylon, Coated on Inside with Conductive Carbon                                                                                                                                                                                                                                                                                                                                                                                                                                            | 1             |
| 12-6962         | 2          | Soldering Aid Kit                       | Standard Solder Aid Tools                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | 6             |
| 12-6964         | 3          | Cellular Phone Tool Kit                 | T-5, T-6, T-7 Star Drivers; Cover Opener, Security Driver, 0 Point Phillips, Panel Opener                                                                                                                                                                                                                                                                                                                                                                                                                                | 7             |
| 12-6966         | 4          | Soldering Iron                          | 100W, 5/16" Long Life Tip, Double Insulated, Comfort Handle                                                                                                                                                                                                                                                                                                                                                                                                                                                              | 1             |
| 12-6968         | 5          | Multi-media PC Cleaning Kit             | Spare Parts Tube, Mini Hammer, Flash Light w/Batteries, 3-piece Mini Phillips Screwdriver Set, Slip Joint Pliers, 4-piece Square Bit (#0, #1, #2, #3), 1 Socket Adapter, 2 Sets of 5-piece Sockets: (3/16", 1/4", 5/16", 11/32", 3/8") and (5mm, 6mm, 7mm, 8mm, 9mm), Knife, 6' (2m) Measuring Tape, 3-way Ratchet Driver, 3-piece Mini Flat Screwdriver Set, 2-piece Phillips Blade Bit (#1, #2), Comes in Vinyl Case                                                                                                   | 19            |
| 12-6970         | 6          | Electronic Hobby/Professional Tool Kit  | 1 Socket Adapter, Soldering Iron, IC Insertor 14-16 Pin ICS, 4-piece Precision Screwdriver, Reverse Action Tweezer, Curved Scribe/Scraper, 5" Long Nose Pliers, Mini box, IC Extractor, Solder Sucker, Extension Bar, 10-piece Bit Set, Solder Reel, 10 Cable Ties, 6" Adjustable Wrench, 3-claw Part Retriever, 4-1/2" Diagonal Pliers, 8" Crimp Tool, 9-piece Hex Key, Tweezers, 3-way Ratchet Driver, 2 Sockets: (3/16", 1/4"), Blow Molded Case                                                                      | 53            |
| 12-6972         | 7          | R & D/PC Master Tool Kit                | Spare Parts Tube, IC Insertor 24-28 Pin ICS, 1/4" Nut Driver, #1 Phillips Screwdriver, 1/8" Flat Screwdriver, 1/4" Flat Screwdriver, 5" Long Nose Pliers, Mini Reverse Action Tweezers, Scraper/Wire Brush, Scribe/Fork, Solder Sucker, Solder Iron, 8" Wire Stripper/Crimper, IC Extractor, 3/16" Nut Driver, #0 and #2 Phillips Screwdrivers, 3/16" Flat Screwdriver, T-10/T-15 Star Driver, Tweezers, 3-claw Part Retriever, Curved Scribe/Scraper, Heat Sink, Solder Reel, 6" Adjustable Wrench, Vinyl Zippered Case | 26            |
| 12-6974         | 8          | Electrical Service/PC Cleaning Tool Kit | Spare Parts Tube, 1/8" Flat Screwdriver, Tweezers, Cleaner/Anti-static, 3.5" Disk Drive Cleaner, 1 Reversible Star Bit Driver, 2 Reversible Slotted/Phillips Blade Bit: (3/16" #1 and 1/4" #2), Reversible Handle, 4-1/2" Diagonal Pliers, Cleaning Tools, Cleaning Paper, 5.25" Disk Drive Cleaner, #0 Phillips Screwdriver, 5" Long Nose Pliers, Cleaning Water, Cleaning Swabs, 3/16" and 1/4" Nut Bits, Vinyl Zippered Case                                                                                          | 19            |

