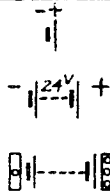
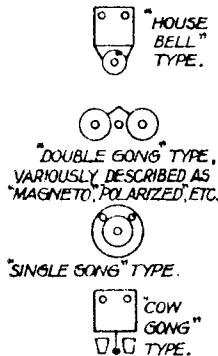


PUBLISHED BY THE B.P.O. BOARD.

BATTERIES.



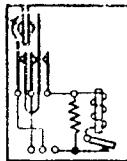
BELLS.



BUZZERS

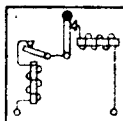


BOXES, COIN COLLECTING



A TYPE COIN COLLECTING BOX NO. 1.

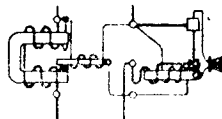
CIRCUIT BREAKERS.



"NO VOLT & OVERLOAD."



"OVERLOAD" (KNIFE SWITCH TYPE)

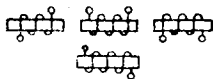


IN CONNECTION WITH POLARIZED RELAY AS SHOWN FOR "REVERSED CURRENT" ETC. USED IN POWER CIRCUITS

CLIPS, TEST.



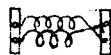
COILS.



BRIDGING OR DIFFERENTIAL



INDUCTION, PRIMARY & SECONDARY



INDUCTION, PRIMARY & SECONDARY WIRING DIAGRAM CONVENTION



RESISTANCE, NON-INDUCTIVE



RESISTANCE, INDUCTIVE



RESISTANCE, VARIABLE

COILS. (CONTINUED)



RETARDATION, SINGLE WINDING, STRAIGHT CORE.



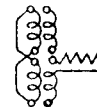
RETARDATION, DOUBLE WINDING, STRAIGHT CORE.



RETARDATION, DOUBLE WINDING, CLOSED CORE.



INDUCTION, PRIMARY, SECONDARY & TERTIARY.



INDUCTION, OPERATORS, N.T.



REPEATING JUNCTION SUBSCRIBERS

CONDENSERS



CONNECTORS AND TERMINALS

THIS CONVENTION IS IN ALL SCHEMATIC TO REPRESENT ANY TERMINAL. IN MORE DETAILED DIAGRAMS SHOULD BE USED, GEN ONLY FOR SIMPLE SOL TERMINALS.



SCREW CONNECTOR



DOUBLE ENDED CONN TWO SOLDERED TERM.



DITTO, 1 SOLDERED 1 SCREW TERMINAL



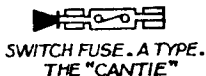
CORD CONNECTOR



HINGE CONNECTOR

NO. 3, C.B.R. LRA 4900, 1900.

FUSES.  
(SEE ALSO PROTECTORS)



EARTHS & FRAME CONNECTIONS



EARTHS



FRAME CONNECTIONS

GENERATORS & MOTORS.



GENERATOR OR MOTOR

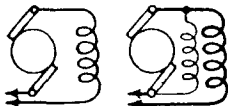
GENERATORS & MOTORS.(CONTINUED)

FOR CONTINUOUS CURRENT MACHINES:-

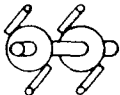
INSERT "G" IN CIRCLE FOR GENERATOR.  
"M" - CIRCLE FOR MOTOR.

FOR ALTERNATING CURRENT MACHINES:-

INSERT "A" IN CIRCLE FOR GENERATOR.  
"M" - CIRCLE FOR MOTOR



ARMATURE AND FIELD WINDING ARE SHOWN SEPARATELY AS ABOVE.

