TOOLS AND GAUGES
FOR
MAINTENANCE PURPOSES
IN
LOCAL MANUAL CENTRAL OFFICES
AND
MANUAL P.B.X.'S
REASONS FOR REISSUE AND CHANGES FROM ISSUE 13

1. To replace the No. 355-A tool by the No. 431-A tool.
2. To replace the No. 373 tool by the No. 373-B tool, and to add the No. 374-C tool for use with the No. 373-B tool.
3. To add the No. 418-A tool for use on the No. 35-C test set.
4. To add the No. 436-A tool for use on 221, 222, 223 and 224 type relays.
5. To add the No. 443-A tool for use in making connections to cord circuits.
6. To add the No. 445-A tool for use in removing dial card holder frames.
7. To add the KS-6367 wrench for use in mounting voltmeter relays.
8. To add 1 spring depressor to list of tools contained in the KS-6827 tool kit.
9. To add the KS-6980 tool for use on test cords.
10. To add the "W" notch diagonal pliers per specification 6433 for use in skinning distributing frame wire.
11. To replace the Nos. 37 and 38 gauges by the Nos. 37-B and 38-B gauges, respectively.
12. To add the Nos. 113-A, 114-A and 115-A gauges for use on 92 type jacks.
13. To make other minor changes as required to bring the specification up-to-date.

SECTION 1 - GENERAL

1.1 This specification replaces X-65518-01, issue 13 and the appendix to X-65518-01. It covers the tools and gauges required for the maintenance of apparatus in local manual telephone offices, including the apparatus used in relay call indicator, call indicator from step by step and key indicator equipment and also manual P.B.X.'s. It will be reissued every four months under dates of April 1, August 1 and December 1 to keep it up to date with tool and gauge changes.

1.2 Section 2 of this specification contains numerical lists of tools and gauges arranged by code number to facilitate ordering. The lists cover tools and gauges which are required for manual P.B.X.'s and manual offices. Those tools and gauges which are required in common battery offices are designated "C.B.", those which are required in magneto offices are designated "MAG.", and those which are required in manual P.B.X.'s are designated "T.B.X.".

1.3 In addition to listing the tools and gauges, in numerical order these lists also give a description, illustration and the uses of each tool and gauge.

1.4 Tools and gauges listed in this specification shall not be furnished on jobs except when ordered by the Telephone Company.

SECTION 2 - TOOLS AND GAUGES

2.1 GENERAL

2.11 The dimensions given in the description of the wrenches indicate in each case the size of the nuts that the wrench will fit.

2.12 Coded tools in parenthesis ( ) are replaced tools.

NUMERICAL LIST OF TOOLS

"1-A" LISTENING STICK
(C.B.)

For use in tuning the reed of 218-B relays

28 WRENCH - 1/4" HEX. SOCKET
(C.B. AND P.B.X.)

For use on protector nuts. Where 3/8" protectors are specified two of these tools are required

(34) Replaced by tool 216-B

(35) Replaced by tool KS-6854

*Order as the 1-A Listening Stick
§ 30-B LAMP SOCKET WITH 802 CORD
(C.B. AND P.B.X.)

For general use

39 ADJUSTER
(P.B.X.)

For use on drops

40 SCREW-DRIVER
(P.B.X.)

For use on drops

45 WRENCH - 5/16" HEX. SOCKET
(C.B. AND P.B.X.)

For use on 89, 101, 105, 108, 114, 124, 126, 172, 174, 198, 208 and 214 type relays and 155-A, 103 and 160 type interrupters

46 WRENCH - 3/8" HEX. SOCKET
(C.B. AND P.B.X.)

For use on 5 type message registers, 10 type buzzers and 89, 101, 172, 196 and 208 type relays

48 WRENCH - 7/32" AND 1/4"
HEX. SOCKET DOUBLE-END
AND SCREW-DRIVER
(C.B., MAG. AND P.B.X.)

For use on 1, 2 and 4 type buzzers, AC ringers and pivot type relays, 207, 243 type keys, 207, 213 type relays and precision type interrupter

50-B SPRING ADJUSTER
(Replaces C.B. AND P.B.X.)

For general use on relays.

§ Order as the 30-B Lamp Socket with 802 Cord
**Combination Screw-Driver and Pin Wrench (C.B. and P.B.X.)**

For use on 4, 6, 7, 10, 11, and 15 type jack fasteners

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**Wrench - 5/32" and 3/16" hex. socket double end and screw-driver**

(Combination of No. 147 and No. 403-A tools)

(First, C.B. and P.B.X.)

