

Supplement #5 to
Morkrum Specs. 111 to 112,
Postal Spec. W. S. 5.
September 1924.

MORKRUM MULTIPLEX PRINTING TELEGRAPH SYSTEM

GENERAL

This supplement forms a part of Morkrum Specifications #111 and #112 and Postal W.S. 5, dated January 1923, and covers changes in the Multiplex Correction Circuit, and Forks.

CHANGE IN CORRECTION CIRCUIT

It has been found that by making a slight change in the wiring of the Multiplex correction circuit, that a more regular and stable correction is secured.

Referring to figure 7 of the Multiplex specification, it is to be noted that the switch relay is now connected to the #1 correcting segment and the condenser to the #2 segment, and that the reversals take place on the #2 or condenser segments. It has been found that if the reversal takes place close to the edge of the #2 segment, that the condenser does not get quite enough current to properly charge it, and at times this current is insufficient to properly operate the corrector relay.

The switch relay is more sensitive to short durations of current than is the condenser, so the circuit has been changed, placing the condenser on the #1 segment and the switch relay on the #2 segment. In this case, the switch relay is sensitive enough to be properly operated, even when the reversal occurs on the

very edge of the segment. This change effects the following connection shown on the attached sketch.

1. The wires going to the upper fourth and fifth terminals from the right on the receiving distributor clips are interchanged. This will interchange the condenser and switch relay connections.
2. The wire from the marking, or right-hand contact of the holding relay is moved to the left-hand or spacing contact. That is, the wire going from the fourth terminal from the right of the holding relay clip on the table is moved to the second clip from the right.
3. The wires going to the second and fourth clip from the right on the auto-speed control relay are interchanged. This will bring the range back to the center of the scale.

The various changes have been incorporated in the attached wiring diagram of the distributor table.

FORK CHANGES

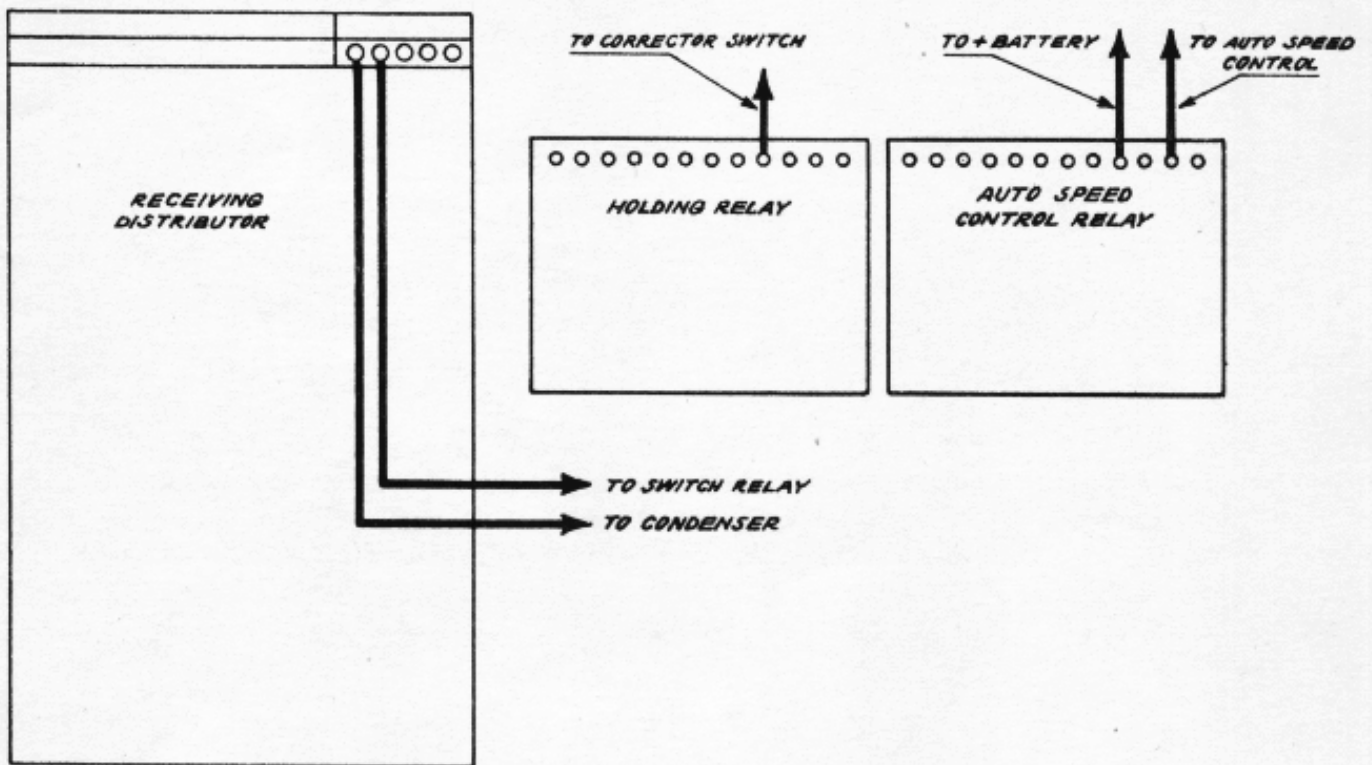
The transmitting and receiving forks have been slightly changed in design to make them adaptable to other than Multiplex purposes. The change on the forks is the addition of the seventh terminal placed in front of the six previously used.

