

UNITED STATES ELECTRIC SIGNALS

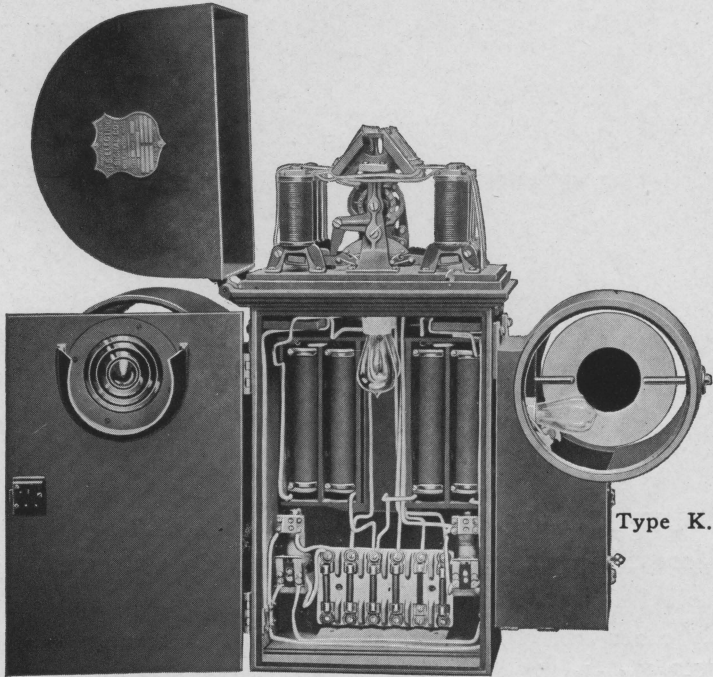


PARTS FOR TYPES K, K-2

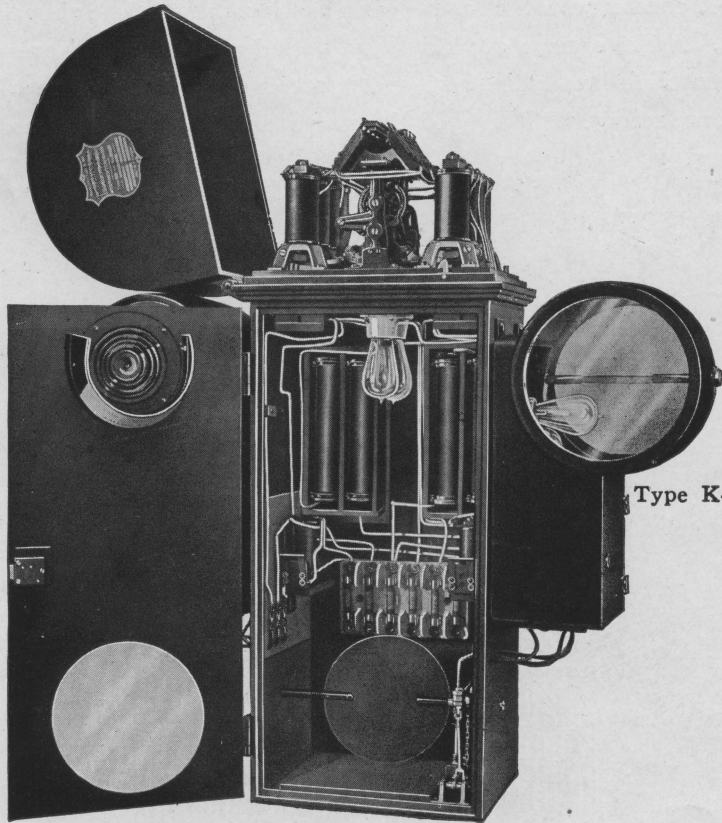
THE UNITED STATES ELECTRIC SIGNAL COMPANY offers this parts catalog to railway officials and maintainers in the belief that it will be found more convenient and complete than any other catalog previously published, concerning our Types K and K-2 Signals. There is included also, a list of parts for our No. 5 and 5-A contactors which are used in connection with the above equipments. All our parts are made by skilled workmen and are of the best materials available, and each part is inspected before shipped from our factory. Many of the parts are illustrated to assist in ordering.

UNITED STATES ELECTRIC SIGNAL CO.

West Newton, Mass.



Type K.



Type K-2.

Part Nos. and Index to Cuts for Type K and K-2 Signals.

All Parts Listed are Common to K and K-2 with Exceptions as Indicated.

800	Signal Box Casting Complete with Door, Dome and Dome Base. K	839	Magnet Stand.
		840	Set Screw for Magnet Core.
		841	Pivot Screw for Armature.
800-2	Signal Box Casting Complete with Door, Dome and Dome Base. K-2.	842	Magnet Coil for Pick-up Magnet.
		843	Core for Pick-up Magnet.
801	Dome and Dome Base Casting.	844	Heel Strap for Pick-up Magnet.
		845	Nut for 843.
802	Door complete. K.	846	Base for Pick-up Magnet.
802-2	Door complete. K-2.	847	Set Screw for 843.
803	Base Slate for Relay. (for 4 Point Contact Sets.)	848	Armature Lever for Front Magnet. (Right Hand.)
803 A	Base Slate for Relay. (for 4 and 5 Point Contact Sets.)	849	Pivot Shaft for 848.
		850	Tension Spring Pin for Pawl.
804R	Side Fibre K.	851	Armature Lever for Front Magnet. (Left Hand.)
804L	Side Fibre K.		Armature.
804-2R	Side Fibre K-2.	852	Pivot Pin for Roll 855.
804-2L	Side Fibre K-2.	853	Pivot Pin for 858.
805	Resistance Tube Case.	854	Roll for 850.
806	Resistance Tube Case Back.	855	Cotter Pin for 851.
807	Fibre Back of Tube Case.	856	Pawl for 848.
808	Partition for Tube Case.	857	Pawl for 851.
809	End for Tube Case.	858	Tension Spring Pin for 857.
810	Resistance Tube Clip (bottom).	859	Tension Spring Pin for 858.
811	Resistance Tube Clip (top).	860	Tension Spring for 857 and 858.
812	Resistance Tube Case, Bracket.	861	Locking Lever for Step Wheel.
		862	Cotter Pin for 862.
813	Movement Roof.	863	Pivot Shaft for 862.
814	Pivot Screw for Locking Lever Shaft.	864	Dome Lock.
815	Main Relay Magnet.	865	Locking Device for Restoring Magnet.
816	Core for Magnets, No. 815 and No. 0815.	866	Armature Lever for Pick-up Magnet.
817	Heel Strap for Magnet.	867	Armature for 867.
818	Set Screw for Magnet Spool.	868	Pivot Pin for 867.
819	Nut for 816.	869	Screw for 868.
820	Tension Spring Pin for 821.	870	Base Slate Screw Bushing.
821	Rear Contact Lever.	871	Tension Rod for Contact Levers. Long and Short.
822	Middle Contact Lever.	872	Rear Armature Levers.
823	Front Contact Lever.	873	Armature for Rear Armature Levers.
824	Contact for 821.		Pivot Pin for Rear Armature Levers.
824A	Contact Bar with Solid contact Strip for 821.	874	Armature Screw.
		875	Pivot Shaft for 874.
825	Contact for 822.	876	Dwell Lever.
825A	Contact Bar with Solid contact Strip for 822.	877	Spring for 879.
		878	Pivot Bracket for 879.
826	Contact for 823.	879	Nut for 881.
826A	Contact Bar with Solid contact Strip for 823.	880	Dwell Wheel, Step Wheel, Ratchet Wheel and Shaft.
		881	Click.
827	Roof Slate. (Right Hand.)	882	Click Spring.
828	Spring Contact fingers for 827 and 829.	883	Connecting Link for 821.
		884	Connecting Link for 866.
829	Roof Slate. (Left Hand.)	885	Bottom Slate (for old style case).
830	Contact Slate for Pick-up Magnet.	886	Base Slate for 4 Point contact Set.
		887	Base Slate for 5 Point contact Set.
831	Spring Contact fingers for 830.	888	Bracket for 86.
832	Shelf for Pick-up Magnet.		
833	Bracket for 832.	24	
834	Relay Frame.	24-5	
835	Base Screw.	62	
836	Tension Spring Pin for 834.		
837	Pivot Screw for Step Wheel Shaft.		
838	Pivot Shaft for Contact Levers.		