For use on 89, 101, 105, 106, 114, 115, 121, 122, 124, 125, 126, 129, 149, 152, 158, 178, 179, 180, 190, and 196 type relays and spring driven sequence switches

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**Wrench - 5/32" and 7/32"**

(Replaces HEX. OPEN DOUBLE-END FLAT Tool 75)

(First, C.B. and P.B.X.)

For general use

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**Cap Remover (C.B. and P.B.X.)**

For use on 5 type message registers
(92) Replaced by tool 276

(93) Replaced by tools 410-A and 410-B

102 WRENCH - 3/8" HEX. SOCKET
(C.B. AND P.B.X.)

For use on 105, 108 and 186 type relays, 5 type
message registers, 471 type keys.

103 COMBINATION PIN WRENCH, AND
SCREW-DRIVER
(C.B. AND P.B.X.)

For use on 16 type jack fasteners.

105 SPRING ADJUSTER
(MAG., C.B. AND P.B.X.)

For use on vertical type keys.

109 Replaced by tool KS-2348

110 WRENCH - 5/16" AND 9/32"
HEX. SOCKET DOUBLE-END
(P.B.X.)

For use on 20 and 40 type transmitter arms
and protector nuts.

111 JACK SPRING CLEANER
(C.B.)

For use on 182 type jacks.

113-B UNDERLINING AND MULTIPLE
MARKING REMOVER
Tool 113)
(C.B.)

Used to remove underlining and multiple
markings.

115 LAMP EXTRACTOR
(C.B. AND P.B.X.)

For removing 2 type lamps.

117 JACK TIP AND RING SPRING
ADJUSTER
(MAG., C.B. AND P.B.X.)

For use on 49 and 92 type jacks.

118 JACK RING SPRING ADJUSTER
(C.B. AND P.B.X.)

For use in conjunction with the 117 tool
on 92 type jacks.
123) Replaced by tool 407-A

124 SLEEVE TERMINAL LOCKING TOOL
(C.B. and P.B.X.)

For use in twisting the sleeve terminal of 49' type jacks to lock the sleeve in position.

125) Replaced by tool 319

129-B WRENCH - 1/4"
OPEN DOUBLE-END OFFSET
(MAG., C.B. AND P.B.X.)

For use on ringers in subscriber sets

130 SPRING ADJUSTER
(C.B. AND P.B.X.)

For adjusting the middle bank of springs on 125 and 179 type relays

133 SPRING CLEANING TOOL
(MAG. AND C.B.)

For cleaning protector springs

134 WASHER CLEANING TOOL
(MAG. AND C.B.)

For cleaning heat coil washers

135 COUPLING (MAG. AND C.B.)

For mounting the 134 tool on motor shaft

136-B RELAY ARMATURE BLOCKING TOOL
(Replaces Tool 136) 
(MAG., C.B. AND P.B.X.)

For blocking flat type relays

138 ADJUSTER 
(C.B. AND P.B.X.)

For use on the retractile spring lug of 6 type message registers

143 SPRING ADJUSTER 
(C.B. AND P.B.X.)

For use on horizontal type keys
147 SCREW-DRIVER - 3 1/8" (Part of Tool 72)

For replacement purposes

149 SPRING TREEZERS (Tool 77)

For holding wires to jack terminals while soldering

203 INDEX WHEEL HOLDER (C.B.)

For use on 155 type interrupters

206 SCREW-DRIVER - 20° OFFSET (MAG., C.B. AND P.B.X.)

For use on 186, 206, A, C, E, H, L, N, R and S type relays, 619 and C6 type keys

207 SCREW-DRIVER 90° OFFSET (MAG., C.B. AND P.B.X.)

For use with the 206 tool

208 WRENCH - 5/16" HEX. OPEN END OFFSET (C.B. AND P.B.X.)

For use on 46, A7, A10, A11, A15, A18, B2, B16, E1, E2, G5, Z37, 545, 499, 519 and 523 type keys

210 PLIERS (C.B.)

For removing the buttons of E1 type keys

211 PLIERS (C.B.)

For removing the buttons of 499 and 523 type keys
212 ADJUSTING KEY
(C.B.)

