KS-16363 AND KS-21232 WIRE-WRAPPING TOOLS AND ASSOCIATED BITS AND STATIONARY SLEEVES PIECE—PART DATA AND REPLACEMENT PROCEDURES

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Figures

1. GENERAL

1.01 This section covers the information necessary for ordering parts to be used in the maintenance of the KS-16363 and KS-21232 wire-wrapping tools, associated bits and stationary sleeves.

1.02 The reasons for reissuing this section are listed below. Since this reissue is a general revision, no revision arrows have been used to denote significant changes. The Equipment Test List is not affected.

(1) To rate the KS-16363, L1 and L2, wire—wrapping tools Mfr Disc.

(2) To add the KS-16363, L3, wire-wrapping tool

(3) To add the KS-21232, L1, electric wire-wrapping gun

(4) To add information for ordering bits and stationary sleeves for the KS-21232, L1, electric wire-wrapping gun.

1.03 The KS-16363, L2, wire-wrapping tool (Mfr Disc.) and the KS-16363, L3, wire-wrapping tool (Fig. 1 and 2) have universal hand tightened chucks which simplifies the attachment of the KS-20963 sleeve. This brings the KS-16363, L2, (Mfr Disc.) and L3 wire-wrapping tools into conformity with all other Bell System wire-wrapping tools. The old wire wrapping sleeves, KS-16363, L32 and L33, (Mfr Disc.) will not fit into the new chuck on the KS-16363, L2, (Mfr Disc.) or L3 wire-wrapping tools.

