| Heater No. | Trans-former No. | Lead Amps | Lead Unit | Connect Socket | Connect Terminal | To Socket | To Terminal | With Wire of Size | With Wire of Length* | On Drawing No. PX-5- |
|---|---|---|---|---|---|---|---|---|---|---|
| $H_{6-4}$ | 1 | 7.95 | Decade No. 4 | $SM_1$ | 1/2 | $S_{24}$ | 9/10 | No. 10 | 4½ ft. | 116 |
| | | 1.50 | Gate Unit | | | Gate Unit | $H_{6-4}$ | No. 16 | 1 ft. | 117 |
| $H_{5-4}$ | 2 | 8.10 | Decade No. 4 | $SM_1$ | 3/4 | $S_{24}$ | 12/11 | No. 10 | 4½ ft. | 116 |
| $H_{6-5}$ | 3 | 7.95 | Decade No. 5 | $SM_1$ | 5/6 | $SB_5$ | 9/10 | No. 10 | 4½ ft | 116 |
| | | 1.50 | Gate Unit | | | Gate Unit | $H_{6-5}$ | No. 16 | 1 ft. | 117 |
| $H_{5-5}$ | 4 | 8.10 | Decade No. 5 | $SM_1$ | 7/8 | $SB_5$ | 12/11 | No. 10 | 4½ ft | 116 |
| $H_{6-6}$ | 5 | 7.95 | Decade No. 6 | $SM_1$ | 9/10 | $SB_6$ | 9/10 | No. 10 | 4½ ft | 116 |
| | | 1.50 | Gate Unit | | | Gate Unit | $H_{6-6}$ | No. 16 | 1 ft. | 117 |
| $H_{5-6}$ | 6 | 8.10 | Decade No. 6 | $SM_1$ | 11/12 | $SB_1$ | 12/11 | No. 10 | 4½ ft | 116 |
| $H_{6-1}$ | 7 | 7.95 | Decade No. 1 | $SM_2$ | 1/2 | $SB_1$ | 9/10 | No. 10 | 4½ ft | 116 |
| | | 1.50 | Gate Unit | | | Gate Unit | $H_{6-1}$ | No. 16 | 1 ft. | 117 |
| $H_{5-1}$ | 8 | 8.10 | Decade No. 1 | $SM_2$ | 3/4 | $SB_1$ | 12/11 | No. 10 | 4½ ft | 116 |
| $H_{6-2}$ | 9 | 7.95 | Decade No. 2 | $SM_2$ | 5/6 | $SB_2$ | 9/10 | No. 10 | 4½ ft | 116 |
| | | 1.50 | Gate Unit | | | Gate Unit | $H_{6-2}$ | No. 16 | 1 ft. | 117 |
| $H_{5-2}$ | 10 | 8.10 | Decade No. 2 | $SM_2$ | 7/8 | $SB_2$ | 12/11 | No. 10 | 4½ ft. | 116 |
| $H_{6-3}$ | 11 | 7.95 | Decade No. 3 | $SM_2$ | 9/10 | $SB_3$ | 9/10 | No. 10 | 4½ ft | 116 |
| | | 1.50 | Gate Unit | | | Gate Unit | $H_{6-3}$ | No. 16 | 1 ft | 117 |
| $H_{5-3}$ | 12 | 8.10 | Decade No. 3 | $SM_2$ | 11/12 | $SB_3$ | 12/11 | No. 10 | 4½ ft | 116 |
| [illegible] | 13 | 2.40 | 1-[illegible] | $SM_3$ | 1/2 | $SJ_{3,4}$ | 7/8 | No. 16 | 1½ ft | 118 |
| | | [illegible] | 2-Transc. | | | $SJ_{5,6}$ | 7/8 | No. 16 | 2(6 in.) | 118 |
| | | | Resistor | $SM_3$ | 1/2 | 6-10 Ω Resistors | | No. 16 | 4 in. | 118 |
| $H_{6-12}$ | 14 | 1.95 | 1-Repeater | $SM_3$ | 3/4 | SL | 1/2 | No. 14 | 2 ft. | 118 |
| | | 1.20 | 2-Receivers | | | $SJ_{1,2;3,4}$ | 9/10 | No. 14 | 2(4 in.) | 118 |
| | | 5.70 | Gate Unit | | | Gate Unit | $H_{6-12}$ | No. 14 | 3½ ft | 117 |
| $H_{1-3}$ | 15 | 5.40 | 1-Repeater | $SM_3$ | 5/6 | SL | 6/5 | No. 14 | 1½ ft. | 117 |
| | | 2.40 | 1-Receiver | | | $SJ_{1,2}$ | 7/8 | No. 18 | 4 in | 117 |
| | | 0.63 | Resistor | $SM_3$ | 5/6 | 1-10 Ω Resistor | | No. 18 | 2 in. | 117 |
| $H_{2-1}$ | [illegible] | 3.60 | 2-Receivers | $SM_3$ | 7/8 | $SJ_{1,2;3,4}$ | 6/5 | No. 14 | 16 in. + 6 in. | 117 |
| | | 3.00 | 2-Transc. | | | $SJ_{5,6}$ | 6/12 | No. 16 | 2(6 in.) | 117 |
| | | 0.60 | Gate Unit | | | Gate Unit | $H_{2-1}$ | No. 18 | 3 ft | 117 |
| | | 1.89 | Resistor | $SM_3$ | 7/8 | 3-10 Ω Resistors | | No. 18 | 6 in. | 118 |
| $H_{2-3}$ | 17 | 3.60 | 2-Receivers | $SM_3$ | 9/10 | $SJ_{1,2;3,4}$ | 11/12 | No. 14 | 1½ ft + 3 in. | 118 |
| | | 5.40 | 3-Transc. | | | $SJ_{5,6}$ | 5/11 | No. 14 | 3(4 in.) | 118 |
| $H_{4-2}$ | 18 | 3.60 | 8-Transc. | $SM_3$ | 11/12 | $SJ_{1,2;3,4;5,6;7,8}$ | 14/15 | No. 18 | 15 in. + 7(3 in.) | 118 |
| | | 3.60 | Gate Unit | | | Gate Unit | $H_{4-2}$ | No. 16 | 2 ft | 117 |
| | | 1.89 | Resistor | $SM_3$ | 11/12 | 3-10 Ω Resistors | | No. 18 | 6 in. | 118 |