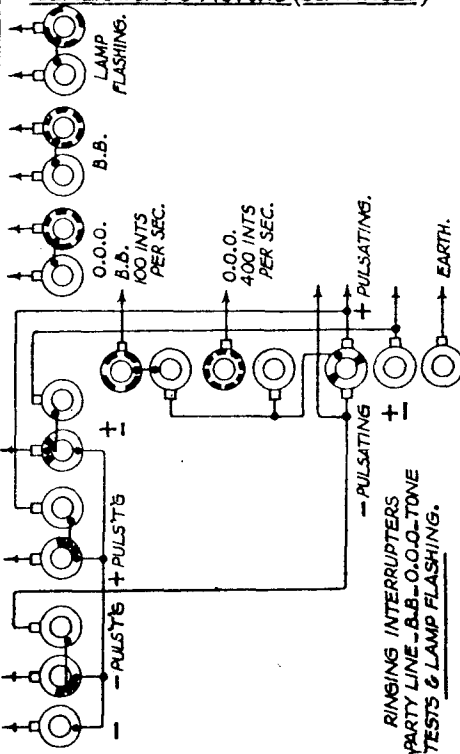


MOTOR GENERATOR

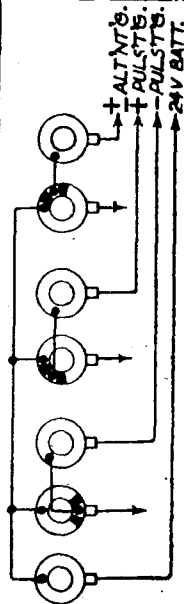


TYPES OF MAGNETO GENERATORS

GENERATORS & MOTORS (CONTINUED)



GENERATORS & MOTORS (CONT'D)



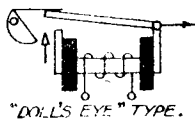
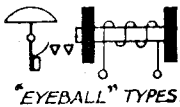
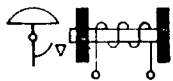
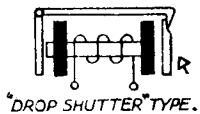
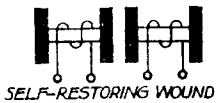
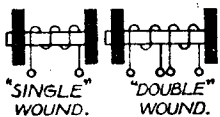
# CONVENTIONS FOR USE IN CIRCUIT DIAGRAMS.

5-2-20.

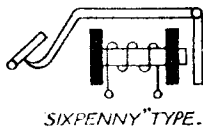
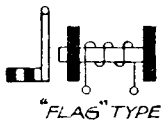
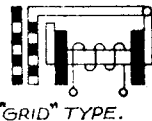
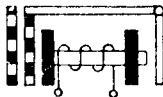
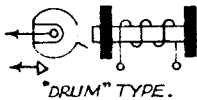
D. 203.

RD. 9 C&R. L'oe 2/20.5000

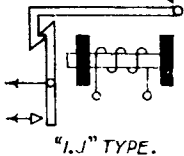
## INDICATORS. TYPES OF WINDINGS.



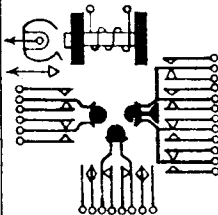
## INDICATORS (CONT'D)



## INDICATOR (CONT'D)

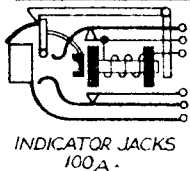


## INDICATORS & KEYS.

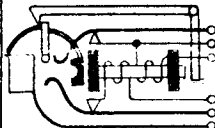


COMBINED INDICATOR AND KEY N<sup>o</sup> 1.

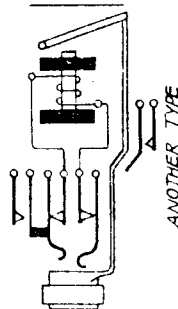
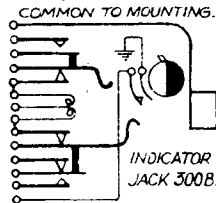
## INDICATOR JACKS.



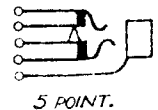
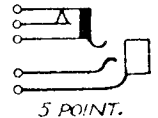
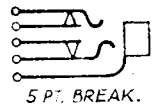
## INDICATOR JACKS (CONT'D)



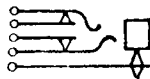
COMMON TO MOUNTING.