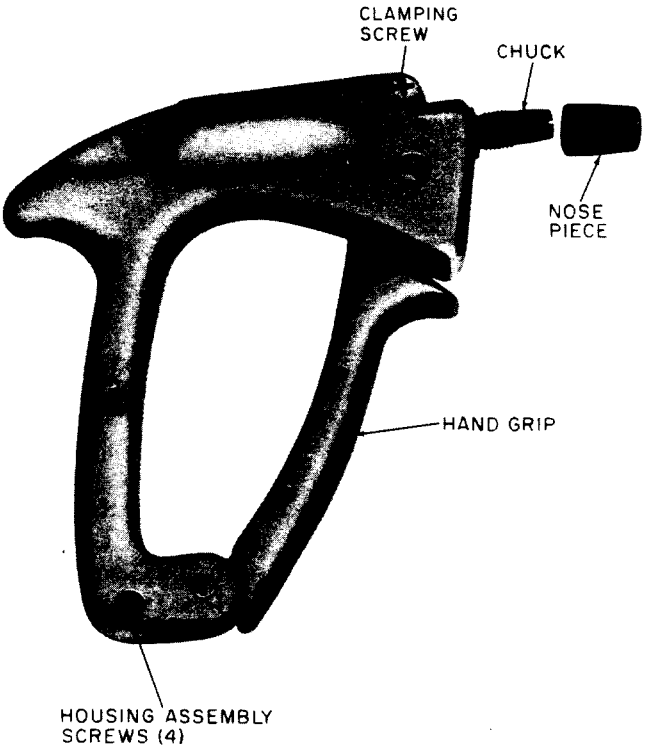

Fig. 1—KS-16363 Wire-Wrapping Tool

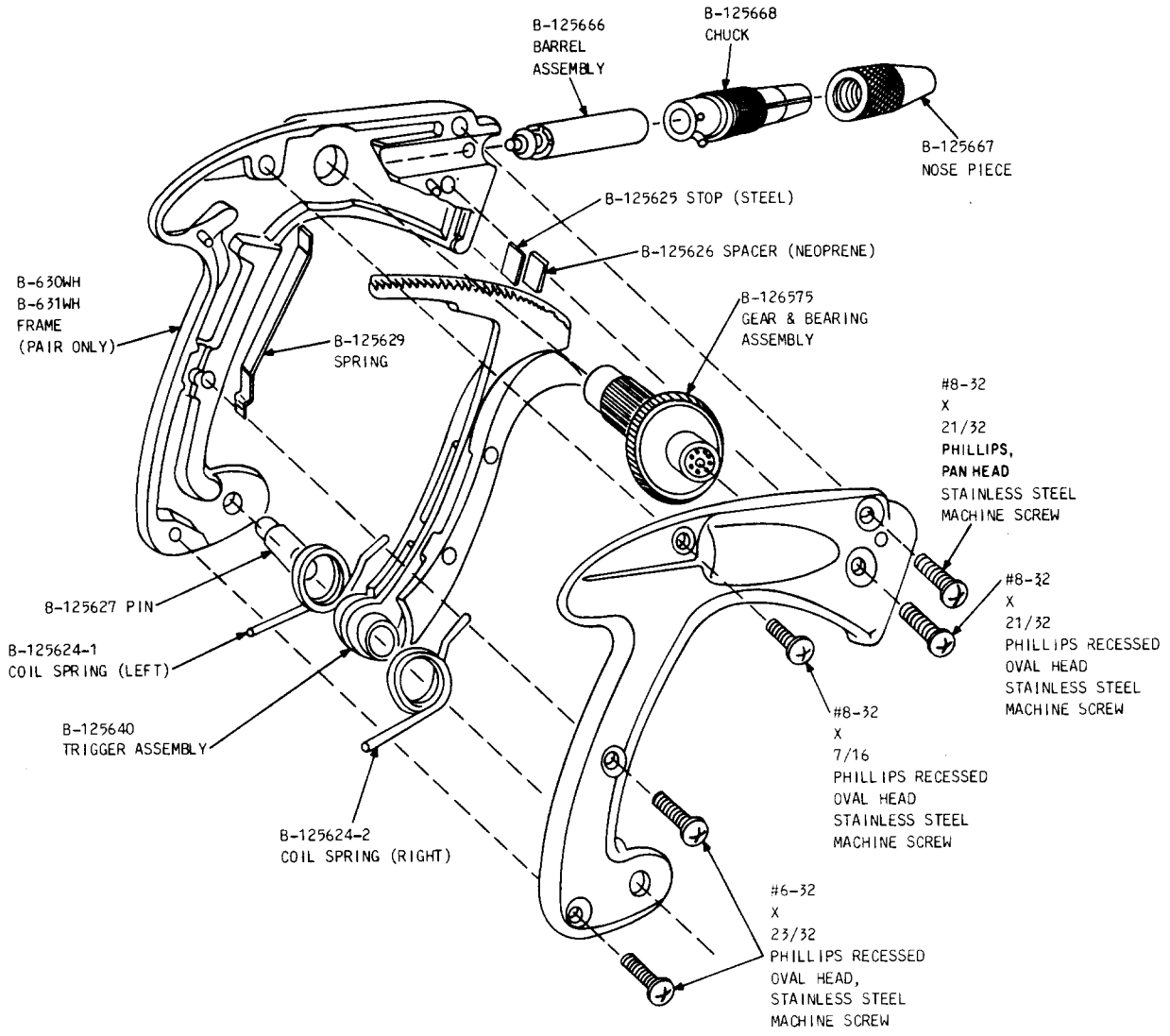

Fig. 2—KS-16363 Wire-Wrapping Tool—Exploded View

1.04 The KS-16363, L3, wire-wrapping tool is like the L2 (Mfr Disc.) except the L3 has a plastic housing for use on or near "live" equipment, and supersedes the L1 and L2 (Mfr Disc.) wire-wrapping tools, The KS-16363, L3, is intended for use in wrapping 22-, 24-, and 26-gauge wire. Bits and sleeves must be ordered separately.

1.05 The KS-21232, L1, electric wire-wrapping gun, Fig. 3, provides a reliable solderless wrap for 20- through 30-gauge wire. Wire-wrapping bits and sleeves are not part of the gun and must be ordered separately.