For turning the capstan head contact and pole-piece screws of 209 type relays

213 WRENCH - 15/32" HEX. SOCKET
(MAG., C.B. AND P.B.X.)

For use on 103 and 127 type plugs

215 SPRING ADJUSTER
(C.B.)

For use on 168 and 169 type switches

216-B WRENCH - 3/8" AND 7/16"
(Replaces HEX. SOCKET DOUBLE-END AND
Tools 54 DOUBLE-END SCREW-DRIVER
and 216) (MAG., C.B. AND P.B.X.)

For placing fuses in cable terminals and for connecting wires to fuses and binding posts

218-B "A" CAM SHORT CIRCUITING TOOL
(C.B.)

For use on 166 type interrupters

219 WRENCH - 5/16" HEX. SOCKET
(Part of Tool 221)

For use on 25 and similar type relays

220 WRENCH - 3/16" HEX. SOCKET
(Part of Tool 221)

For use on 25 and similar type relays

221 COMBINATION TOOL -
WRENCH - 5/16" HEX. SOCKET
WRENCH - 3/16" HEX. SOCKET
SCREW-DRIVER - 3 1/2"
(C.B. AND P.B.X.)

For use on 25 and 118 Type Relays
CAM CLEANER (C.B.)

For cleaning the cams on spring driven sequence switches, and 155 type interrupters

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S/P/RING ADJUSTER (C.B.)

For use on spring driven sequence switches, 155 type interrupters

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WRENCH - 9/16" HEX. OPEN-END OFFSET (C.B.)

For use on spring driven sequence switches, 155 type interrupters

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WRENCH - 3/16" AND 5/8" HEX. CLOSED DOUBLE-END FLAT (C.B.)

For use on 200 and 206 type selectors.

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WRENCH 3/8" AND 7/16" HEX. OPEN DOUBLE-END FLAT (C.B.)

For use on 155 type interrupter
264 RETRACTILE SPRING LUG ADJUSTER (C.B.)

For adjusting the retractile spring lug on 206 and 214 type relays.

265 Replaced by tool 265-B

265-B CONTACT BURKISHER
(Replaces MAG. C.B. AND P.B.X.)
Tool 265

For use on message registers for traffic purposes and similar apparatus and all types of relays except telegraph relays.

266 Replaced by tool 266-B

266-B CONTACT BURRISHER BLADE
(Part of MAG. C.B. AND P.B.X.)
(Replaces Tool 265) Tool 266)

For use with tool 265-B

267 Replaced by tool 267-B

267-B CONTACT SPRING INSULATOR (C.B.)
(Replaces Tool 267)

For use on 155 type interrupters.
268  
**SPRING ADJUSTER**  
(P.B.X.)  
For use on Stromberg Carlson relays

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269  
**SCREW-DRIVER**  
(P.B.X.)  
For use in mounting Stromberg Carlson relays

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270  
**SPRING ADJUSTER**  
(P.B.X.)  
For use in Stromberg Carlson relays and 171 type Interrupters

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274  
**SIGNAL PLUG EXTRACTOR**  
(C.B. and P.B.X.)  
For extracting signal plugs from multiple jacks

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276  
**WRENCH - 1/4" HEX. SOCKET**  
(Replaces Tool 92)  
For adjusting mounting nuts of 18 and 19 type resistances, 100 type Interrupters

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277  
**WRENCH - 1/4" HEX. OPEN END OFFSET**  
(Replaces Tool 92)  
For mounting nuts on 18 and 19 type resistances which have been wired in position

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300  
**SPRING ADJUSTER**  
(C.B. and P.B.X.)  
For use on 121, 122, 125, 149, 162, 179, D, E, F, G, H, R and T type relays, 160-A Interrupters

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301  
Replaced by tool R-63773

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302  
Replaced by tool 365

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303  
**SPRING ADJUSTER**  
(C.B. and P.B.X.)  
(Replaces Tool 234)  
For use on 200 type selectors, 177 and 203 type relays, 491 type keys, 206 type selectors and precision type Interrupters

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304  
Replaced by tool 344
305  WRENCH - 7/16" HEX. SOCKET - (Replaces one end of Tool 224)
For use on D-34393 key, 200 and 206 type selectors.