NOTE:
THE LEAD ON DRAWING PX-5-117 IS WRONG AS SHOWN ON $H_{2-11}$. THE OTHER LEADS AS SHOWN IN ABOVE CHART WOULD REQUIRE LEAD TO BE WIRED ON $H_{6-12}$

| Heater No. | Trans-former No. | Lead Amps | Lead Unit | Connect Socket | Connect Terminal | To Socket | To Terminal | With Wire of Size | With Wire of Length* | On Drawing No. PX-5- |
|---|---|---|---|---|---|---|---|---|---|---|
| $H_{3-1}$ | 19 | 9.15 | Gate Unit | $SM_4$ | 1/2 | Gate Unit Term. No. 1 to -295 | $H_{3-1}$ | No. 12 | 4 ft | 117 |
| $H_{1-1}$ | 20 | 7.20 | 6-Transc. | $SM_4$ | 3/4 | $SH_{1,2}$ to 7 | 7/8 | No. 14 | 1½ ft + 5(5 in.) | 118 |
| | | 1.25 | Gate Unit | | | Gate Unit | $H_{1-1}$ | No. 18 | 4½ ft. | 117 |
| $H_{4-1}$ | 21 | 7.80 | Gate Unit | $SM_4$ | 5/6 | Gate Unit Term. Nos. 6-133 | $H_{4-1}$ | No. 14 | 3½ ft. | 117 |
| | | 0.63 | Resistor | $SM_4$ | 5/6 | 1-10 Ω Resistor | | No. 18 | 6 in. | 118 |
| $H_{2-2}$ | 22 | [illegible] | 6-Transc. | $SM_4$ | 7/8 | $SH_{1,2}$ to 7 | 6/12 | No. 14 | 1½ ft + 5(5 in.) | 118 |
| $H_{6-13}$ | 23 | 8.40 | 4-Transc. | $SM_4$ | 9/10 | $SH_{1,2}$ to 4 | 9/10 | No. 14 | 1½ ft + 3(5 in.) | 118 |
| $H_{3-2}$ | 24 | 9.00 | 5-Transc. | $SM_4$ | 11/12 | $SH_{1,2}$ to 8 | 5/14 | No. 14 | 1½ ft + 4 in. | 118 |
| $H_{6-10}$ | 25 | 7.95 | Decade No. 10 | $SM_5$ | 1/2 | $SB_{10}$ | 9/10 | No. 10 | 4½ ft | 116 |
| | | 1.50 | Gate Unit | | | Gate Unit | $H_{6-10}$ | No. 16 | 1 ft. | 117 |
| $H_{5-10}$ | 26 | 8.10 | Decade No. 10 | $SM_5$ | 3/4 | $SB_{10}$ | 12/11 | No. 16 | 4½ ft | 116 |
| $H_{6-11}$ | 27 | 1.05 | Pig & Clear | $SM_5$ | 5/6 | SLB | 1/2 | No. 12 | 4½ ft | 116 |
| | | 1.50 | Gate Unit | | | Gate Unit | $H_{6-11}$ | No. 16 | 1 ft. | 117 |
| $H_{5-11}$ | 28 | 8.40 | Pig & Clear | $SM_5$ | 7/8 | SLB | 3/4 | No. 12 | 4½ ft | 116 |
| $H_{6-14}$ | 29 | 8.40 | 4-Transc. | $SM_5$ | 9/10 | $SH_{3,4;5,6}$ | 9/10 | No. 14 | 1½ ft + 3(5 in.) | 118 |