1.06 The KS-21232, L10, case, Fig. 4, is used for storing the KS-21232, L1, electric wire-wrapping gun. If desired, the KS-21232, L10, case must be ordered separately.

1.07 Part 2 of this section covers the piece-part numbers of the parts which it is practicable to replace in the field in the maintenance of the wire-wrapping tool. No attempt should be made to replace parts not designated. Part 2 also contains explanatory figures showing the parts.

Fig. 3—KS-21232, L1, Electric Wire-Wrapping Gun

Fig. 4—KS-21232, L10, Case

1.08 Part 3 of this section covers the approved procedures for the replacement of parts listed in Part 2.

2. PIECE-PART DATA

2.01 The figures included in this part show the various piece parts in their proper relation to other parts of the wire-wrapping tool. The piece-part numbers of the various parts are given together with the names of the parts listed by the Western Electric Company Merchandise Department. Where these names differ from those in general use in the field, the latter names in some cases are shown in parentheses.

2.02 When ordering parts of the KS-16363 wire-wrapping tool for replacement purposes, give both the number and name of the piece part and state that it is part of the wire-wrapping tool. For example:

B-125666 Barrel Assembly for KS-16363, L3, wire- wrapping tool

Do not refer to the BSP number or to any information shown in parentheses following the piece-part number.

2.03 The ordering information, identification, and use of the wrapping bits for the KS-16363 are listed below.

ORDERING INFORMATION	IDENTIFICATION	USE
KS-16903 L1	Band of yellow paint	For 26-gauge wire
*KS-16734 L1	Band of red paint	For 22- and 24-gauge wire

* The KS-16734 L1 wrapping bit for wrapping both 22- and 24-gauge wires replaces the KS-16548 L1 and KS-16522 L1 wrapping bits. However, existing KS-16548 L1 and KS-16522 L1 wrapping bits may be used for wrapping 22- and 24-gauge wires, respectively.

2.04 The ordering information, identification, and use of the stationary sleeves are given below:

ORDERING INFORMATION	IDENTIFICATION	USE
KS-20963 L2	Red sleeve	For 22- and 24-gauge wires
KS-20963 L3	Yellow sleeve	For 26-gauge wire

2.05 Bits and sleeves having the same color code as indicated by a painted bond on the bit or a plastic band on the sleeve are used together.

2.06 Bits and sleeves currently standardized for 22-, 24-, and 26-gauge wire may be used in the KS-21232, L1, electric wire-wrapping gun. Bits and sleeves for 28- and 30-gauge wire are available commercially as listed below:

WIRE GAUGE	WRAPPING BIT	WRAPPING SLEEVE
22	Bit, Wrapping, KS-16734 L1	Sleeve, Wrapping, KS-20963 L2
24	Bit, Wrapping, KS-16734 L1	Sleeve, Wrapping, KS-20963 L2
26	Bit, Wrapping, KS-16903 L1	Sleeve Wrapping, KS-20963 L3
28*	Gardner-Denver Co. #509278 or OK Tool & Machine Co. #WB28SHM	Gardner-Denver Co. #507100 or OK Tool & Machine Co. #P3032
30*	Gardner-Denver Co. #507063 or OK Tool & Machine Co. #WB30SHM	Gardner-Denver Co. #507100 or OK Tool & Machine Co. #P3032
30**	Gardner-Denver Co. #501381 OK Tool & Machine Co. #WB30MLD	Sleeve, Wrapping KS-20963 L3

* for .025 square terminal
** for .045 square terminal

3. REPLACEMENT PROCEDURES

3.01 *List of Tools*

SPEC NO.	DESCRIPTION
KS-2663	File
AT-7825	4-inch E screwdriver
AT-7739	1B screwdriver
AT-7739	2B screwdriver

KS-16363, L1, (Mfr Disc.) Wire-Wrapping Tool

3.02 ***Wrapping Bit and Stationary Sleeve***

(1) Place the wrapping tool on a flat surface with the clamping screw upward. Loosen the clamping screw with the 4-inch E screwdriver and withdraw the bit and sleeve from the barrel.