63	Fibre Washer for 64.	93	Lamp Receptacle. (T.H. Base.)
64	Nut for Bolt, 65.	093	Lamp Receptacle. (Ed. Base.)
65	Movement Base Pin.	516	Iron Box Hanger.
68	Lock and Two Keys.	518	Resistance Tube.
69	Key for 68.	520	Sun Shield.
70	Fibre under 68.	542	5in. Lens.
74	Fibre One Wire Cleat.	550	Bezel for 5in. Lens.
86	4 Point Contact Set for 24.	2047	Wood Bushing for Bottom of case. K, K-2.
86-5	5 Point Contact Set for 24-5.		
88	4 Point Contact Set for 803 or 803A.	5280	Hinged Contact Finger for Main Relay K, K-2.
88-5	5 Point Contact Set for 803A.	5285	Hinged Contact Finger for Nos. 5 and 5A Contactors.
090	Fuse Block. (Six Pole.)	5290	Hinged Contact Finger for Pick-up Relay.
91	Iron Extension for Lamp. (Old style case).		
92	Lamp Receptacle, Rubber.		

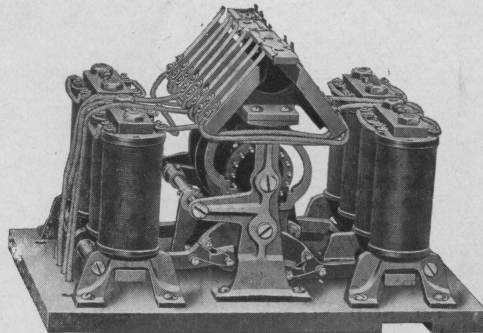
We recommend these contact fingers in preference to the spring contact fingers. $\left\{ \begin{array}{l} 5280. \\ 5285 \\ 5290 \end{array} \right.$

Side Semaphore Parts

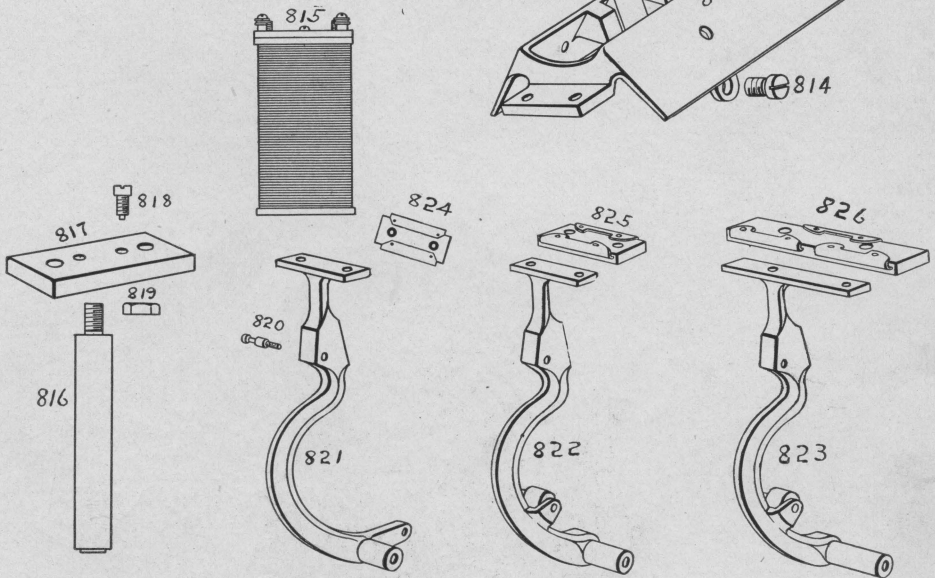
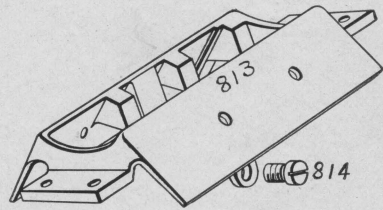
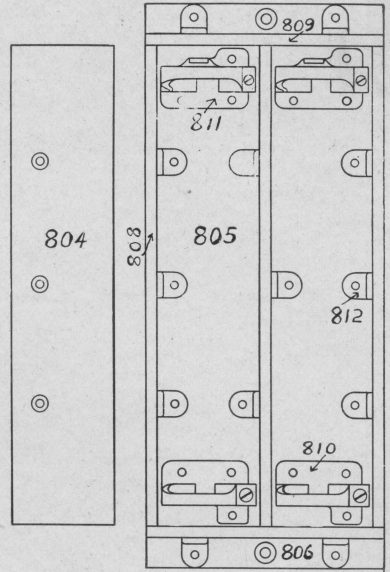
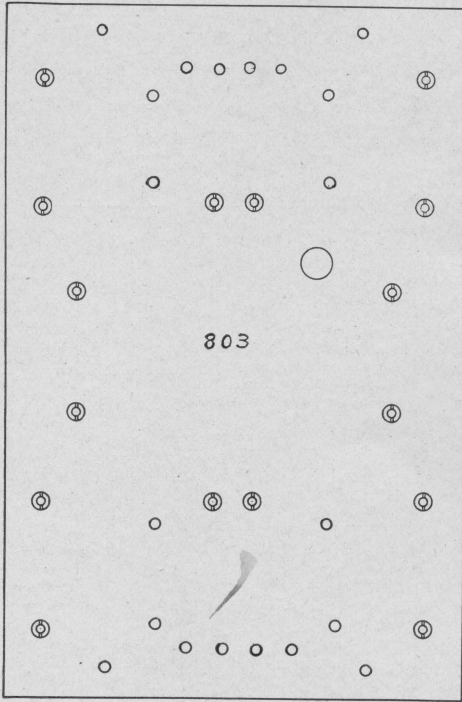
602	Disc Complete with Shaft and Weight, White and Green.	624	Armature Shaft.
605	Armature.	625	Door Hinges.
607	Weight.	0627	Semaphore Hanger.
609	Fibre Base.	638	Semaphore Case Casting Fitted with Door.
610	Armature Bracket.	640	Semaphore Door.
613	Chain Bracket.	642	Semaphore Glass.
615	Chain.	553	Semaphore Magnet Coil with Core.
617	Pivot Screw.	644	Slate for Terminal.
618	Back Pivot Screw.		
621	Levelling Screw.		