TRANSMITTING FORK

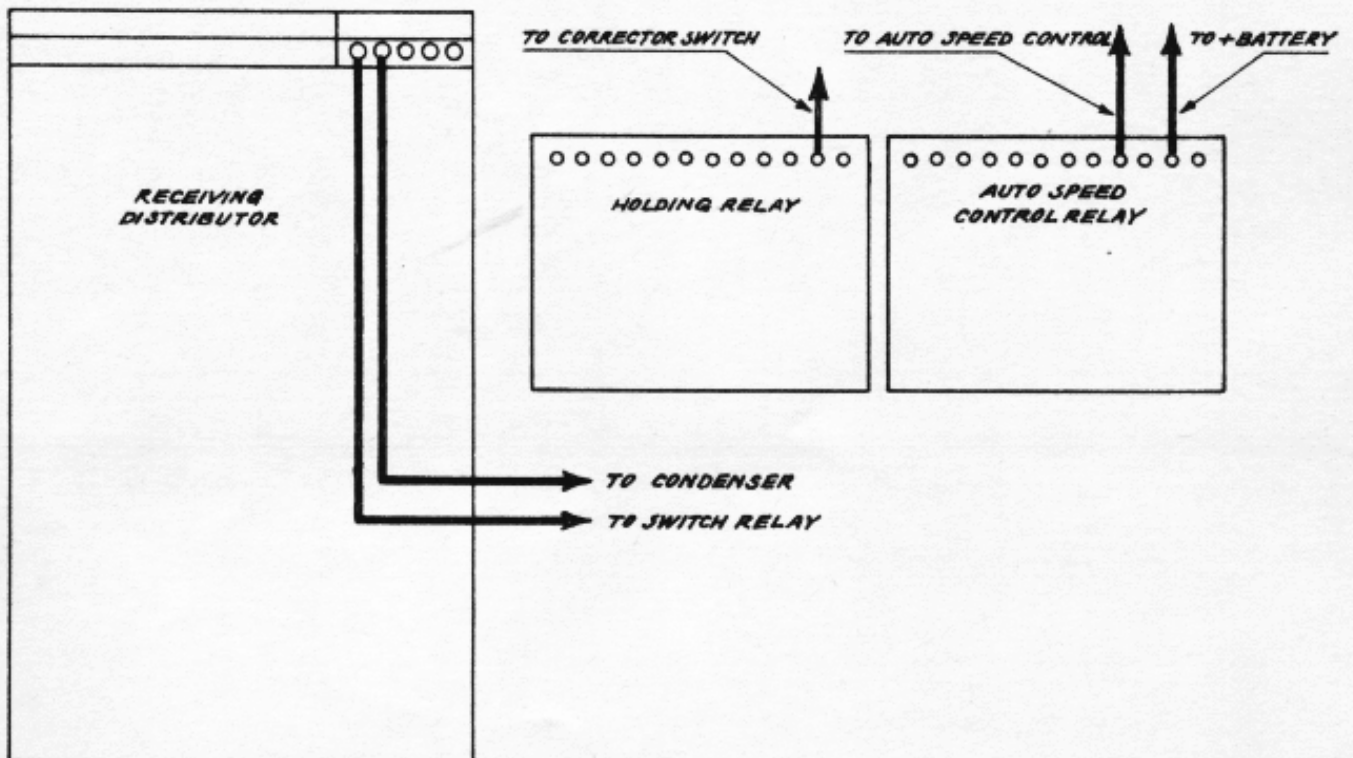
On the transmitting fork, this terminal is not used, so that the fork is substantially the same as it previously was with the exception of the mechanical addition of the terminal.