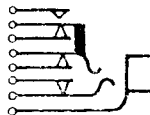
## JACKS.



JACKS (CONTINUED)



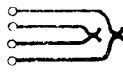
7 PT. BREAK.



8 PT. BREAK.



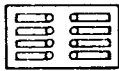
CORDLESS BOARD



TEST CABINET

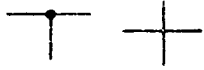


OPERATOR'S-SINGLE



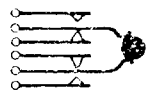
DOUBLE.

JUNCTIONS.

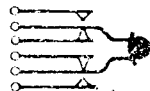


TEES. CROSSES.

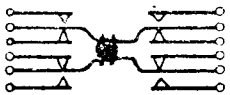
KEYS, SWITCHES & PRESS BUTTONS.



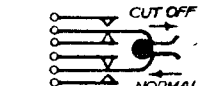
RINGING KEY



SPEAKING KEY.



COMBINED RINGING & SPEAKING KEY.



6 POINT TWO POSITION SWITCH.

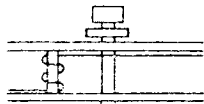
KEYS, SWITCHES & PRESS BUTTONS (CONT'D)



PARTY LINE RINGING KEY, TYPE 407.



REGISTER KEY.

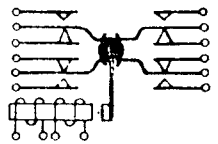


PARTY LINE MACHINE RINGING KEY

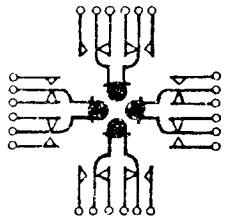


CUT OFF CONTROL KEY

KEYS, SWITCHES & PRESS BUTTONS (CONT'D)



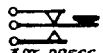
COMBINED RINGING & SPEAKING KEY WITH AUTO-RINGING CONTROL.



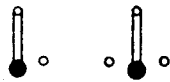
SWITCHING KEY FOR 4 PARTY RINGING, ETC.



SIMPLE PRESS BUTTON



3 PT. PRESS BUTTON.



1 & 2 WAY SWITCHES. SIMPLE CONVENTION.

KEYS, SWITCHES & PRESS BUTTONS (C)



TUMBLER SWIT.



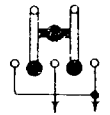
OPEN

1 & 2 WAY KNIFE SWIT

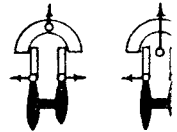


CLOS

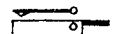
1WAY 2 POLE KNIFE S



POLE CHANGER



3 & 4 POINT RHY JONES KEY.



FOOT SWITCH

## CONVENTIONS FOR USE IN CIRCUIT DIAGRAMS.

KEYS, SWITCHES &  
PRESS BUTTONS (CONT'D)

BELL

ELECTRIC  
LIGHT  
OR BUZZERSEAT SWITCH FOR  
SILENCE CABINET.6 TERMINAL  
2 POSITION SWITCH.

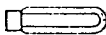
## LAMPS.



SUPERVISORY



SUPERVISORS, PILOT, ETC

60<sup>Ω</sup> RESISTANCE

RINGING RESISTANCE

## PLUGS



C.B. STANDARD.



2 POINT



3 POINT

## MAGNETO



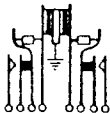
LINKED.



TAPPING

NEW  
PATTERNOLD  
PATTERN  
OPERATORS

## PROTECTOR.

MAIN FRAME TYPE  
WITH HEAT COILS.

TEST CABINET TYPE.



MICA DISC



SAW TOOTH

## RECEIVERS &amp; HOOKS.



ORDINARY



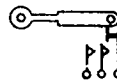
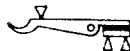
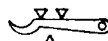
WATCH

RECEIVERS & HOOKS.  
(CONT'D)

HEADGEAR.



ELECTROPHONE.