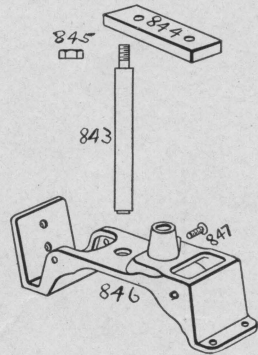
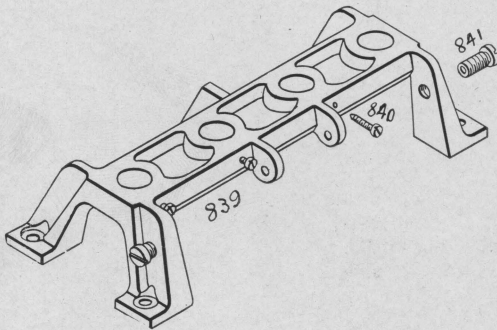
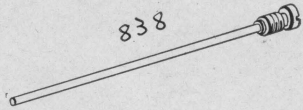
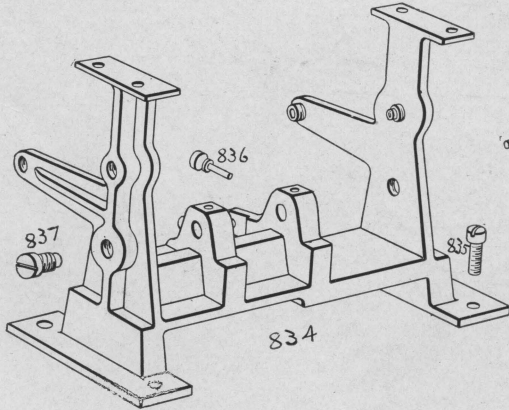
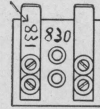
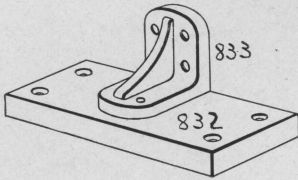
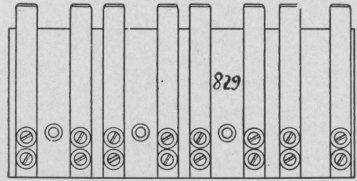
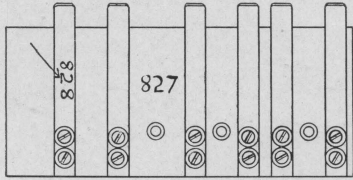
Parts for K-2 Red Semaphore Mechanism.

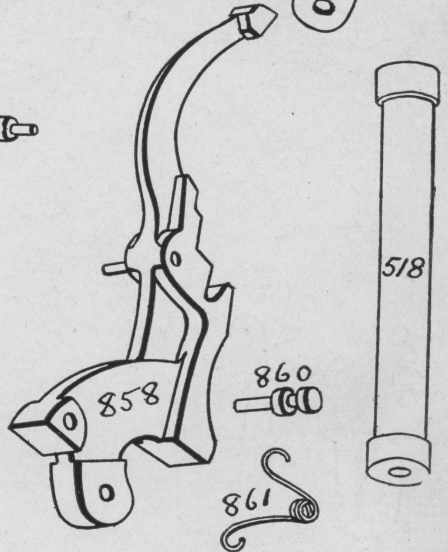
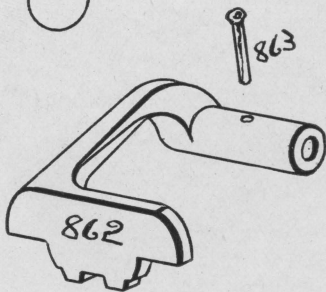
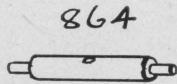
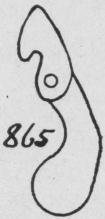
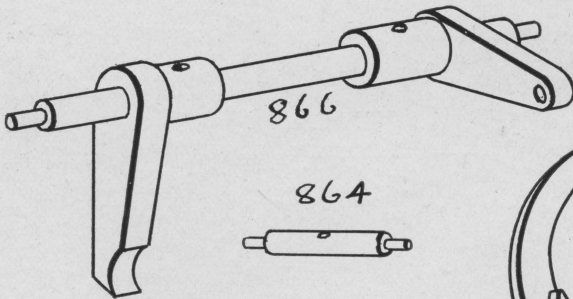
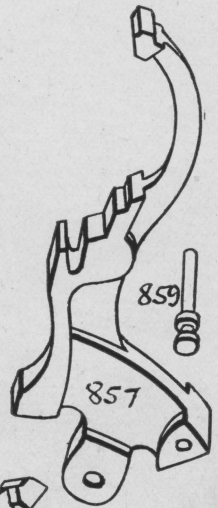
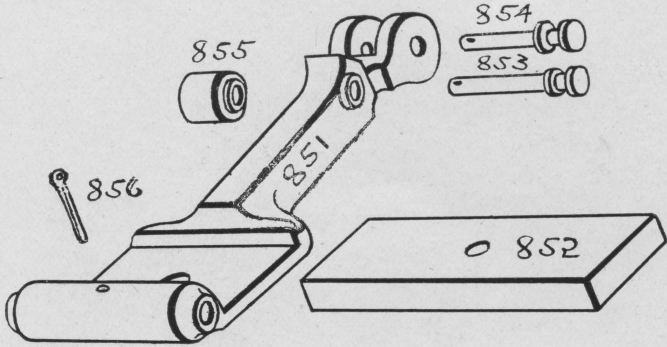
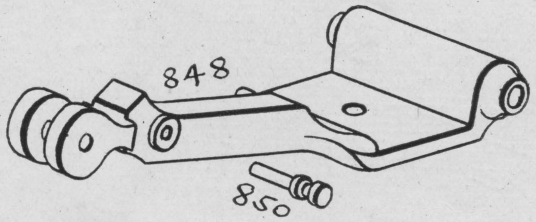
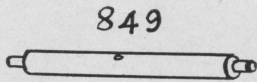
609	Fibre Base.	906	Connecting Link.
610	Armature Bracket.	907	Connecting Link Pin.
605	Armature.	908	Adjusting Screw for 905.
553	Semaphore Magnet Coil with core.	909	Adjusting Screw Pin.
624	Armature Shaft.	910	Levelling Screw for 609.
900	Chain Lever Bracket.	911	Fastening Screw for 609.
901	Levelling screw for 900.	912	Red Semaphore Complete with Shaft and Weight.
902	Fastening screw for 900.	913	Red Semaphore Weight.
903	Chain Lever.	914	Fixed Pivot Screw for 912.
904	Chain Lever Shaft.	915	Adjustable Pivot Screw for 912.
905	Chain.		