CHANGE IN CORRECTOR CIRCUIT WIRING.

ORIGINAL WIRING.



WIRING AS CHANGED.

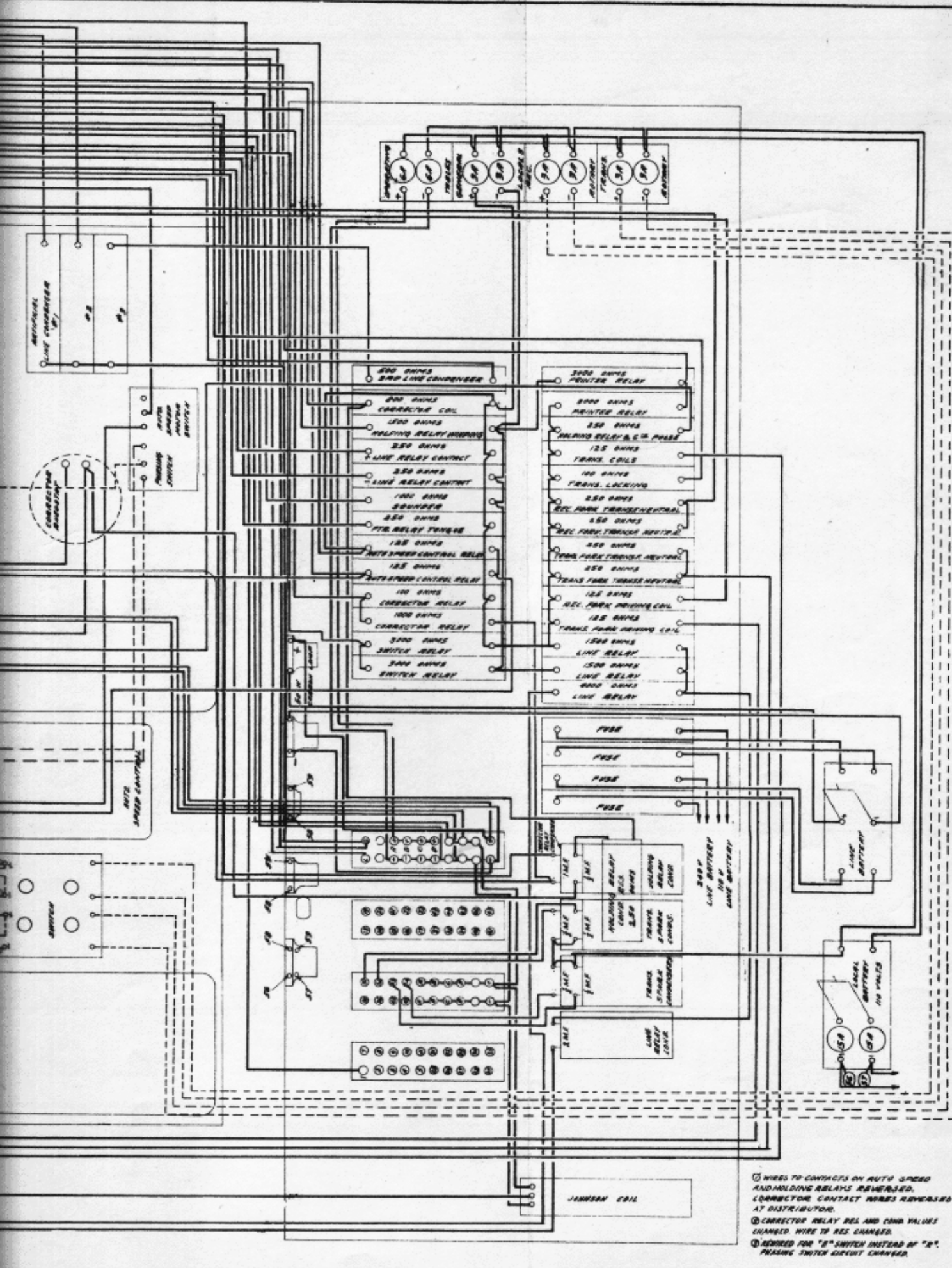


Wiring diagram #604 superseding #417 shows the new transmitting fork. The wiring of the two forks is exactly the same as it is to be noted that the only change is the addition of the front terminal.

RECEIVING FORK

The receiving fork is shown in the wiring diagram #605 which supersedes wiring diagram #495 in the original specification. It is to be noted that in this case that the extreme right-hand contact is connected to the added seventh terminal. Otherwise, the new receiving fork is identical with the old one.

A.S.B. 9/22/24.