## NEW SELF-STORING TOOLS



Fig. 1



Fig. 2



Fig. 3



Fig. 4



Fig. 5



Fig. 6



Fig. 7



Fig. 8



Fig. 9



Fig. 10



Fig. 11



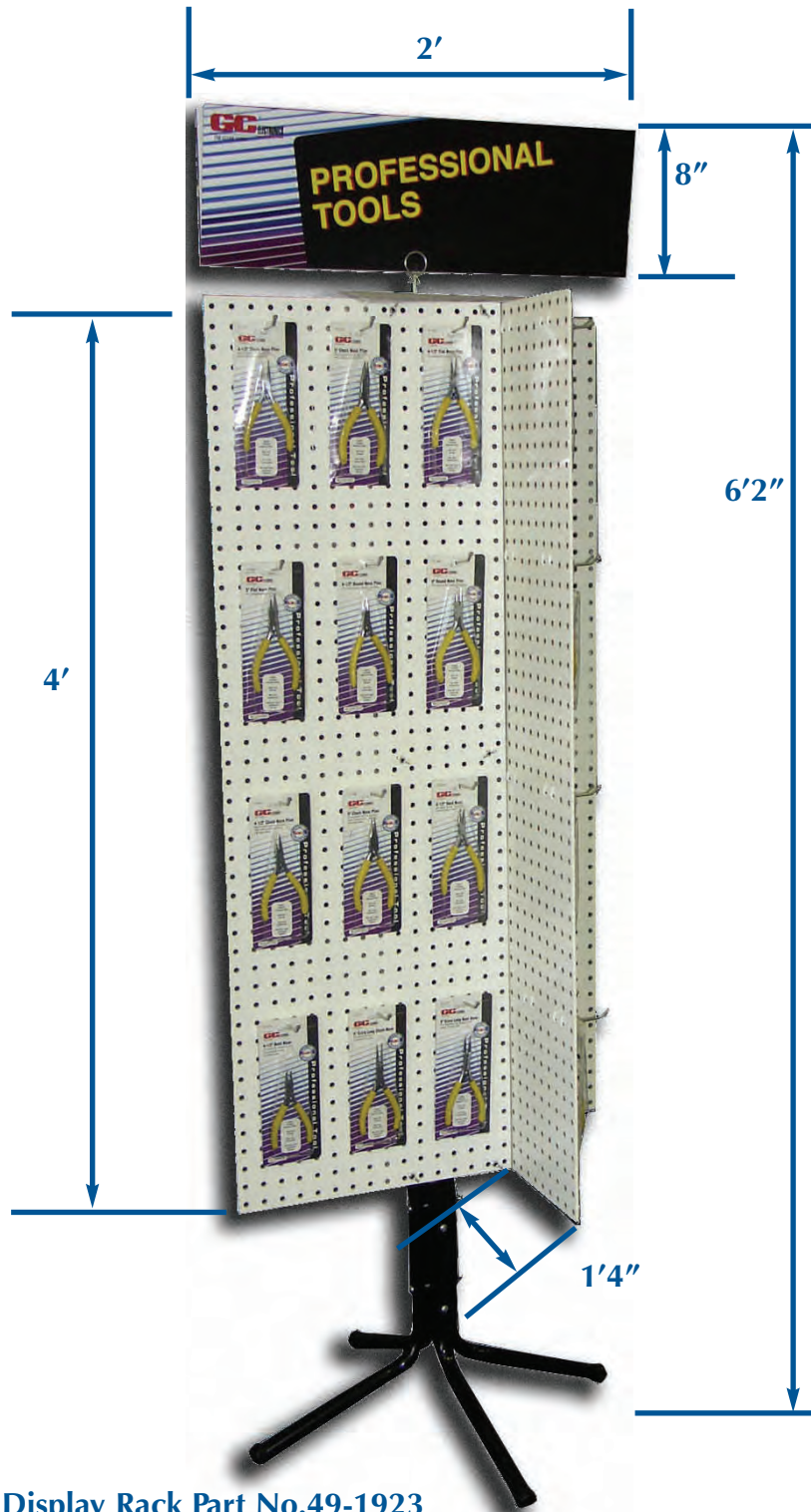
Fig. 12

### Self-Storing Tools

| Retail Part No. | Bulk Part No. | Bulk Part No. 12 Package | Fig. No. | Description                                        | Features                                                                  |
|-----------------|---------------|--------------------------|----------|----------------------------------------------------|---------------------------------------------------------------------------|
| 12-6980         |               | 12-6980-12               | 1        | Select-A-Drive Screwdriver                         | 1 Each: 3/16" & 1/4" Slotted, #1 & #2 Phillips, #2 Square, Torx T-15 Bits |
| 12-6984         |               | 12-6984-12               | 2        | Mini Select-A-Drive Screwdriver with Belt Clip     | 1 Each: 2 & 4 mm Slotted, 0 & 1 pt. Phillips, 0 pt. Square Bits           |
| 12-6986         |               | 12-6986-12               | 3        | SAE Select-A-Drive HEX Driver                      | 1 Each: 3/32", 7/64", 1/8", 9/64", 5/32", 3/16" Bits                      |
| 12-6988         |               | 12-6988-12               | 4        | Metric Select-A-Drive HEX Driver                   | 1 Each: 2mm, 2.5mm, 3mm, 4mm, 5mm, 6mm Bits                               |
| 12-6990         |               |                          | 5        | Phillips Select-A-Drive Replacement Bits, 2 Pieces | 1 Each: #1 & #2 Phillips Bits                                             |