306  (Replaced by tool 417-A)

(307)  Replaced by tool 339

309  THREADED STUD (C.B.)
For use on test frame motors.

311  WRENCH - 3/8" AND 7/16" HEX. SOCKET (C.B. AND P.B.X.)
For use on 2 type dials and subset ringers.

312  CORD CUTTER (MAG., C.B. AND P.B.X.)
For use in repairing switchboard cords.

313  CONDUCTOR BRAID CUTTER (MAG., C.B. AND P.B.X.)
For use in repairing switchboard cords.
314  "U" SHAPED TWEETERS
(MAG., C.B. AND P.B.X.)
For removing the end pieces of braiding and reinforcements from cords and conductors after being severed by the 312 and 313 tools

315  CONDUCTOR PIERCER
(MAG., C.B. AND P.B.X.)
For piercing the conductors of tinsel conductor cords

316  PLUG REMOVER AND ATTACHER
(MAG., C.B. AND P.B.X.)
For removing 109 and 110 type plugs

317  PLUG REMOVER AND ATTACHER
(MAG.)
For removing 47 type plugs

319  LAMP CAP AND NUMBERPLATE
(Replaces EXTRACTOR Tools 87, 126, (C.B. AND P.B.X.) 146 and 319)
For use in removing 2 and 4 type lamps caps, 59, 60 and similar type number plates
(321) Replaced by tool 353

323 FLEXIBLE SHAFT
(MAG. AND C.B.)

Used with tool 133 for cleaning protector springs

325-B ADJUSTER
(C.B.)

For use on the release ratchet dog of 204 type selectors

(326) Replaced by tool 326-B

326-B ADJUSTER
(Replaces C.B.
Tool 326)

For use on L, N and S type relays

340 ADJUSTING KEY
(C.B. AND P.B.X.)

For use in turning the relay contact and pole-piece screws on 206 and 218 type relays

344 SCREW-DRIVER OFFSET
(Replaces C.B.
Tool 304)

For use on the magnet clamp screw of 200 and 206 type selectors.
345 JACK SLEEVE REMOVER AND REPLACER (C.B. AND P.B.X.)

For use on 92 type jacks.

349 WRENCH - 3/16" AND 7/32"

(Replaces HEL. CLOSED DOUBLE-END
Tools 208 and 231) (MAG., C.B. AND P.B.X.)

For use on 114, 124, 126, 174, 198, A, E, H,
and R type relays.

350 SPRING ADJUSTER (C.B. AND P.B.X.)

For adjusting the front contact spring on 89,
101, 105, 108, 118 and 172 type relays.

(353) Replaced by tool 355-B

LUBRICATOR (C.B.)

(Replaces Tools 353 and 355)

For use on spring driven sequence switches,
156 type interrupters.

355 BACK STOP ADJUSTER (C.B.)

For use on Kl type keys.

356 RETRACTIBLE SPRING AND MAGNET LEAD GUARD ADJUSTER (C.B.)

For use on Kl type keys.
359  MAGNET CORE AND ARMATURE
(Replaces
CLEANING TOOL
Tool 307)
(C.B.)
For use on 200 and 206 type selectors

360-A  SOCKET TYPE CORD TIP - RED
(MAG., C.B. AND P.B.X.)
For use in conjunction with 361-B, 364, 365 and other connecting tools provided with pin terminals

360-B  SOCKET TYPE CORD TIP - BLACK
(MAG., C.B. AND P.B.X.)
For use in conjunction with 361-B, 364, 365 and other connecting tools provided with pin terminals

360-C  SOCKET TYPE CORD TIP - WHITE
(MAG., C.B. AND P.B.X.)
For use in conjunction with 361-B, 364, 365 and other connecting tools provided with pin terminals

(361)  Replaced by tool 361-B

361-B  RELAY WINDING CONNECTOR
(Replaces
(MAG., C.B. AND P.B.X.)
Tool 361)
For use in conjunction with 360 tool for test purposes on E, R and similar type relays

362-A  Replaced by tool 361-A

363  SPRING ADJUSTER
(Replaces
(MAG., C.B. AND P.B.X.)
Tool 362)
For use on B and G type relays, message registers, 200 type selectors and 10 type buzzers, 206 type selectors

364  SPADE TERMINAL
(MAG., C.B. AND P.B.X.)
For use in conjunction with 360 tool for test purposes

365  SUSPENDER CLIP
(MAG., C.B. AND P.B.X.)
For use in conjunction with 360 tool for test purposes
371 SPRING ADJUSTER (MAG. AND C.B.)
(Replaces Tool R-59710)
For use on 177 and 203 type relays, D-34393 key, secondary clocks, 491 type keys

374-B CONTACT BURNISHER BLADE (MAG., C.B. AND P.B.X.)
For use with 373-B tool

372 WRENCH - 5/16" HEX. OPEN-END OFFSET (C.B.)
For adjusting the air-gap on 177 and 203 type relays

374-C CONTACT BURNISHER BLADE (MAG., C.B. AND P.B.X.)
For use with 373-B tool

375 Replaced by tool 373-B

373-B CONTACT BURNISHER HOLDER (MAG., C.B. AND P.B.X.)
(Replaces Tool 373)
For use on universal type keys and jacks.