| [illegible] | [illegible] | [illegible] | Resistor | [illegible] | [illegible] | [illegible] | [illegible] | No. 18 | 6 in. | [illegible] |
| [illegible] | 30 | [illegible] | Pig & Clear | $SM_5$ | [illegible] | 1 R | 3/4 | [illegible] | 4½ ft | [illegible] |
| | | [illegible] | Resistor | [illegible] | [illegible] | 3-10 Ω Resistors | | [illegible] | [illegible] | [illegible] |
| $H_{6-7}$ | 31 | 7.95 | Decade No. 7 | [illegible] | 1/2 | $SB_7$ | 9/10 | No. 10 | 4½ ft | [illegible] |
| | | 1.50 | Gate Unit | | | Gate Unit | $H_{6-7}$ | No. 16 | 1 ft. | 117 |
| $H_{5-7}$ | 32 | 8.10 | Decade No. 7 | $SM_6$ | 3/4 | $B_7$ | 12/11 | No. 10 | 4½ ft | 116 |
| $H_{6-8}$ | 33 | 7.95 | Decade No. 8 | $SM_6$ | 5/6 | $SB_8$ | 9/10 | No. 10 | 4½ ft | 116 |
| | | 1.50 | Gate Unit | | | Gate Unit | $H_{6-8}$ | No. 16 | 1 ft. | 117 |
| $H_{5-8}$ | 34 | 8.10 | Decade No. 8 | $SM_6$ | 7/8 | $SB_8$ | 12/11 | No. 10 | 4½ ft | 116 |
| $H_{6-9}$ | 35 | 7.95 | Decade No. 9 | $SM_6$ | [illegible] | $SB_9$ | 9/10 | No. 10 | 4½ ft | [illegible] |
| | | 1.50 | Gate Unit | | | Gate Unit | $H_{6-9}$ | No. 16 | 1 ft. | 117 |
| $H_{5-9}$ | 36 | 8.10 | Decade No. 9 | $SM_6$ | 11/12 | $SB_9$ | 12/11 | No. 10 | 4½ ft | 116 |

* Lead = [illegible] for single run.

1 Foot [illegible] Lead [illegible]

| | |
|---|---|
| #10 | 16 ft. |
| #12 | 26 ft. |
| #14 | 69 ft. |
| #16 | 35 ft. |
| #18 | 22 ft. |

Heater Resistances

| | |
|---|---|
| $H_1$ | = 555 volts |
| $H_2$ | = 456 " |
| $H_3$ | = 295 " |
| $H_4$ | = 135 " |
| $H_5$ | = 85 " |
| $H_6$ | 0 " |

| Revisions | |
|---|---|
| 11 Resistors Removed H. Gail 7-8-44 Note No. Lead Revised | 1 |
| Description of Revision | |

MOORE SCHOOL OF ELECTRICAL ENGINEERING
UNIVERSITY OF PENNSYLVANIA

Acc. Heater Table

| Drawn by: | Checked by: | Approved by: | |
|---|---|---|---|
| Gail 6 July-1944 | [illegible] 6 July 1944 | [illegible] 6-6 44 | PX-5-120 |