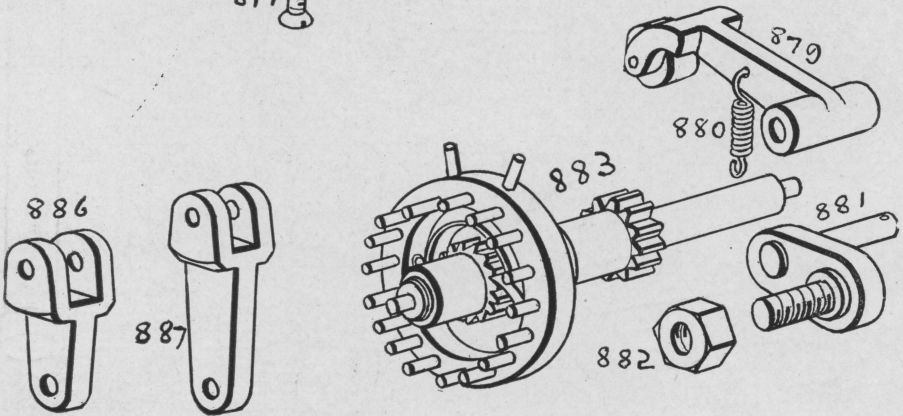
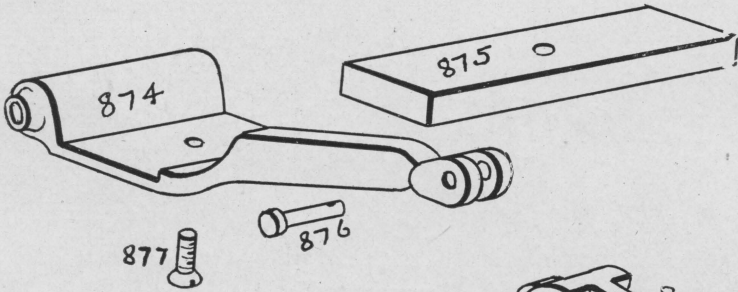
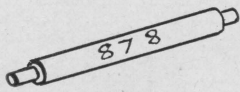
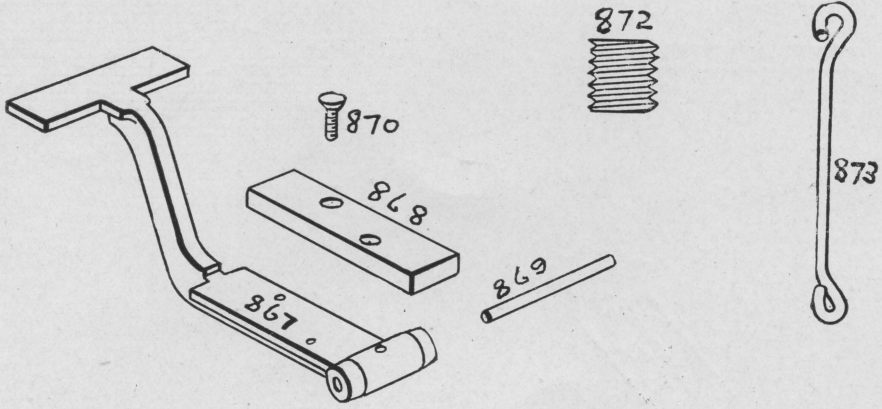


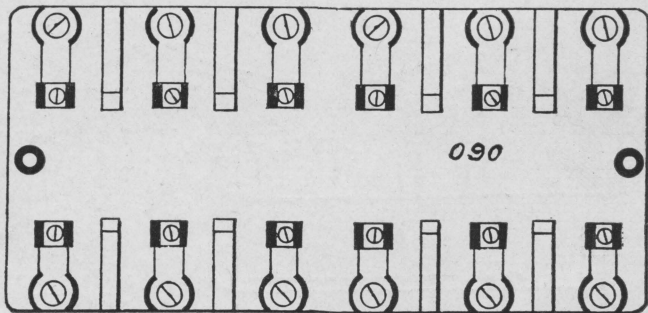
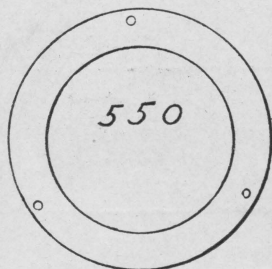
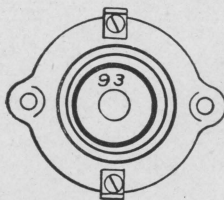
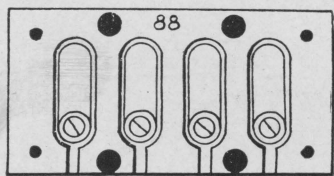
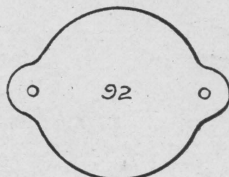
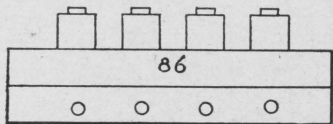
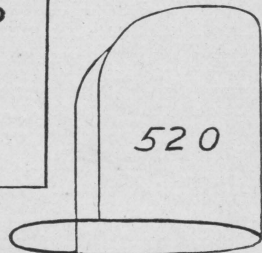
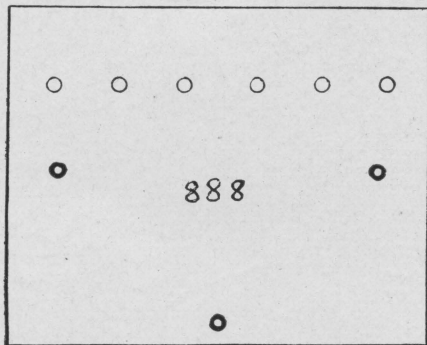
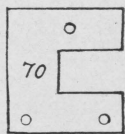
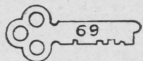
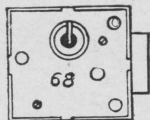
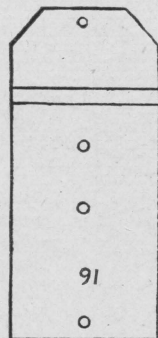
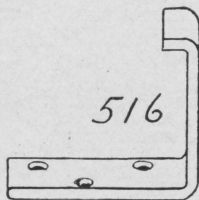
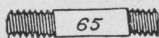
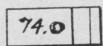
K and K-2 Relay.