376-A DENTAL MIRROR (MAG., C.B. AND P.B.X.)
(Replaces Tool R-1623)
For general use on relays and 200 and 206 type selectors.

379-A DRIVING SPRING LUG (MAG., C.B. AND P.B.X.)
(Replaces Tool R-63773)
For adjusting the driving spring lug of 200 and 206 type selectors.
384-A  PORTABLE PLUG POLISHER
(MAG., C.B. AND P.B.X.)
For use in conjunction with the 385-A, B and C tools for holding plugs while polishing.

385-A  PLUG CHUCK
(MAG. AND C.B.)
For use in conjunction with the 384-A tool for holding 47 type plugs.

385-B  PLUG CHUCK
(MAG., C.B. AND P.B.X.)
For use in conjunction with the 384-A tool for holding 137 and 152 type plugs.

385-C  PLUG CHUCK
(MAG., C.B. AND P.B.X.)
For use in conjunction with the 384-A tool for holding 109 and 110 type plugs.

387-A  RELAY WINDING CONNECTOR
(MAG. AND C.B.)
For use on 111 type relays.
398-A  
WRENCH - 3/16" AND 1/4"
HEX. OPEN DOUBLE END OFFSET  
(C.B. AND P.B.X.)

For use on 196 type relays

394-A  
CONTACT BURNISHER  
(C.B. AND P.B.X.)

For use on 141 and similar type jacks.

390-A  
PIN  
(C.B. AND P.B.X.)

For use in conjunction with tool 323 for cleaning flared portion of 92 type jack sleeves

395-A  
FEEDER BRUSH SPACER  
(C.B.)

For use on 200 and 206 type selectors

390-B  
PIN  
(C.B. AND P.B.X.)

For use in conjunction with tool 323 for cleaning flared portion of 49 type jack sleeves

401-A  
OIL GUN  
(C.B. and P.B.X.)

For lubricating No. 2 type dials
403-A  WRENCH 5/32" AND 3/16" HEX. (Part of Tool 72)  
SOCKET DOUBLE END (Mag. C.B. and P.B.X.)

For replacement purposes

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407-A  JACK SLEEVE REMOVER (Replaces Tool 123)  
(C.B. and P.B.X.)

For use in removing worn sleeves of 49 and 141 type jacks

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408-A  JACK MOUNTING COUNTER BORE (C.B. and P.B.X.)

For counter boring jack mountings to accommodate the shoulder of a replacement sleeve for worn 141 type jacks

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409-A  JACK SLEEVE CRIMPER (C.B. and P.B.X.)

For use in crimping replacement sleeves of 49 and 141 type jacks

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410-A  HARDWOOD WEDGE (Replaces Tool 93)  
(C.B. AND P.B.X.)

For lifting multiple cable.

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410-B  HARDWOOD WEDGE (Replaces Tool 93)  
(C.B. AND P.B.X.)

For lifting multiple cable.

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411-A  TEST PICK (MAG. C.B. AND P.B.X.)

For use in circuit testing

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414-B  AUTOMATIC HAMMER (C.B. AND P.B.X.)

For use in driving new jack sleeves into the jack mounting when replacing worn jack sleeves of 49 and 141 type jacks
415-A  SPRING ADJUSTER  
(C.B.)  
For use on horizontal (221) type relays

416-A  SPRING ADJUSTER  
(Replaces  
A.E.Inc.  
Tool 20777)  
For use on horizontal (221) type relays

417-A  WRENCH 1/4" AND 3/8"  
(Replaces HEX. OPEN DOUBLE-END FLAT  
Tool 306)  
For use on 200 and 206 type selectors

418-A  WRENCH 5/16" AND 7/32" HEX.  
OPEN DOUBLE-END FLAT  
(MAG., C.B. AND P.B.X.)  
For use on No. 35-C test sets

419-A  TEST CONNECTOR  
(MAG., C.B. AND P.B.X.)  
For use in making test connections to relay springs

422-A  SCREW DRIVER  
DOUBLE-END OFFSET  
(MAG., C.B. AND P.B.X.)  
For use on 122, 125 and similar type relays