(2) Substitute a new bit and/or sleeve, as required. Mount the parts in the barrel and position them to meet the requirements covering alignment of wrapping bit and position and alignment of stationary sleeve covered in Section 075-120-701.

3.03 ***Barrel Assembly***

(1) Remove the wrapping bit and stationary sleeve, as covered in paragraph 3.02, if these parts are mounted in the wrapping tool.

(2) With the tool on a flat surface and the clamping screw upward, loosen the clamping screw with the 4-inch E screwdriver and the screw nearest the clamping screw with the No. 2B screwdriver. Turn the tool over and remove the barrel retaining screw with the No. 1B screwdriver. Withdraw the barrel assembly from the tool housing.

(3) In mounting the new barrel, it is necessary to mesh the barrel pinion with its mating gear so the pinion shaft will position the wrapping bit to meet the requirement covering alignment of wrapping bit. Therefore, mount the barrel assembly with a wrapping bit in the barrel, as covered in (4) and (5).

(4) Hold the barrel pinion stationary and insert the wrapping bit in the barrel. Rotate the bit until the flat on the bit engages the flat on the barrel pinion shaft. Facing the slit end of the barrel, hold the barrel so the retaining screw hole is at the right. Rotate the bit and pinion until the slot in the bit is in alignment with the slit in the top of the barrel. With the hand grip in the unoperated position and the slot in the bit in alignment with the slit in the barrel, fully insert the barrel in the housing so the pinion engages its mating gear.

(5) While holding the bit firmly in place, align the barrel retaining screw hole with the corresponding hole in the housing. Insert and securely tighten the barrel retaining screw.

KS-16363, L2 and L3, Wire-Wrapping Tools

3.04 ***Parts Inside Tool Housing:*** In order to replace parts which are mounted inside of the housing, place the wire-wrapping tool on a flat surface. Remove the clamping screw and the four housing assembly screws using the No. 2B screwdriver. Carefully separate the two halves of the housing. If necessary, gently pry them apart with the 4-inch E screwdriver at the sections adjacent to the clamping screw hole and near the pivot pin. Take care not to burr the edges of the housing. If a burr should be formed, remove it using the KS-2663 file. As the two halves are separated, take care not to lose the parts which may drop from the housing (metal stop, bumper, and bumper spring shown in Fig. 2).

3.05 ***Assembling the Housing:***

(1) Before assembling the halves of the housing, clean and lubricate the parts as covered in Section 075-120-701.

(2) Assemble the halves of the housing as follows. Place the right half of the housing (Fig. 2) on a flat surface. Make sure the bevel gear and other parts are assembled in the right half of the housing, as shown in Fig. 2. Make sure the hand grip restoring spring on the upper end of the pivot pin is positioned with the slightly offset end of the spring in the recess in the hand grip. Hold the other half of the housing in a tilted position so the outer end of the restoring spring lies in its recess in this half. Then, keeping the end of the spring in the recess, carefully position this half of the housing on the other half so the hand-grip pivot pin fully enters its hole and the dowels in one half of the housing enter their holes in the other half. Insert and moderately tighten all of the housing screws and then securely tighten the screws. This is necessary since fully tightening one screw with the others loose may cause binding of the hand grip.

KS-21232, L1, Electric Wire-Wrapping Gun

3.06 When ordering the KS-21232, L1, electric wire-wrapping gun, (Fig. 3), use the KS-21232, L1, number and also the Comcode No. 401-849-609.

3.07 The KS-21232, L10, case (Fig. 4) is available for storing the KS-21232, L1, wire-wrapping gun, but must be ordered separately. When ordering the case, use the KS-number and the Comcode No. 401-991-120.