# RECTIFIERS FOR TELETYPewriter STATION APPARATUS

## WIRING DIAGRAM

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### 1. GENERAL

1.01 This section shows the wiring schematics for rectifiers specified for use with Operating Company owned teletypewriter station apparatus. Also covered are some common types of rectifiers associated with customer-owned Teletypewriter station apparatus that may be maintained by Operating Company personnel.

1.02 Abbreviations: In this section Mfr Disc. means Manufacture Discontinued, and Std means Standard.

1.03 The schematic drawings for rectifiers not included in this section are as follows:

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The TP151999, TP152950, and TP162361 rectifier assemblies are so simple in design that no schematics have been included for them. No schematic drawing is available on the TP145204 rectifier. Information on it can be obtained from the Power Equipment Company, (Galion, Ohio) catalog No. PEC 2564.
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2. RECTIFIER CIRCUIT SCHEMATICS

Figure 1 - KS-5300, List 1 and List 3 (both Mfr Disc.) - Circuit Schematic

Figure 2 - KS-5536, List 1 (Mfr Disc.) - Circuit Schematic
Figure 3 - KS-5536, O1 (Mfr Disc.) - Circuit Schematic

Figure 4 - KS-5579, List 1 (Mfr Disc.) - Circuit Schematic
Figure 5 – KS-5663, List 1 (Mfr Disc.) – Circuit Schematic

Figure 6 – KS-5663, List 2 (Mfr Disc.) and List 3 (Mfr Disc.) – Circuit Schematic

Figure 7 – KS-5663, List 4 (Mfr Disc.), List 5, and List 7 – Circuit Schematic
NOTES:

A. BUSSMANN MDL 3/4 A 250V AC OR APP EQUIV.

B. BUSSMANN MDL 1A 125V AC OR APP EQUIV.

C. USE TAP "B" WHEN OUTPUT VOLTAGE EXCEEDS 135 VOLTS UNDER LOAD CONDITIONS. USE TAP "A" WHEN OUTPUT VOLTAGE IS BELOW 125 VOLTS UNDER LOAD CONDITIONS.

D. TERMINALS 6, 7, 8, 9 & 12, 13, 14, ARE FACTORY ADJUSTED TAPS.

E. CRI, CR2, CR3 AND CR4 ARE WESTINGHOUSE 320D SILICON DIODES.

Figure 8 – KS-5663, List 6 – Circuit Schematic

Figure 9 – KS-5663, List 8 – Circuit Schematic
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NOTES:
A. BUSSMANN MOL 3/4 A 250 VAC OR APPD EQUIV.
B. BUSSMANN MOL IA 125 VAC OR APPD EQUIV.
C. USE TAP "B" WHEN OUTPUT VOLTAGE EXCEEDS 135 VOLTS UNDER LOAD CONDITIONS.
   USE TAP "A" WHEN OUTPUT VOLTAGE IS BELOW 125 VOLTS UNDER LOAD CONDITIONS.
D. TERMINALS 9, 10, 11, 14, 15, AND 16 ARE FACTORY ADJUSTED TAPS.
E. FUSES DESIGNATED "FN" SHALL BE OF THE MULTIPLE ELEMENT (TIME DELAY) TYPE.

Figure 10 - KS-5663, List 9 - Circuit Schematic
NOTES:
A. BUSSMANN MOL 3/4A 250VAC OR APPD EQUIV.
B. BUSSMANN MOL IA 125VAC OR APPD EQUIV.
C. USE TAP "B" WHEN OUTPUT VOLTAGE EXCEEDS 135 VOLTS UNDER LOAD CONDITIONS.
   USE TAP "A" WHEN OUTPUT VOLTAGE IS BELOW 125 VOLTS UNDER LOAD CONDITIONS.
D. TERMINALS 9, 10, 11, 14, 15, AND 16 ARE FACTORY ADJUSTED TAPS.
E. FUSES DESIGNATED "FN" SHALL BE OF THE MULTIPLE ELEMENT (TIME DELAY) TYPE.

Figure 11 - KS-5663, List 10 - Circuit Schematic
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Figure 12 - KS-5740 (Mfr Disc.), List 1 and List 2 (Mfr Disc.) - Circuit Schematic

Figure 13 - KS-5769, List 1 (Mfr Disc.) - Circuit Schematic
Figure 14 - KS-5769, List 2 (Mfr Disc.) - Circuit Schematic
Figure 15 – KS-5769, List 3 – Circuit Schematic

Note: Options X and Y are for manufacturer's use and are not to be changed in the field.
NOTES:
1. THE REGULATOR AND REACTOR COILS SHALL BE DESIGNATED RR5 AND RA5 RESPECTIVELY FOR LIST 1 AND RR11 AND RA11 RESPECTIVELY FOR LIST 2.

Figure 16 - KS-5928, List 1 (Mfr Disc.) and List 2 - Circuit Schematic
Figure 17 – KS-5928, List 3 (Mfr Disc.) – Circuit Schematic

Figure 18 – KS-5928, List 4 (Mfr Disc.) – Circuit Schematic
Figure 19 - KS-5928, List 6 (Mfr Disc.) - Circuit Schematic

Note 1: Terminals 7, 8, 9, and 10 of the reactor are set by the manufacturer and shall not be changed in the field.

Figure 20 - KS-5928, List 7 - Circuit Schematic

Note 1: (T1) Transformer taps 3, 4, and 5 are selected at the factory.
Figure 21 - KS-5928, List 8 – Circuit Schematic

Figure 22 - KS-5988, List 1 – Circuit Schematic
Figure 23 – KS-15523, List 1 (Mfr Disc.) – Circuit Schematic

Figure 24 – KS-15523, List 4 – Circuit Schematic
Figure 25 - KS-15620, List 1 (Mfr Disc.) - Circuit Schematic

Figure 26 - KS-15620, List 2 (Mfr Disc.) - Circuit Schematic
Figure 27 - KS-15620, List 3 (Mfr Disc.) – Circuit Schematic

Figure 28 - KS-15620, List 4 (Mfr Disc.) – Circuit Schematic
Figure 29 - KS-15620, List 6 - Circuit Schematic
Figure 30 – KS-15620, List 7 (Mfr Disc.) – Circuit Schematic

Note: Terminals 2, 3, 4, 5, and 6 of List 1 are for manufacturer's use only.

Figure 31 – KS-15620, List 8 – Circuit Schematic
Figure 32 - KS-15620, List 9 - Circuit Schematic

Figure 33 - KS-15620, List 10 - Circuit Schematic
Figure 34 - KS-15620, List 12 - Circuit Schematic

Figure 35 - KS-15898, List 1 - Circuit Schematic
Figure 36 - J70124H, List 1 - Circuit Schematic

Note 1: The ac input is fused with a 1.0 amp Fusetron (or equivalent) in power distribution unit.

Figure 37 - J86205J, List 1 (Mfr Disc.) - Circuit Schematic
NOTE:
1. THE SAME SUPPLIER SHOULD BE USED FOR RVI AND RV2.

Figure 38 – J86256A, List 1 – Circuit Schematic

NOTE:
1. THE SAME SUPPLIER SHOULD BE USED FOR RVI AND RV2.

Figure 39 – J86256B, List 1 (Mfr Disc.), and List 2 – Circuit Schematic
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Figure 40 - J87215A, List 1 - Circuit Schematic

Figure 41 - REC-13, 14 (both Mfr Disc.) - Circuit Schematic
Figure 42 – REC-36 (Mfr Disc.) – Circuit Schematic

Figure 43 – TP170573 – Circuit Schematic