423-A  SCREW DRIVER  
DOUBLE-END OFFSET  
(MAG., C.B. AND P.B.X.)  
For use on 122, 125 and similar type relays

424-A  FLYWHEEL PULLER  
(C.B.)  
For use in removing the flywheels of precision type interrupters
425-A  SELECTOR HOLDER
(C.B.)
For use in holding non-rigidly mounted
200 and 206 type selectors

428-A  RELAY WINDING CONNECTOR
(MAG., C.B. AND P.B.X.)
For use in conjunction with 360 tool on 99,
105 and similar type relays

429-A  KEY SUPPORT
(Replaces (MAG., C.B. AND P.B.X.)
Tool R9190)
For use in supporting universal type keys
while adjusting

431-A  OIL GUN
(Replaces Tool 362-A)
For use on 171 type interrupters

436-A  HEMIPiece ADJUSTING TOOL
(C.B. AND P.B.X.)
For use on 221, 222, 223 and 224 type relays

443-A  CORD SHELF CONNECTING TOOL
(MAG., C.B. AND P.B.X.)
For use in making connections to cord circuits

445-A  DIAL CARD HOLDER TOOL
(C.B. AND P.B.X.)
For use in removing dial card holder frames
KS-2348 CORD REPAIR SCREW-DRIVER
(Replaces Tool 109)

KS-2631 SCREW-DRIVER - 4-1/2" (MAG. C.B. AND P.B.X.)
For general use on relays and keys.

KS-2827 HEAT COIL PLIERS
(Replaces Tool 58)
For extracting heat coils.

KS-2993 CLEANING BRUSH (MAG. C.B. AND P.B.X.)
For use on keys and associated parts.

KS-2820 OIL AND GREASE GUN (C.B.)
For use on test frame motors.

KS-5263 CORD REPAIR TABLE (MAG. C.B. AND P.B.X.)
For use in repairing cords.
Supplied with 12' cord and an extension cord. When ordering, specify length of extension cord desired.

KS-6015 DUCK-BILL PLIERS (MAG. C.B. AND P.B.X.)
For general use.
KS-6283  WRENCH - 9/32" HEX. SOCKET  
(C.B.)

For use on spring driven sequence switches

KS-6278  SUSPENDER CLIP  
(MAG., C.B. AND P.B.X.)

For use in connection with the 360-A, B, and C tools.

KS-6320  ORANGE STICK  
(MAG., C.B. AND P.B.X.)

For general use

KS-6367  WRENCH - 7/16" AND 9/32" HEX.  
OPEN DOUBLE-END FLAT  
(C.B. AND P.B.X.)

For use in mounting voltmeter relays

KS-6527  JACK TOOL KIT  
(MAG., C.B. AND P.B.X.)

For use in removing pencil points and other  
foreign materials from switchboard jacks

This tool kit consists of the following devices:

1. Automatic Hammer
2. Auriscope
3. Special Elbow Light Holder
4. Shelf Devices
5. Spring Depressors
6. Probing Tools
7. Six-foot Two Conductor Cord equipped with  
Special Socket Type Connector on One End  
and Pin Terminals on the Other
8. Extra Surgical Lamp for the Auriscope
9. Extra Surgical Lamp for the Elbow Light Holder
10. Wooden Carrying Case

KS-6580  SUSPENDER CLIP  
(MAG., C.B. AND P.B.X.)

For use on test cords

KS-6854  SCREW-DRIVER - 3-1/2"  
(Part of Tool 281)  
(Replaces Tool 38)

For general use
R-1317  WRENCH 5/8" HEX.
OFFSET SOCKET
(C.B.)

For use on precision type interrupters.

R-1572  HAMMER - 4 OZ.
(MAG., C.B. AND P.B.X.)

For general use

R-1760  FRAME AND ARMATURE ADJUSTER
(C.B.)

For use on 200 and 206 type selectors

R-1770  WRENCH - 1/2" AND 9/16"
(Replaces HEX. OPEN DOUBLE-END
one end of FLAT
Tool R7940) (MAG., C.B. AND P.B.X.)

