

## ADJUSTERS IV DESCRIPTION TOOLS

### 1. GENERAL

**1.01** This section describes coded and noncoded Bell System adjuster tools within the part or type number range of 610 through 711 and KS-19355 through KS-20481.

**1.02** This section is reissued to revise the format and rate the 619A tool Mfr Disc. Since this is a general revision, no revision arrows have been used to denote significant changes. The Equipment Test List is not affected.

**1.03** See tool index for other adjuster practices.

**1.04** Replacement tools are indicated adjacent to the following tools that have been Mfr Disc.

TOOLS	REPLACEMENT
610A	610B
619A	—
764A	KS-20929, L3
765A	KS-20929, L3 and L4
766A	KS-20929, L1 and L2
D-167912	671A
D-178347	648A
KS-19355, L2	KS-19355, L3
KS-20113, L1	KS-20113, L2
KS-20481, L1	KS-19355, L6

### 2. DESCRIPTION OF TOOLS

**2.01 610B:** The 610B tool (Fig. 1) is an adjuster used in adjusting gain potentiometers in voice frequency jack panels of L-type Multiplex Systems. The 610B tool replaces the 610A tool.

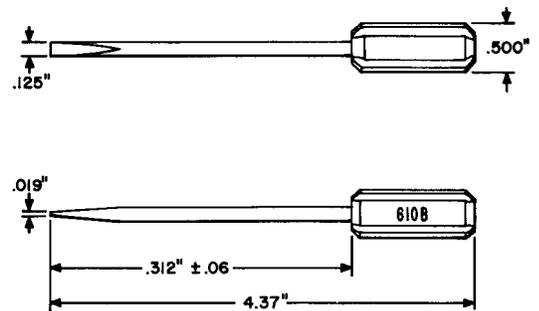


Fig. 1—610B Adjuster Tool

**2.02 611A:** The 611A tool (Fig. 2) is a relay hinge-bracket adjuster for use on U-, UA-, and Y-type relays having hinge pin-type armature suspension.

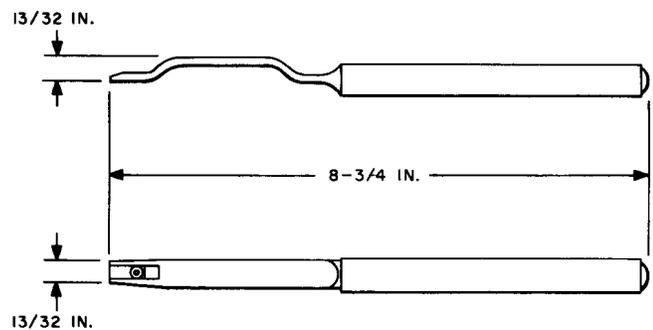


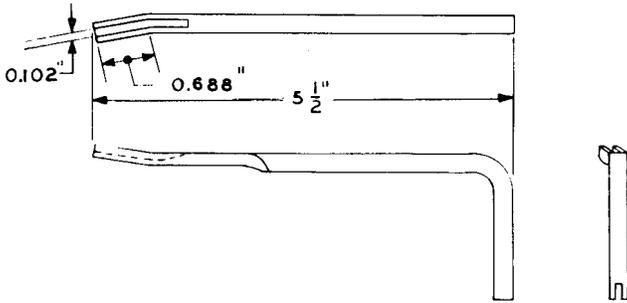
Fig. 2—611A Adjuster Tool

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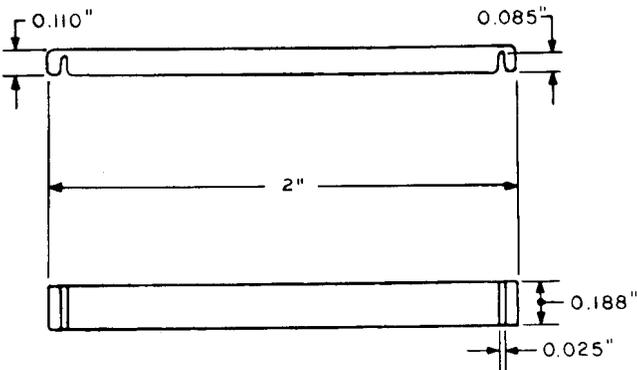
**2.03 619A:** The 619A tool is rated Mfr Disc. with no replacement.