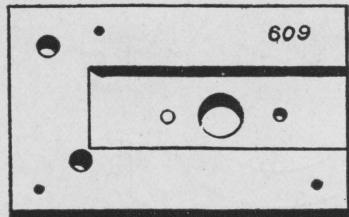
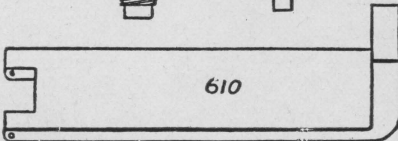
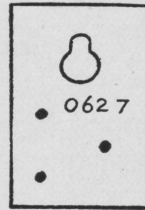
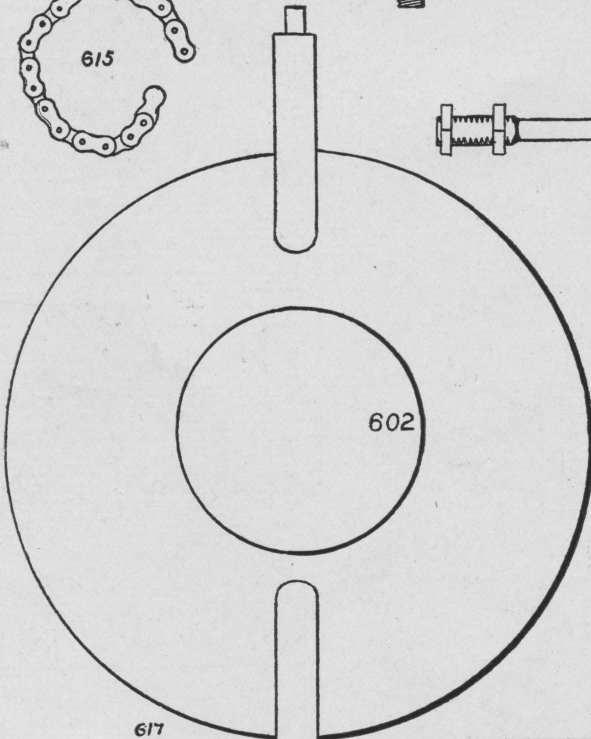
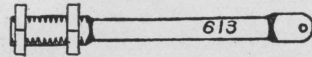
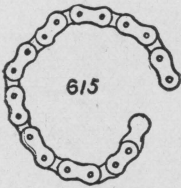
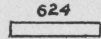
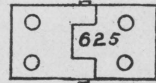
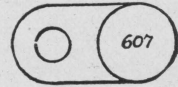
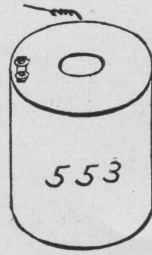
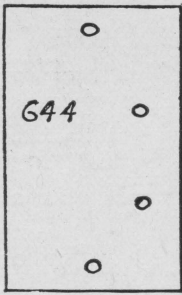