For use on 35-C test sets
R2262  WRENCH 5/32" AND 7/32"
HEX. OPEN DOUBLE-END FLAT
(C.B.)
For use on 85-F relays

(R7940) Replaced by tool R1770 (9/16" end only)
(R0190) Replaced by tools 429-A and 429-B
(R-839773) Replaced by tool 379-A
(R-869710) Replaced by tool 371
R-802356  SPRING CONTACT CLIP AND CORD
(C.B.)
For use on horizontal type relays

BELL SYSTEM REGULAR SCREW-DRIVER - 4"
PER A.T.& T. CO. DRAWING 46-X-34
(MAG., C.B. AND P.B.X.)
For general use

BELL SYSTEM REGULAR SCREW-DRIVER - 5"
PER A.T.& T. CO. DRAWING 46-X-34
(MAG., C.B. AND P.B.X.)
For general use

BELL SYSTEM CABINET SCREW-DRIVER - 3 1/2"
PER A.T.& T. CO. DRAWING 46-X-40
(MAG., C.B. AND P.B.X.)
For general use

BELL SYSTEM CABINET SCREW-DRIVER - 6 1/2"
PER A.T.& T. CO. DRAWING 46-X-40
(MAG., C.B. AND P.B.X.)
For general use

BELL SYSTEM P-LONG NOSE PLIERS - 6 1/2"
PER A.T.& T. CO. DRAWING 46-X-56
(MAG., C.B. AND P.B.X.)
For general use

BELL SYSTEM DIAGONAL PLIERS 5"
PER SPECIFICATION NO.6136-N
(MAG., C.B. AND P.B.X.)
For general use

For use on horizon tal type relays

For general use

For general use
Bell System P-Side Cutting Pliers - 6"
Per Specification 6335-N
(Mag., C.B. and P.B.X.)

For general use

Bell System P-Side Cutting Pliers - 8"
Per Specification 6335-N
(Mag., C.B. and P.B.X.)

For general use

Bell System "V" Notch Diagonal Pliers - 5"
Per Specification 6433

For use in skinning distributing frame wire

14768 Armature Adjuster (C.B.)

For use on horizontal (221) type relays

14769 Armature Back Stop Adjuster (C.B.)

For use on horizontal (221) type relays

20777 Replaced by tool 416-A

"These code numbers are A.E. Co. code numbers."
NUMERICAL LIST OF GAUGES

*2-A
TARGET
(MAG., C.B. AND P.B.X.)
For use in conjunction with the 11-A tuning fork in checking the speed of dials.

**10-A
TUNING FORK
(C.B.)
For use on precision type interrupters.

***11-A
TUNING FORK
(Replaces (MAG., C.B. AND P.B.X.) Tool 263)
For use in conjunction with the 8-A target in checking the speed of dials and spring driven sequence switches.

#12-A
TUNING FORK
(MAG., C.B. AND P.B.X.)
For use in checking the frequency of 156 type interrupters

28
LIMITING GAUGE
(P.B.X.)
For measuring the limit of wear on 110 type plugs

DEAD COLLAR
.160 .236 .242 TIP SLEEVE
WORN NO-110 PLUGS
NO-28

35
LIMITING GAUGE
(C.B. AND P.B.X.)
For measuring the limit of wear of 49 and 141 type jack sleeves

*Order as the 8-A Target
**Order as the 10-A Tuning Fork
***Order as the 11-A Tuning Fork
#Order as the 12-A Tuning Fork
37-B  THICKNESS GAUGE NEST
(Replaces .012", .024" AND .035"
Gauge 37)  (C.B. AND P.B.X.)
For gauging the armature gap on ringers

38-B  THICKNESS GAUGE NEST
 .012", .024", .035" AND .060"
(C.B. AND P.B.X.)
For gauging the armature gap on ringers

39  LIMITING GAUGE  (C.B. AND P.B.X.)
For measuring the limit of wear of 92 type jack sleeves

41  .034" THICKNESS GAUGE
(C.B. AND P.B.X.)
For gauging the gap between the back contact and armature feather spring of 114 and 198 type relays

42  .015" THICKNESS GAUGE
(C.B. AND P.B.X.)
For gauging the gap between the back contact and armature feather spring of 114 type relays

43  .012" AND .016"
THICKNESS GAUGE  (C.B. AND P.B.X.)
For gauging the armature gap on ringers
62-B  0-700 GRAM GAUGE
(Replaces (MAG., C.B. AND P.B.X.)
Gauge 62)

For measuring in grams the tension on the
springs of A-4, B-5, B-6, B-7, B-8, B-9,
B-15, 237, 242, 281, 370, 471, 479, 494, 495,
506 and 610 type keys, 4 type foot switches,
E, H, L, N, R and S type relays.