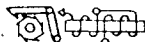


TYPES OF RECEIVER HOOKS

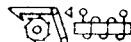
## RECTIFIERS



## METERS. (REGISTERS)



SUBSCRIBERS'

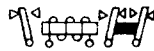
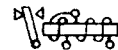


OPERATORS'

## RELAYS

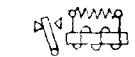


"SINGLE TONGUE"

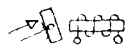
TONGUES MAY BE MULTIPLIED  
AS SHOWN AT EITHER ENDS  
OF THE CORE.12,000<sup>Ω</sup> & 27<sup>Ω</sup>

# CONVENTIONS FOR USE IN CIRCUIT DIAGRAMS.

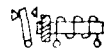
## RELAYS



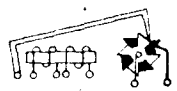
SUPERVISORY



SLOW ACTING.



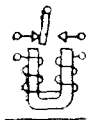
TRIPPING



ELECTROPHONE



POLARIZED



HEADGEAR



VIBRATING.

POLARIZED-OTHER TYPES.

## RELAYS (CONT'D)



7B



1C



6A

TYPICAL WIRING DIAGRAM CONVENTIONS.

## COMBINED RELAY AND LAMP SIGNAL



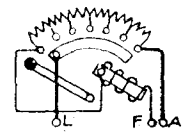
## SOUNDERS



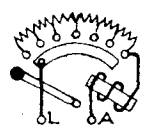
## STARTERS (MOTOR)



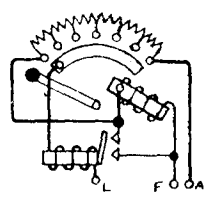
FOR SKELETON DIAGRAMS



WITH NO-VOLTAGE RELEASE FOR SHUNT MOTORS.



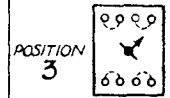
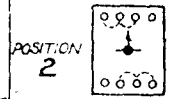
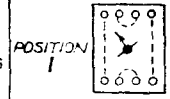
WITH MINIMUM RELEASE FOR SERIES MOTORS



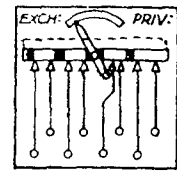
WITH NO-VOLTAGE & OVERLOAD RELEASE FOR SHUNT MOTORS.

## SWITCHES

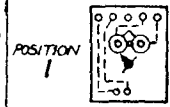
N.T. N°5.



N.T. N°6.

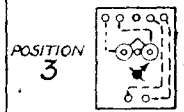
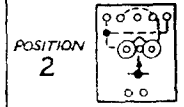


N.T. N°14.

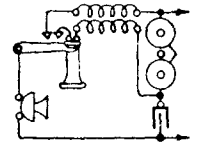


## SWITCHES (CONT'D)

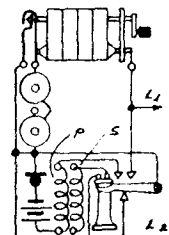
N.T. N°14 (CONT'D)



## TELEPHONES



C.B. SET (W.E. CO)



MAGNETO SET (A TYPE)

## CONVENTIONS FOR USE IN CIRCUIT DIAGRAMS.

P.O. CASE 17-2-20-2000

TELEPHONES (CONT'D)

STANDARD H.M.T.

H.M.T. PORTABLE TELEPHONE  
No. 36.TESTING APPARATUS.AMMETER, THIRD TERMINAL  
FOR TWO SCALES.VOLTMETER, THIRD TERMINAL  
FOR TWO SCALES.TESTING APPARATUS.WATTMETER.  
AS OHMMETER SUBSTITUTE  
"O" FOR "W"RECORDING AMMETER,  
VOLTMETER, ETC.PORTABLE (WESTERN TYPE) METER  
AMMETER, VOLTMETER OR  
COMBINED

LINEMEN'S DETECTORS.



SHUNT FOR AMMETER, ETC.

GALVANOMETER,  
TELEPHONE EXCHANGETRANSMITTERS.

SOLID BACK

GRANULAR.  
(OTHER THAN ABOVE)

OPERATOR'S BREAST PLATE



ELECTROPHONE