| 12-6991         |               |                          | 6        | Slotted Select-A-Drive Replacement Bits, 2 Pieces  | 1 Each: 1/4" & 3/16" Slotted Bits                                         |
| 12-6992         |               |                          | 7        | Square Select-A-Drive Replacement Bits, 2 Pieces   | 1 Each: #1 & #2 Square Bits                                               |
| 12-6993         |               |                          | 8        | Torx Select-A-Drive Replacement Bits, 2 Pieces     | 1 Each: T-15 & T-20 Torx Bits                                             |
| 12-6994         |               |                          | 9        | SAE Socket-Silo 1/4" Ratchet Set                   | 1 Each: 1/4", 9/32", 5/16", 11/32", 3/8", 7/16", 1/2" Sockets             |
| 12-6995         |               |                          | 10       | Metric Socket-Silo 1/4" Ratchet Set                | 1 Each: 6mm, 7mm, 8mm, 9mm, 10mm, 11mm, 13mm Sockets                      |
| 12-6996         |               |                          | 11       | SAE Socket-Silo 3/8" Ratchet Set                   | 1 Each: 3/8", 7/16", 1/2", 9/16", 5/8", 11/16", 3/4" Sockets              |
| 12-6997         |               |                          | 12       | Metric Socket-Silo 3/8" Ratchet Set                | 1 Each: 10mm, 11mm, 13mm, 14mm, 15mm, 17mm, 19mm Sockets                  |

## TOOL PROGRAMS

- Tool Spinner Program 49-1923
- 49 Tool Part Numbers
- Spinner Program
- Crimpers, Strippers, Pliers, Cutters



**Display Rack Part No.49-1923**

- Tool Spinner Program 49-1923
- 49 Tool Part Numbers
- Spinner Program
- Crimpers, Strippers, Pliers, Cutters