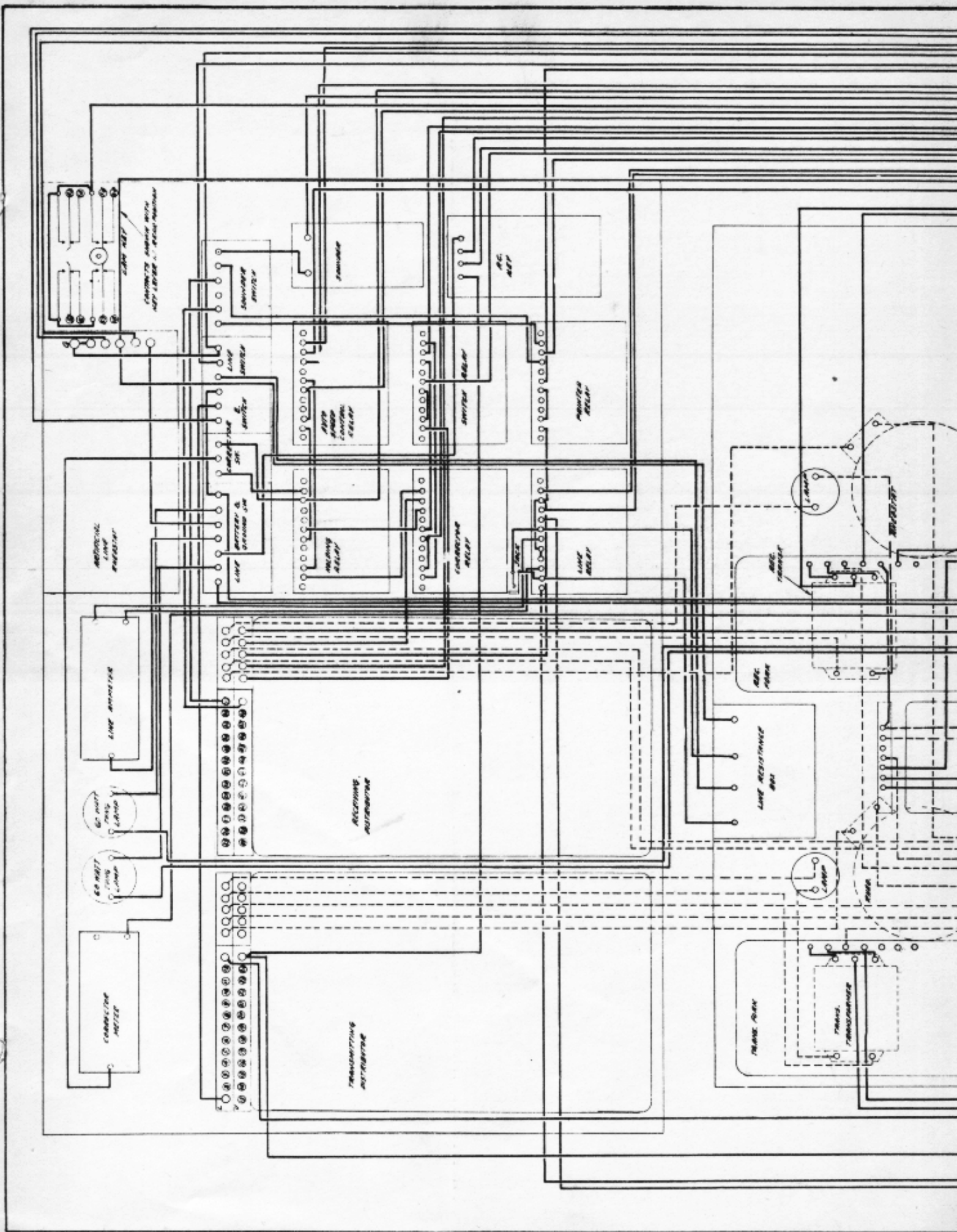


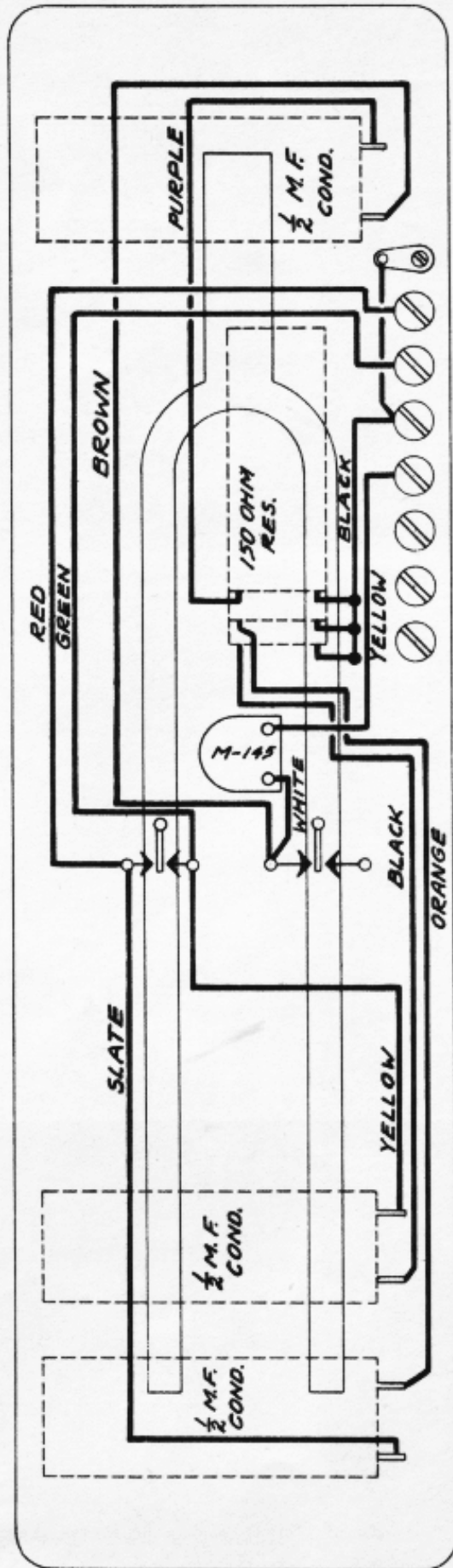
① WIRES TO CONTACTS ON AUTO SPEED AND HOLDING RELAYS REVERSED. CORRECTOR CONTACT WIRES REVERSED AT DISTRIBUTOR.
 ② CORRECTOR RELAY REL AND COIL VALUES CHANGED. WIRE TO RES CHANGED.
 ③ REVISED FOR "B" SWITCH INSTEAD OF "R". PHASING SWITCH CIRCUIT CHANGED.