**2.04 623A:** The 623A tool (Fig. 3) is an adjuster used in adjusting off-normal springs on the 324-, 325-, and 328-type switches.



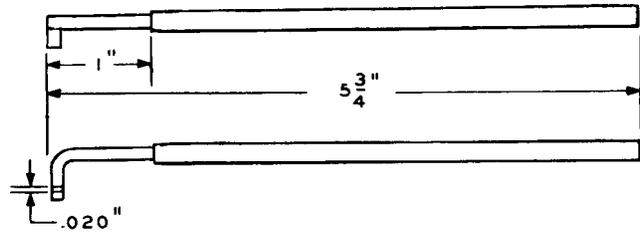
**Fig. 3—623A Adjuster Tool**

**2.05 625A:** The 625A tool (Fig. 4) is a spring adjuster used in adjusting the off-normal springs on the 214A selector of the one-type translator.



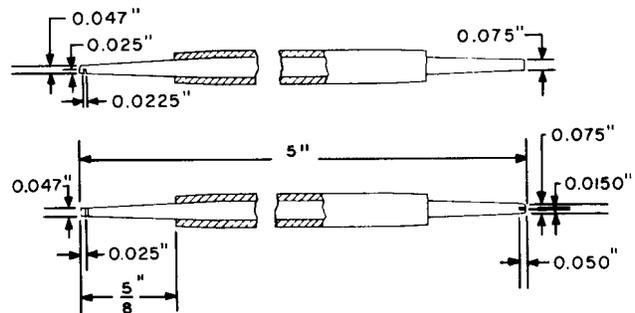
**Fig. 4—625A Spring Adjuster Tool**

**2.06 626A:** The 626A tool (Fig. 5) is a spring adjuster used in adjusting vertical unit balancing springs on the 324- and similar-type switches.



**Fig. 5—626A Spring Adjuster Tool**

**2.07 638A:** The 638A tool (Fig. 6) is a contact aligning tool which forms a part of the 1013A tool kit. It is used in adjusting the replacement fixed contacts and twin contacts on the AF-, AG-, AJ-, and AK-type relays.



**Fig. 6—638A Adjuster Tool**

**2.08 638B:** The 638B tool (Fig. 7) is a contact aligning tool which forms a part of the 1013A tool kit. It is used in adjusting the replacement stationary contacts and twin contacts of the 286-, 287-, and 288-type relays.

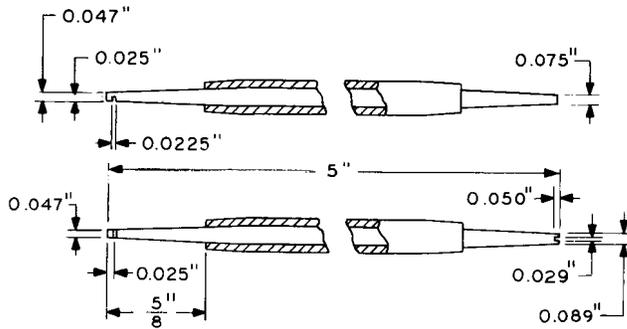


Fig. 7—638B Adjuster Tool

2.09 **648A:** The 648A tool (Fig. 8) is a spring adjuster used on the KS-13835 readers and replaces the D-178347 adjuster.

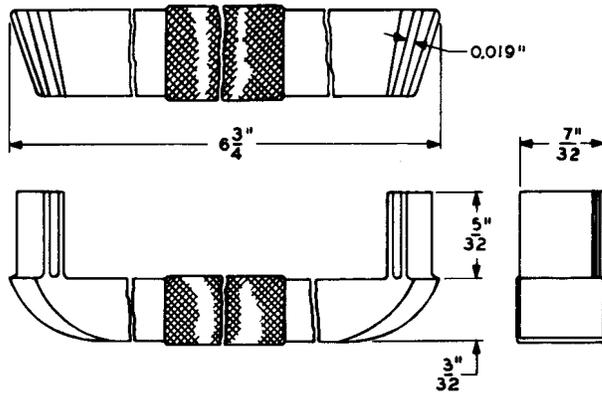


Fig. 8—648A Spring Adjuster Tool

2.10 **662A:** The 662A tool (Fig. 9) is an adjuster used for adjusting lugs of wire spring multicontact relays.