### Program Contents:

| Part No.     | Quantity<br>Per Program | Quantity<br>Package | Description                                             |
|--------------|-------------------------|---------------------|---------------------------------------------------------|
| 12-001       | 2                       | 1                   | Professional Telco Crimp Tool, 8 Contact                |
| 12-002       | 2                       | 1                   | Modular Crimp Tool, 4 & 6 Contact                       |
| 12-004       | 2                       | 1                   | Telco Crimp Tool, 4 & 6 Contact                         |
| 12-005       | 2                       | 1                   | Metal Crimp Tool for Handset Plug                       |
| 12-088       | 2                       | 1                   | Standard 1 Piece Compression Tool                       |
| 12-155       | 2                       | 1                   | Fully Automatic Wire Stripper                           |
| 12-171       | 2                       | 1                   | Coax Stripper 2 Level                                   |
| 12-172       | 2                       | 1                   | Coax Stripper 3 Level                                   |
| 12-176       | 2                       | 1                   | Telco Line Cord Stripper                                |
| 12-178       | 2                       | 1                   | Multi-Function Wire Stripper                            |
| 12-197       | 2                       | 1                   | Round Cable Rotary Wire Stripper                        |
| 12-2475      | 2                       | 1                   | 7-1/2" Metal Ratcheting Crimp Tool for RJ11, RJ12, RJ45 |
| 12-400       | 2                       | 1                   | Crimping Tool with Terminal Assortment                  |
| 12-454       | 2                       | 1                   | Modular Crimp Tool                                      |
| 12-456       | 2                       | 1                   | Ratcheting Crimp Tool                                   |
| 12-460       | 2                       | 1                   | Crimping Tool for "D" Sub Connector                     |
| 12-461       | 2                       | 1                   | 6-1/2" Coaxial Cable Cutter                             |
| 12-462       | 2                       | 1                   | Round Cable and Wire Cutter                             |
| 12-464       | 2                       | 1                   | D-Sub/Double-D Service Tool                             |
| 12-466       | 2                       | 1                   | 4 Way Indent Crimper                                    |
| 12-531       | 2                       | 1                   | Coax Stripper for RG-59                                 |
| 12-5700      | 2                       | 1                   | Impact Punch Down Tool                                  |
| 12-7301      | 2                       | 1                   | 4-1/2" Chain-Nose Pliers                                |
| 12-7302      | 2                       | 1                   | 5" Chain-Nose Pliers                                    |
| 12-7303      | 2                       | 1                   | 4-1/2" Flat-Nose Pliers                                 |
| 12-7304      | 2                       | 1                   | 5" Flat-Nose Pliers                                     |
| 12-7305      | 2                       | 1                   | 4-1/2" Round-Nose Pliers                                |
| 12-7306      | 2                       | 1                   | 5" Round-Nose Pliers                                    |
| 12-7307      | 2                       | 1                   | 4-1/2" Chain-Nose Pliers-Serrated                       |
| 12-7308      | 2                       | 1                   | 5" Chain-Nose Pliers-Serrated                           |
| 12-7309      | 2                       | 1                   | 4-1/2" Bent-Nose Pliers                                 |
| 12-7310      | 2                       | 1                   | 4-1/2" Bent-Nose Pliers-Serrated                        |
| 12-7311      | 2                       | 1                   | 5" Extra Long Chain-Nose Pliers                         |
| 12-7312      | 2                       | 1                   | 5" Bent-Nose Pliers                                     |
| 12-7313      | 2                       | 1                   | 6" Extra Long Bent-Nose Pliers                          |
| 12-7314      | 2                       | 1                   | 5-3/4" Extra Long Needle-Nose Pliers                    |
| 12-7315      | 2                       | 1                   | 4-3/4" Long-Nose Side Cutter Pliers                     |
| 12-7321      | 2                       | 1                   | 4-1/2" Side Cutter, Semi-Flush                          |
| 12-7322      | 2                       | 1                   | 5" Side Cutter, Semi-Flush                              |
| 12-7323      | 2                       | 1                   | 4-1/2" Side Cutter, Full-Flush                          |
| 12-7324      | 2                       | 1                   | 5" Side Cutter, Full-Flush                              |
| 12-7325      | 2                       | 1                   | 4-1/2" Side Cutter, Tapered Semi-Flush                  |
| 12-7326      | 2                       | 1                   | 4-1/2" Side Cutter, Tapered Full-Flush                  |
| 12-7330      | 2                       | 1                   | 4-1/2" Flush Tip Cutter                                 |
| 12-7331      | 2                       | 1                   | 4-1/2" Mini Tapered Flush Cutter                        |
| 12-7332      | 2                       | 1                   | 4-1/2" Mini Oval Flush Cutter                           |
| 12-7333      | 2                       | 1                   | 6" Long-Nose Plier-Serrated Jaws                        |
| 12-9001      | 2                       | 1                   | Crimp Tool 22-10 AWG Insulated Terminal                 |
| 12-9021      | 2                       | 1                   | Crimp Tool RG-59, RG-6 "F" Type CAT 5                   |
| 49-449-10R   | 55                      |                     | 4" Hooks                                                |
| 49-1923-3    | 1                       |                     | Reorder Card Set                                        |
| 75-2040-R    | 1                       |                     | Rotary Rack                                             |
| GC-PKRM-7838 | 1                       |                     | Packing List & Road Map                                 |
| GC-HDR-7851  | 1                       |                     | 2' Crimp Tool Header                                    |
| GC-HDR-7879  | 1                       |                     | 2' Plier Tool Header                                    |

## TOOL PROGRAMS (Cont.)

- Professional Tool Program 49-1908
- 25 Tool Part Numbers
- 2 Foot Program
- Pliers



- Professional Tool Program 49-1908
- 25 Tool Part Numbers
- 2 Foot Program
- Pliers