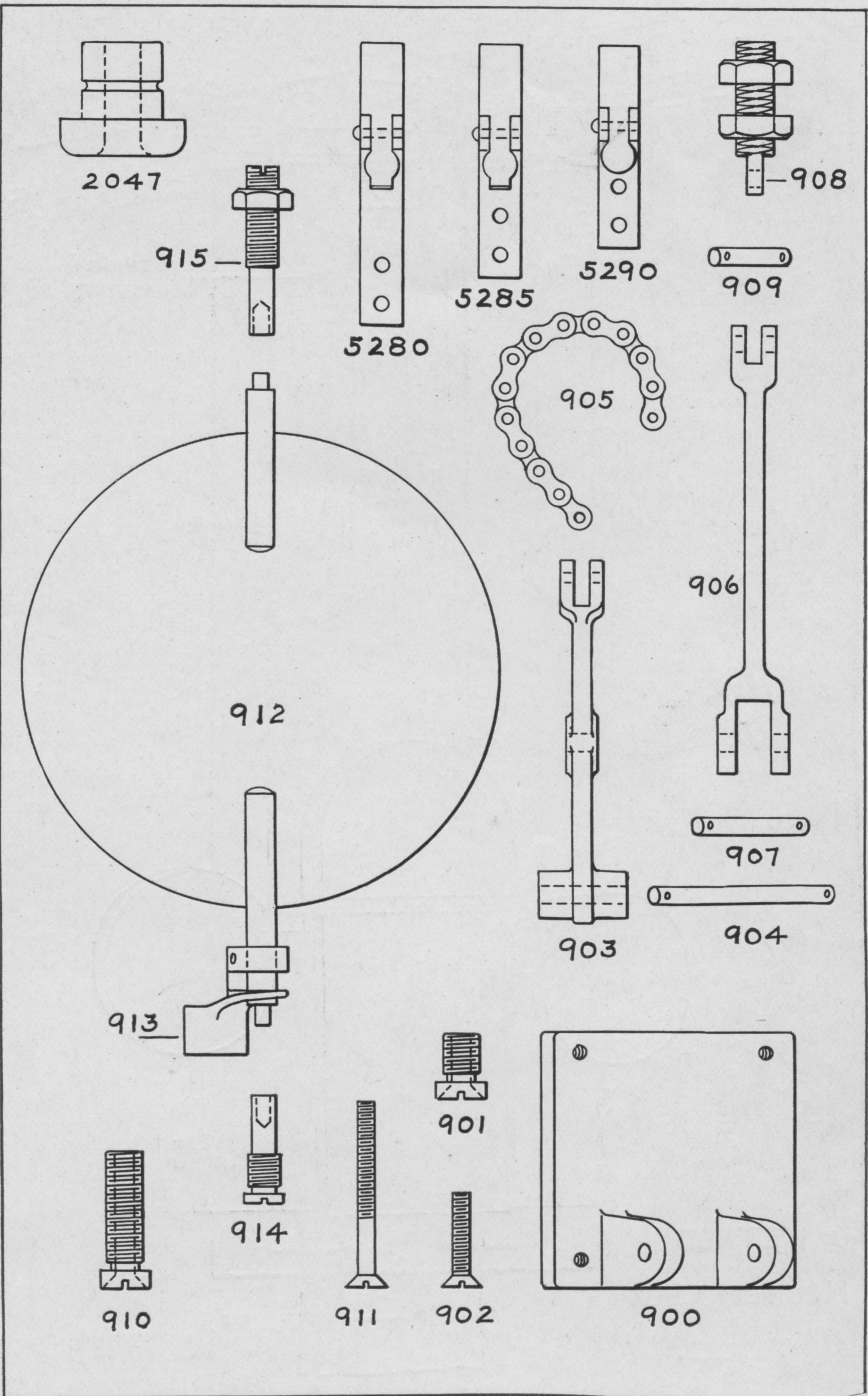


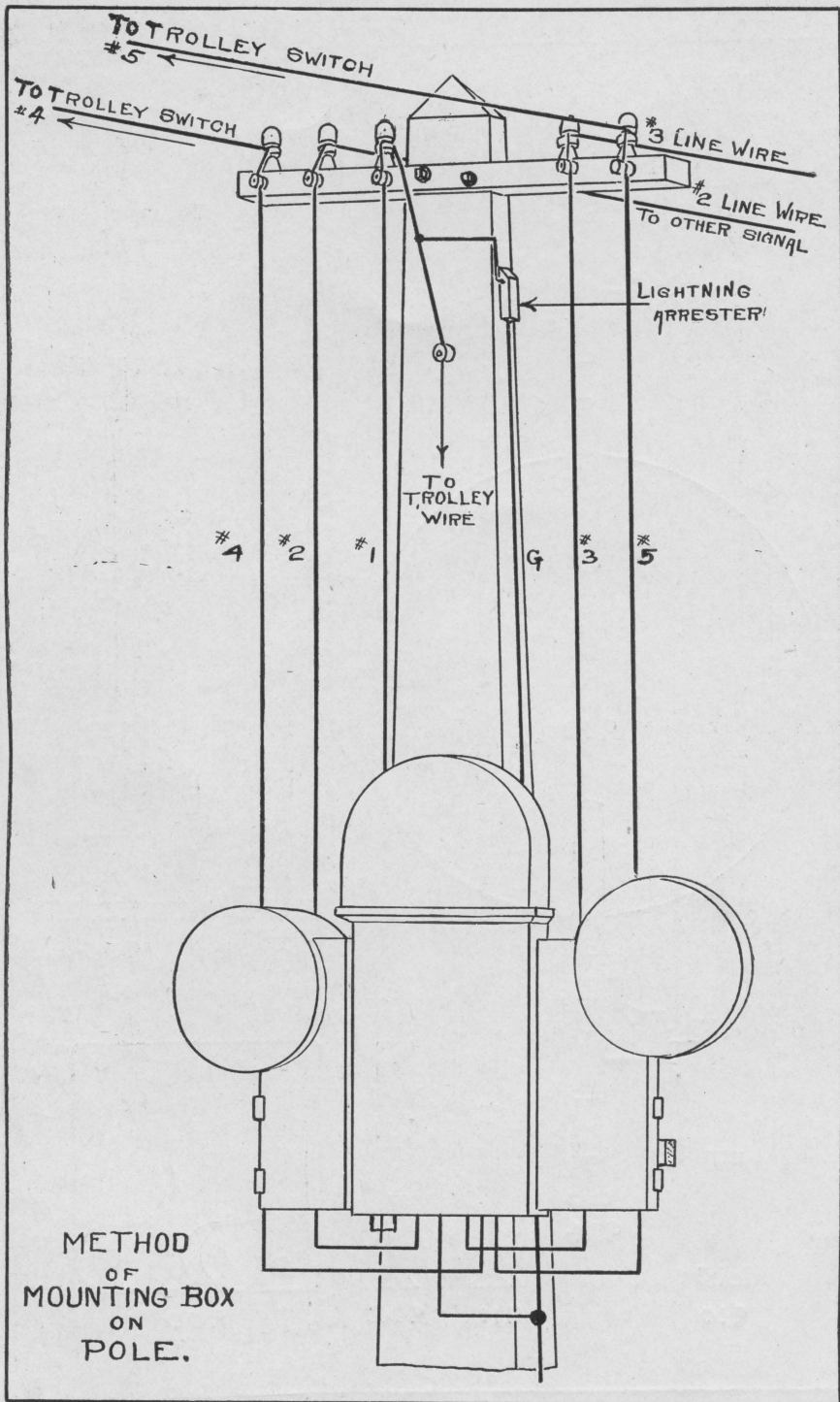










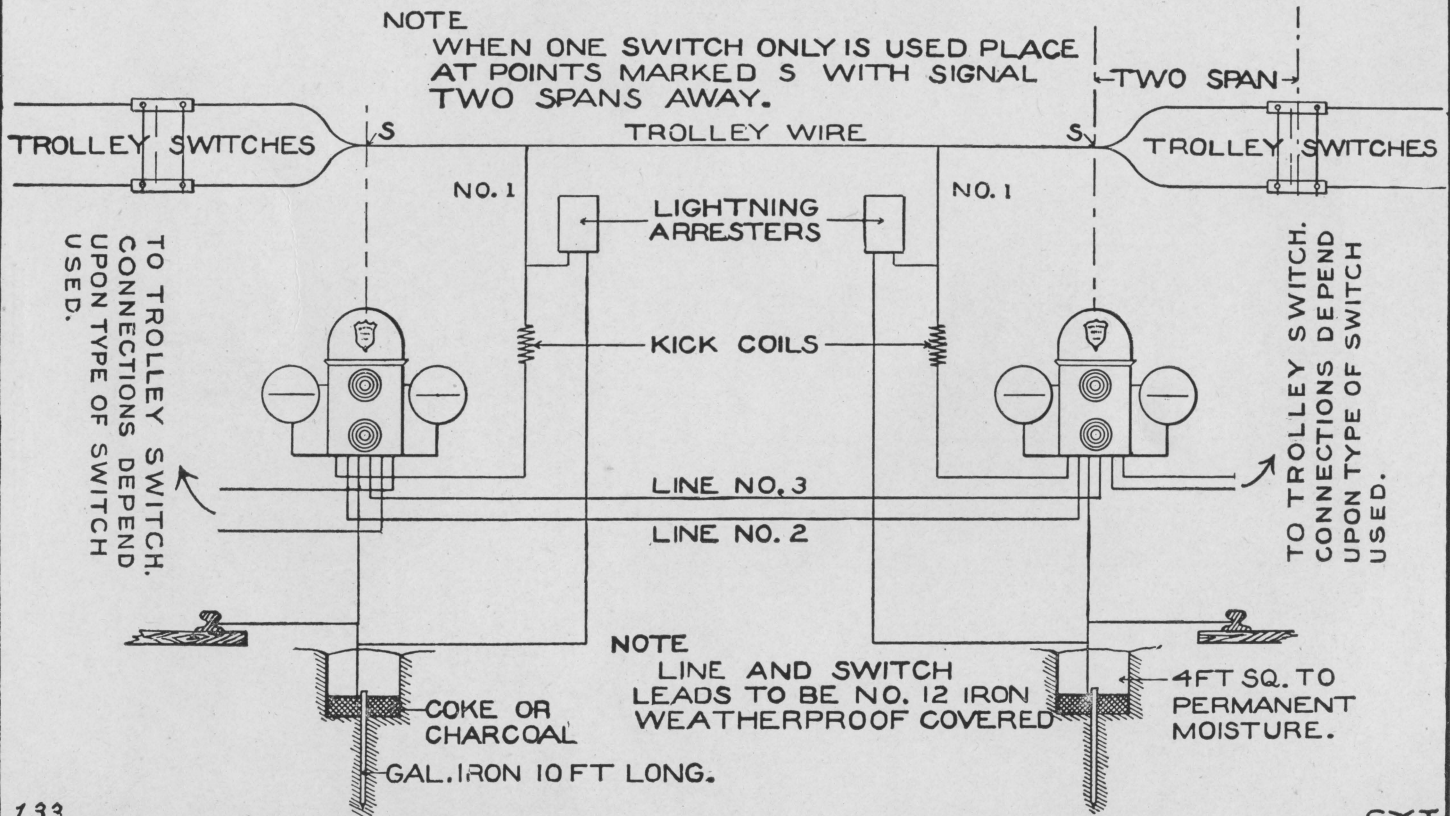


To avoid confusion the wires are shown uninclosed, but we recommend that they be inclosed in fibre, wood, or iron conduit cleated to the pole.

LINE WIRING PLAN

NOTE

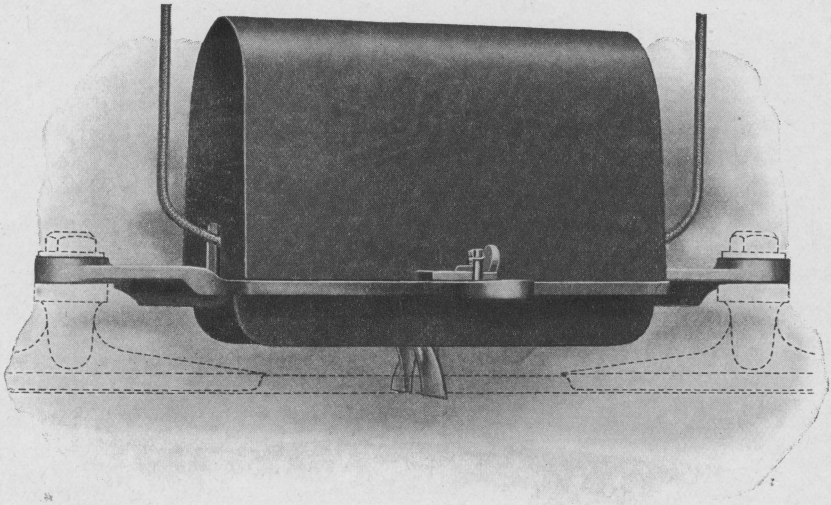
WHEN ONE SWITCH ONLY IS USED PLACE AT POINTS MARKED S WITH SIGNAL TWO SPANS AWAY.