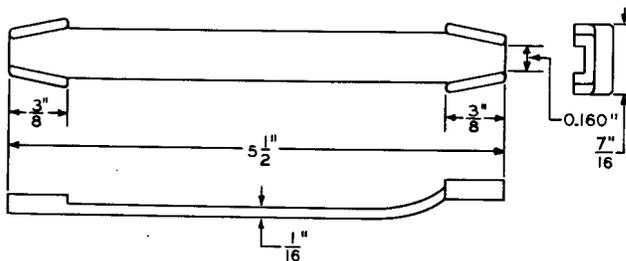


Fig. 9—662A Adjuster Tool

2.11 **671A:** The 671A tool (Fig. 10) is an adjuster used in applying magnetic separators to the Y-type relays. It replaces the D-167912 adjuster.

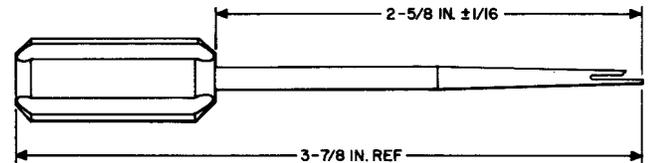


Fig. 10—671A Adjuster Tool

2.12 **699A:** The 699A tool (Fig. 11) is an adjuster used in adjusting the upper armature support lug of the 324, 325-, and 328-type crossbar switches.

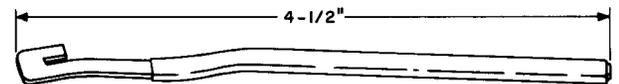


Fig. 11—699A Adjuster Tool

2.13 **711A:** The 711A tool (Fig. 12) is an adjuster used in adjusting the card support tab on vertical units of the 324-, 325-, and 328-type crossbar switches.

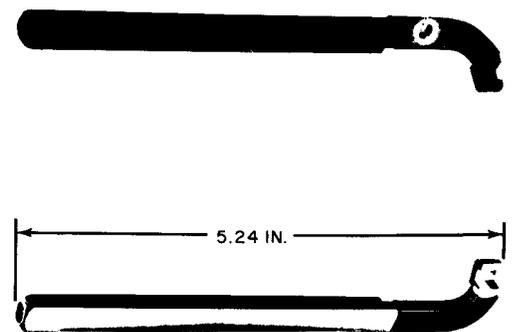
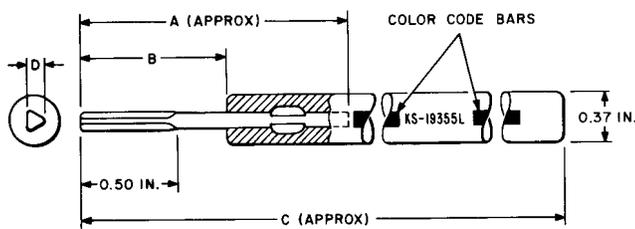


Fig. 12—711A Adjuster Tool

SECTION 074-202-121

2.14 The functions of the KS-19355, L1, L3, L4, L5, and L6, adjusters (Fig. 13) are as follows:

- (a) **KS-19355, L1:** The KS-19355, L1, adjuster is for use on 1586 and 1590 inductors.
- (b) **KS-19355, L3 and L4:** The KS-19355, L3 and L4, adjusters are for use in adjusting the 1614 and 1642 inductors and the 2576, 2583, 2597, 2601 and 2615 transformers.
- (c) **KS-19355, L5:** The KS-19355, L5, adjuster is for use on 1590C inductors and J87303C oscillator in the L4 Coaxial System.
- (d) **KS-19355, L6:** The KS-19355, L6, adjuster is used on the 1668, 1676, 1678, and 1698-type inductors and replaces the KS-20481, L1, adjuster.