### Program Contents:

| Part No.    | Quantity<br>Per Program | Quantity<br>Package | Description                            |
|-------------|-------------------------|---------------------|----------------------------------------|
| 12-7301     | 2                       | 1                   | 4-1/2" Chain-Nose Pliers               |
| 12-7302     | 2                       | 1                   | 5" Chain-Nose Pliers                   |
| 12-7303     | 2                       | 1                   | 4-1/2" Flat-Nose Pliers                |
| 12-7304     | 2                       | 1                   | 5" Flat-Nose Pliers                    |
| 12-7305     | 2                       | 1                   | 4-1/2" Round-Nose Pliers               |
| 12-7306     | 2                       | 1                   | 5" Round-Nose Pliers                   |
| 12-7307     | 2                       | 1                   | 4-1/2" Chain-Nose Pliers-Serrated      |
| 12-7308     | 2                       | 1                   | 5" Chain-Nose Pliers                   |
| 12-7309     | 2                       | 1                   | 4-1/2" Bent-Nose Pliers                |
| 12-7310     | 2                       | 1                   | 4-1/2" Bent-Nose Pliers-Serrated       |
| 12-7311     | 2                       | 1                   | 5" Extra Long Chain-Nose Pliers        |
| 12-7312     | 2                       | 1                   | 5" Bent-Nose Pliers                    |
| 12-7313     | 2                       | 1                   | 6" Extra Long Bent-Nose Pliers         |
| 12-7314     | 2                       | 1                   | 5-3/4" Extra Long Needle-Nose Pliers   |
| 12-7315     | 2                       | 1                   | 4-3/4" Long-Nose Side Cutter Pliers    |
| 12-7321     | 2                       | 1                   | 4-1/2" Side Cutter, Semi-Flush         |
| 12-7322     | 2                       | 1                   | 5" Side Cutter, Semi-Flush             |
| 12-7323     | 2                       | 1                   | 4-1/2" Side Cutter, Full-Flush         |
| 12-7324     | 2                       | 1                   | 5" Side Cutter, Full-Flush             |
| 12-7325     | 2                       | 1                   | 4-1/2" Side Cutter, Tapered Semi-Flush |
| 12-7326     | 2                       | 1                   | 4-1/2" Side Cutter, Tapered Full-Flush |
| 12-7330     | 2                       | 1                   | 4-1/2" Flush Tip Cutter                |
| 12-7331     | 2                       | 1                   | 4-1/2" Mini Tapered Flush Cutter       |
| 12-7332     | 2                       | 1                   | 4-1/2" Mini Oval Flush Cutter          |
| 12-7333     | 2                       | 1                   | 6" Long-Nose Pliers-Serrated Jaws      |
| 49-508-10R  | 30                      |                     | 2" Hooks                               |
| 49-1908-3   | 1                       |                     | Reorder Card Set                       |
| 75-2050-R   | 1                       |                     | 2' Display Rack                        |
| 75-3001-5R  | 2                       |                     | Brackets                               |
| 75-3001-6R  | 2                       |                     | 2 Sided Tape (5/8" x 8")               |
| GC-PK-6826  | 1                       |                     | Packing List                           |
| GC-RM-6842  | 1                       |                     | Roadmap                                |
| GC-HDR-7879 | 1                       |                     | Header                                 |

## TOOL PROGRAMS (Cont.)

- Professional Tool Program 49-1940
- 13 Tool Part Numbers
- 2 Foot Program
- Crimpers, Strippers



- Professional Tool Program 49-1940
- 13 Tool Part Numbers
- 2 Foot Program
- Crimpers, Strippers

**Program Contents:**

| Part No.     | Quantity<br>Per Program | Quantity<br>Package | Description                             |
|--------------|-------------------------|---------------------|-----------------------------------------|
| 12-171       | 3                       | 1                   | Coax Stripper 2 Level                   |
| 12-172       | 3                       | 1                   | Coax Stripper 3 Level                   |
| 12-176       | 4                       | 1                   | Telco Line Cord Stripper                |
| 12-178       | 3                       | 1                   | Multi-Function Wire Stripper            |
| 12-197       | 2                       | 1                   | Round Cable Rotary Wire Stripper        |
| 12-454       | 2                       | 1                   | Modular Crimp Tool                      |
| 12-461       | 6                       | 1                   | 6-1/2" Coax Cable Cutter                |
| 12-462       | 6                       | 1                   | Round Cable and Wire Cutter             |
| 12-464       | 3                       | 1                   | D-Sub/Double-D Service Tool             |
| 12-466       | 2                       | 1                   | 4 Way Indent Crimper                    |
| 12-5700      | 3                       | 1                   | Impact Punch Down Tool                  |
| 12-9001      | 2                       | 1                   | Crimp Tool 22-10 AWG Insulated Terminal |
| 12-9021      | 2                       | 1                   | Crimp Tool RG-59, RG-6 "F" Type CAT 5   |
| 49-449-10R   | 18                      | 1                   | 4" Hooks                                |
| 49-1940-3    | 1                       | 1                   | Reorder Card Set                        |
| 75-2050-R    | 1                       | 1                   | 2' Display Rack                         |
| 75-3001-5R   | 2                       | 1                   | Brackets                                |
| 75-3001-6R   | 2                       | 1                   | 2 Sided Tape                            |
| GC-HDR-7851  | 1                       | 1                   | Header                                  |
| GC-PKRM-7466 | 1                       | 1                   | Packing List & Road Map                 |