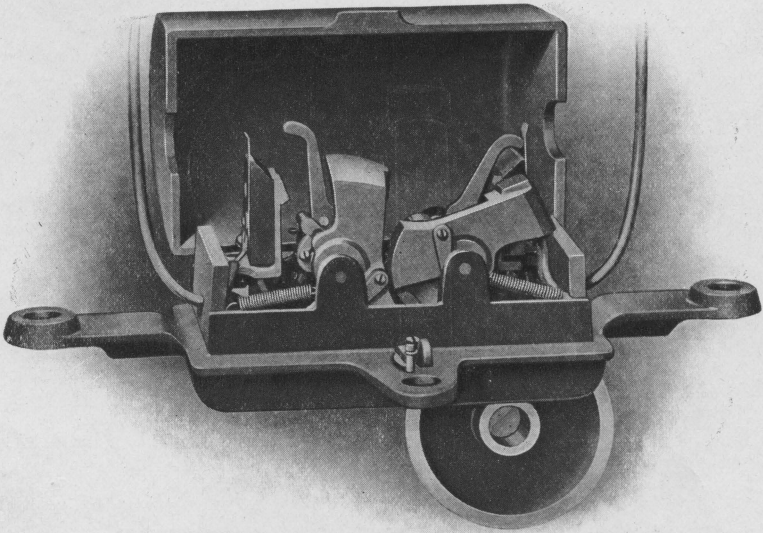
NOTE

LINE AND SWITCH LEADS TO BE NO. 12 IRON WEATHERPROOF COVERED

4FT SQ. TO PERMANENT MOISTURE.



Nos. 5 and 5A Trolley Contactors.



No. 5A Trolley Contactor.

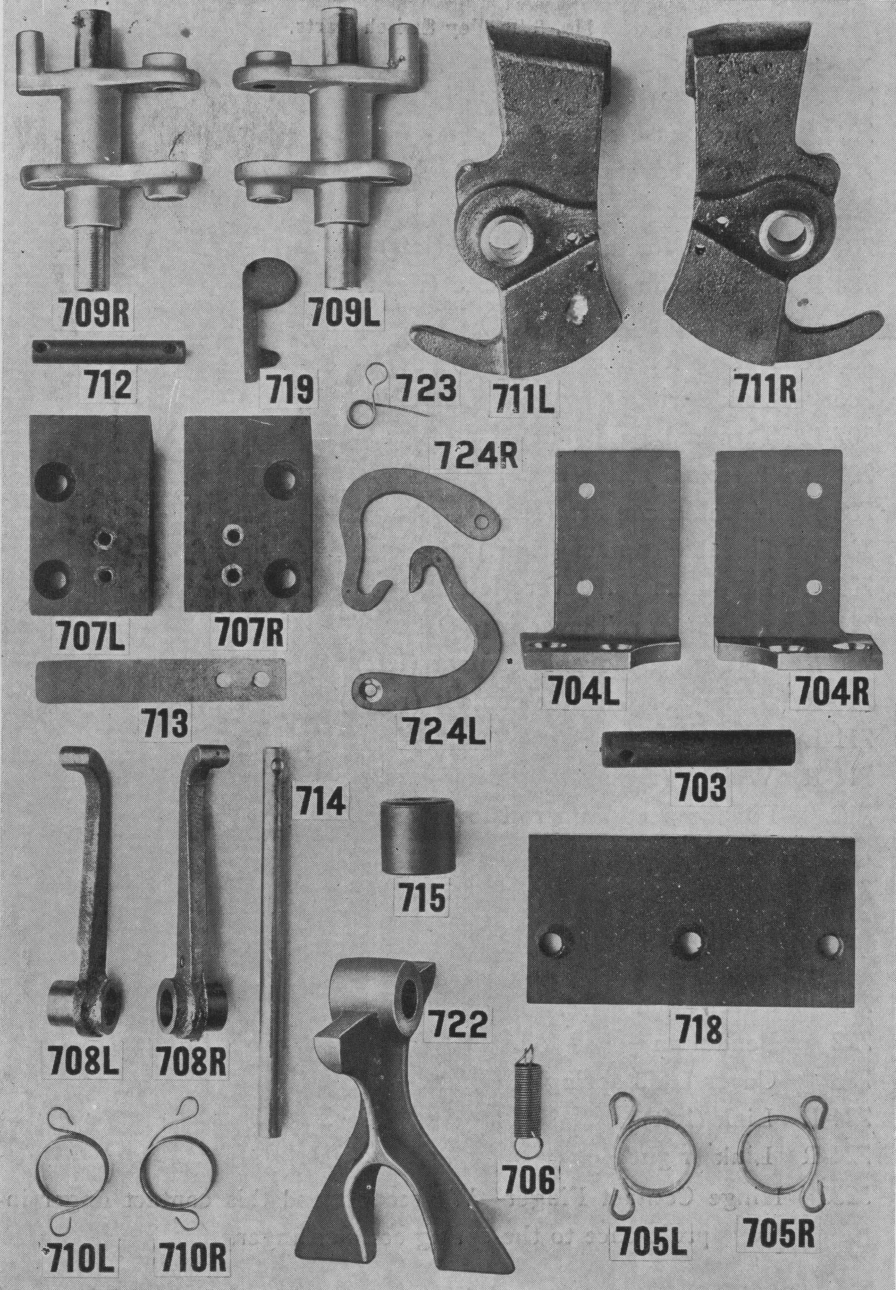
INDEX TO CUTS

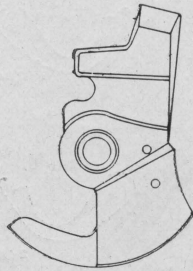
No. 5 Trolley Switch Parts.

No. of Part

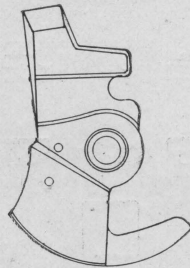
- 700 Trolley switch complete
- 701 Switch base casting
- 702 Switch cover
- 703 Shaft for pendulum
- 704-L Bracket for terminal slate (left)
- 704-R Bracket for terminal slate (right)
- 705-L Spring for hanger (left)
- 705-R Spring for hanger (right)
- 706 Link Spring
- 707-L Terminal slate (left)
- 707-R Terminal slate (right)
- 708-L Movable contact (left)
- 708-R Movable contact (right)
- 709-L Pendulum roll lever (left)
- 709-R Pendulum roll lever (right)
- 710-L Spring for movable contact (left)
- 710-R Spring for movable contact (right)
- 711-L Weight (left)
- 711-R Weight (right)
- 712 Pin for pendulum roll lever
- 713 Spring Contact Finger
- 714 Movement shaft
- 715 Roll for pendulum lever
- 718 End insulation
- 719 Cover latch
- 722 Pendulum
- 723 Cover latch spring
- 724-L Link (left)
- 724-R Link (right)
- 5285 Hinge Contact Finger—We recommend this contact finger in preference to the spring contact finger.