68-B  70-0-70 Gram Gauge
(Replaces (MAG. C.B. and P.B.X.)
Gauge 68)

For general use

66-A, 66-B  Replaced by gauge 66-D
and 66-C

66-D  THICKNESS GAUGE NEST
(Replaces (MAG., C.B. AND P.B.X.)
Gauge 66-C)

- 67-A .015"
- 67-B .020"
- 67-C .025"
- 67-D .030"
- 67-E .035"
- 67-F .040"
- 67-G .003"
- 67-H .004"
- 67-J .008"
- 67-K .005"
- 67-L .008"
- 67-M .010"
- 67-N .005"
- 67-O .045"

For measuring gaps on A, C, E, H, R and 105
type relays and I type buzzers.

67-A  .015"
67-B  .020"
67-C  .025"
67-D  .030"
67-E  .035"
67-F  .040"
67-G  .003"
67-H  .004"
67-J  .008"
67-K  .005"
67-L  .008"
67-M  .010"
67-N  .005"
67-O  .045"
(74-A, 74-B and 74-C) Replaced by gauge 74-D

74-D  THICKNESS GAUGE NEST  
(Replaces  (MAG., C.B. AND P.B.X.)  Gauge 74-C)

75-B  .003"  
75-C  .004"  
75-D  .005"  
75-E  .006"  
75-F  .008"  
75-G  .012"  
75-H  .016"  
75-J  .007"  
75-K  .009"  
75-L  .011"  
75-M  .010"  
75-N  .008"

For use on 200 type selectors, relays, keys, etc.

(77)  Replaced by gauge 77-B

77-B  .012" AND .014" THICKNESS GAUGE  
(Replaces  (C.B.)  Gauge 77)

For gauging the air-gaps on 207 relays

(79-A)  Replaced by gauge 79-C

79-A  0-1000 GRAM PUSH-PULL TENSION GAUGE  
(C.B.)

For measuring in grams the tension of springs on 200 type selectors, 520 type keys, 206 type selectors

79-B  0-2000 GRAM PUSH-PULL TENSION GAUGE  
(Replaces  (C.B.)  Gauge 79-A)

For measuring in grams the tension of springs of 200 and 206 type selectors, D-34300, 320 and 81 type keys and precision type interrupters.

79-D  0-6000 GRAM PUSH-PULL TENSION GAUGE  
(MAG., C.B., AND P.B.X.)

For gauging lever and plunger operate pressures on various keys.

79-E  0-3000 GRAM PUSH-PULL TENSION GAUGE  
(MAG., C.B. AND P.B.X.)

For gauging lever and plunger operate pressures on various keys.

87-A  .022" AND .040" DOUBLE-END THICKNESS GAUGE  
(C.B.)

For gauging gaps on Signal Engineering Co. relays
For gauging the gap between the back contact and armature feather spring on 114 and 198 type relays

For use in gauging gaps on 156 type interrupters

For gauging the max. air-gap between the armature and either pole-piece on 206 type relays

For use on 2.5 type relays

For gauging the armature travel and front contact make gaps on B and G type relays

For gauging No. 109 plugs.
107-A  .065" THICKNESS GAUGE
(C.B.)
For checking armature air-gap of 99
type relays

110-A  .004" AND .005"
DOUBLE-END THICKNESS GAUGE
(C.B.)
For use in measuring contact separation of 207
type relays. A container, KS-6502, has been
made available for carrying this gauge and is
furnished separately.

111-A  PLUG GAUGE
(MAG., C.B. AND P.B.X.)
For gauging No. 110 plugs

112-A  .040" AND .050" THICKNESS GAUGE
(Replaces (C.B. AND P.B.X.)
Gauge R-2228)
For gauging air-gaps on 200 and 206 type
selectors

113-A  CUT-OUT TEST PLUG
(C.B. AND P.B.X.)
For use on 92 type jacks

114-A  BUTT TEST PLUG
(C.B. AND P.B.X.)
For use on 92 type jacks

115-A  CROSS TEST PLUG
(C.B. AND P.B.X.)
For use on 92 type jacks
(KS-2872) Replaced by gram weights KS-6338

KS-6338 GRAM WEIGHTS
(Replaces Gram (C.B.) Weights KS-2872)

For checking the accuracy of gram gauges

KS-6909 THICKNESS GAUGE NEST
(Replaces .0015" AND .002" TO .005"
Part of CALIBRATION CHART, R-1981)

For general use

(KS-6938) Replaced by gauges KS-6909 and KS-6938

(R-2228) Replaced by gauge 112-A