MORCRUM CO.
572
 DEC. 3, 1923
 WIRING DIAGRAM
MDT5
 (100)
MDT8
 TABLE

① REVISED 7-23-24
 ② REVISED 4-1-24
 ③ REVISED 1-28-23

DRAWN BY W.H.H.
 TRACED BY J.J.P.
 CHECKED BY
 REVISED BY R.S.D.
 APPROVED BY





MORKRUM CO.

604

JULY 9, 1924

WIRING DIAGRAM
FOR FORK

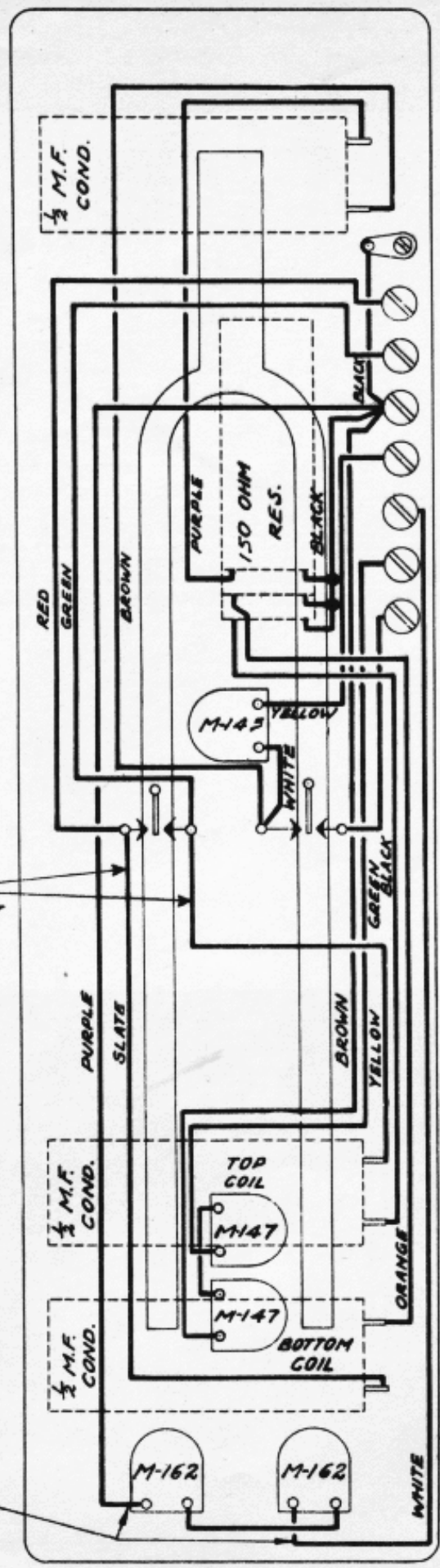
XF3

DRAWN A.S.B.
TRACED A.D.
CHECKED
ENG'R'D
APPROVED

A.S.B.

REVISIONS

- ① JUMPER ON M-MT COILS CHANGED A.S.B. JULY 7, 1926
- ② RF 6 ADDED MARCH 13, 29 REA



WHEN USED ON REPEATERS (RF4) DISCONNECT AND TAPE THESE WIRES

ON RF 6, 2 M-162 COILS ARE OMITTED AND WIRES TAPED

TELETYPE CORPORATION
 605
 JULY 8, 1924
 REVISION
 7-2-26 A.S.B.
 605-A
 MARCH 13, 29 REA

WIRING DIAGRAM
 RF 3 RF 4
 RF 6 FORKS

DRAWN A.S.B.
 TRACED A.D.
 CHECKED
 ENG'R'D *asp.*
 APPROVED