CUTS OF PARTS





2006



2007



2005



2021



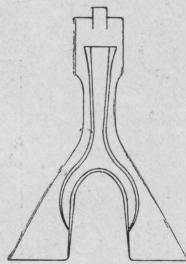
2022



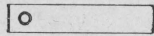
2023



2020



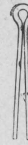
2031



2029



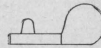
2037



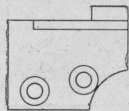
2028



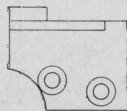
2030



2024



2035



2036

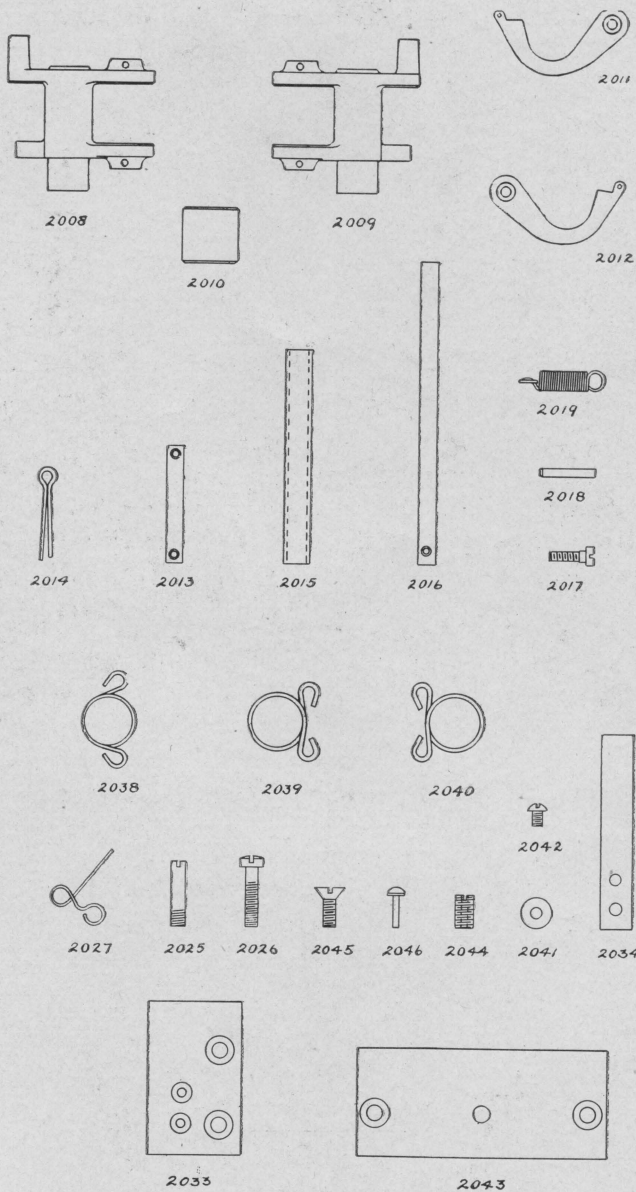


2032

No. 5A Contactor Parts.

- | | | | |
|-------|---|-------|--|
| 2005 | Hinge-pin for Cover. | 2017 | Link Screw. |
| 2006 | Weight (Left). | 2018 | Link Stop-pin. |
| 2007 | Weight (Right). | *2019 | Link Spring. |
| 2008 | Pendulum Roll Lever (Left). | 2020 | Screw for Attaching 2039 to 2006. |
| 2009 | Pendulum Roll Lever (Right). | 2021 | Screw for Attaching 2037 to 2008, 2037 to 2022 and 2039 to 2008. |
| *2010 | Roll for Pendulum Lever. | 2022 | Movable Contact (Left). |
| 2011 | Link (Left). | 2023 | Movable Contact (Right). |
| 2012 | Link (Right). | *2024 | Cover Latch. |
| *2013 | Pin for Pendulum Roll Lever. | 2025 | Latch Pin. |
| 2014 | Cotter Pin for Movement Shaft and Roll Pin. | | |
| 2015 | Brass Sleeve for Roll Lever. | | |
| *2016 | Movement Shaft. | | |

*Indicates parts interchangeable in 5 and 5A.



No. 5A Contactor Parts.

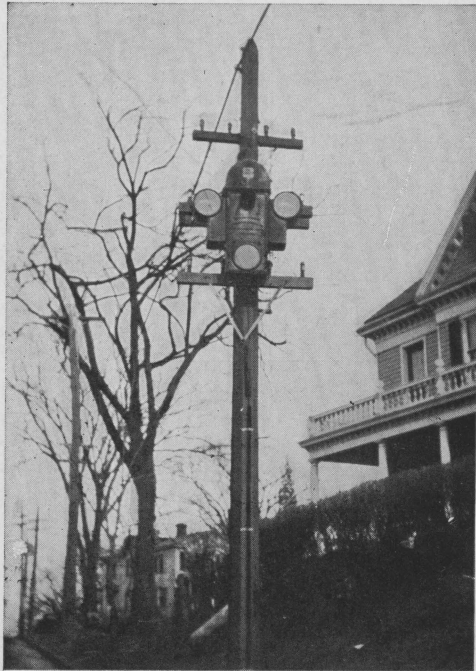
- | | | | |
|-------|-------------------------------------|-------|-------------------------------------|
| 2026 | Latch Screw. | *2037 | Spring for Movable Contact (Left). |
| *2027 | Latch Spring. | *2038 | Spring for Movable Contact (Right). |
| 2028 | Cotter Pin for Pendulum Shaft. | 2039 | Spring for Hanger (Left). |
| *2029 | Pendulum Shaft. | 2040 | Spring for Hanger (Right). |
| 2030 | Pendulum Spring. | 2041 | Copper Burr for 2042. |
| *2031 | Pendulum. | 2042 | Stationary Contact Screw. |
| *2032 | Terminal Slate (Left). | *2043 | End Insulation. |
| *2033 | Terminal Slate (Right). | 2044 | Screw Bushing. |
| *2034 | Stationary Contact. | 2045 | Screw for 2032, 2035 and 2043. |
| 2035 | Bracket for Terminal Slate (Left). | 2046 | Pin for Link Spring. |
| 2036 | Bracket for Terminal Slate (Right). | | |

*Indicates parts interchangeable in 5 and 5A.

A Few Illustrations of K-2 Installations



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Clean and oil your apparatus at least every two months. Too much oil is worse than none, as it collects dust and makes a cutting grit that is bad for mechanism. Use the best oil obtainable (“Usesco”) and a little will do the work.

For Signals we recommend an oil that we have used for 10 years and know it to be the best for this purpose. **Does not gum** and has the **lasting qualities**. We put this out for the benefit of those desiring an oil **suitable** for this class of work.

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