LIST NUMBER	DIMENSIONS (INCHES)				COLOR CODE
	A	B	C	D	
1	1.38	0.75	3.00	0.77	Black
3	2.18	1.56	3.82	.068	Red
4	1.38	0.75	3.00	.068	Blue
5	1.88	1.25	3.50	.077	Yellow
6	2.18	1.56	3.82	.065	Green

Fig. 13—KS-19355-Type Adjusters

2.15 **KS-19915, L1:** The KS-19915, L1, adjuster (Fig. 14) is for use in adjusting contact separators on the BF-, BG-, BJ-, and BL-type relays.

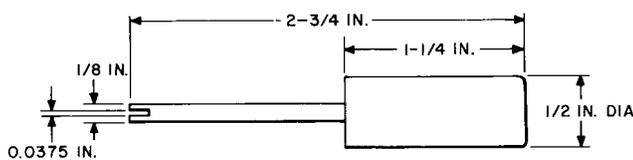


Fig. 14—KS-19915, L1, Adjuster

2.16 **KS-20113, L2:** The KS-20113, L2, adjuster (Fig. 15) is for use in tuning the J68383-3A FM terminal and replaces the KS-20113, L1, adjuster.

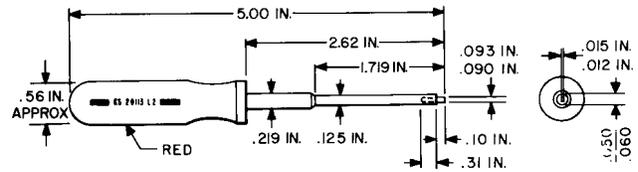
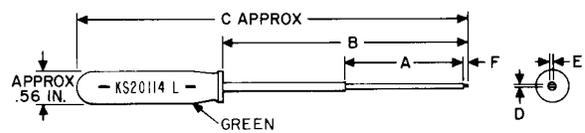


Fig. 15—KS-20113, L2, Adjuster

2.17 **KS-20114, L1 and L2:** The KS-20114, L1 and L2, adjusters (Fig. 17) are used on the 3-type FM terminals in the TD-3 and TH-3 Microwave Radio System.



LIST NO.	BLADE MATERIAL	DIMENSIONS (INCHES)					
		A	B	C	D	E	F
1	Steel	1.25	3.50	5.88	.020	.093	.12
2	Beryllium Copper	1.94	4.12	6.50	.017	.090	.06
					.020	.093	
					.017	.090	

Fig. 16—KS-20114, L1 and L2, Adjusters

2.18 **KS-20115, L1:** The KS-20115, L1, adjuster (Fig. 17) is for use in adjusting the 3-type FM terminals with the J68383J test sets.

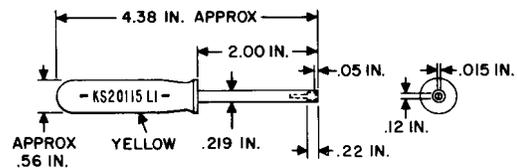
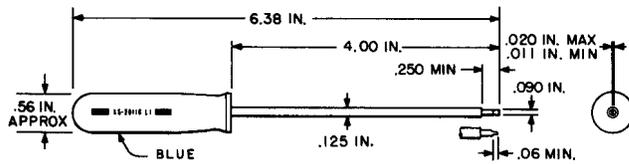


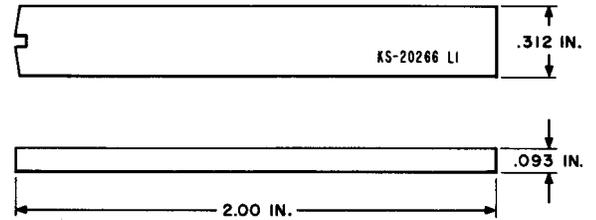
Fig. 17—KS-20115, L1, Adjuster

**2.19 KS-20116, L1:** The KS-20116, L1, adjuster (Fig. 18) is for use in adjusting the 3-type FM terminals with the J68383J test sets.



**Fig. 18—KS-20116, L1, Adjuster**

**2.20 KS-20266, L1:** The KS-20266, L1, adjuster (Fig. 19) is used in bending out cam teeth on normal post springs of the 197-type switches.



**Fig. 19—KS-20266, L1, Adjuster**