BLOCKS INDICATED FOR ACC. 1, ACC. 2 ARE INSIDE OUTER BLOCK ON 18 COND. CABLE

BLOCKS ON NEW PANEL TO BE CONNECTED TO ACC. 1 BLOCKS

Corner 1

CONNECTIONS SIMILAR TO THOSE ON ACC. PAN. CORNER 2

| VOLTAGE | WIRE COLOR | INIT. UNIT | CTO. UNIT | M.P. PAN. 1 | M.P. PAN. 2 | ACC. 1 | ACC. 2 | ACC. 3 | ACC. 4 | DR. | ACC. 5 | ACC. 6 | ACC. 7 | ACC. 8 | ACC. 9 | ACC. 10 | ACC. 11 | ACC. 12 | MULT. PAN. 1 | MULT. PAN. 2 | MULT. PAN. 3 | ACC. 13 | ACC. 14 | ACC. 15 | ACC. 16 | CONNECT |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| +550<br>595 | WH Br<br>Y R G | 1-7<br>1-8 | | | | | | | | | | | | | | | | | 3-7<br>3-8 | | | | | | | 1-1<br>1-2 |
| 505<br>500 | W Sl<br>W Bk Br | 1-9<br>1-10 | | | | | | | | 1-1 | | | | | | | | | 3-9<br>3-10 | | | | | | | 1-3<br>1-4 |
| Spare 3<br>450 | W O 2<br>W R Br | 1-11<br>1-12 | | 2-6 | 2-6 | | | | | 1-4 | | | | | | | | | | | | | | | | 1-5<br>1-6 |
| 370<br>365 | W R G<br>Br W | 1-1<br>1-3 | | 2-11 | 2-11 | | | | | 1-9<br>1-10 | | | | | | | | | | | | | | | | 1-8<br>1-10 |
| 330<br>Spare 2 | G Bk<br>O | 1-4<br>1-5 | | | | | | | | | | | | | | | | | 2-9 | | | | | | | 1-11<br>1-12 |
| 290<br>285 | Bk<br>Y Bk | 1-6<br>1-13 | 2-2 | 2-12<br>2-7 | 2-12<br>2-7 | | 2-7 | | | 1-1 | | | | | | | | | 3-11<br>2-7 | | | | | | | 1-13<br>1-14 |
| 280<br>Spare 1 | Br W<br>O Bk | 1-14<br>1-15 | | | | | | | | 1-2 | | | | | | | | | | | | | | | | 1-15<br>1-9 |
| 260<br>250 | O<br>Bk | 1-16<br>1-17 | 2-6 | 2-16<br>2-17 | 2-16<br>2-17 | | 3-16<br>2-10 | | | 1-9 | | | | | | 1-18 | | | | | | | | | | 1-17<br>1-18 |
| 225B<br>220 | Bl W 16<br>Y Bk | 1-18<br>2-1 | 3-7 | 3-7<br>2-10 | 3-7<br>2-10 | 3-7 | 3-1 | 3-7 | 3-7 | 1-4 | 3-7 | 3-7 | 3-7 | 3-7 | 3-7 | 3-7 | 2-1 | 3-7 | 3-7 | 2-3 | 3-6 | 2-7 | 3-7 | 3-7 | 3-7 | 3-7 | 2-1<br>2-2 |
| 200<br>195 | W R 18<br>Br W | 2-2<br>2-3 | | 2-14 | 2-14 | | 2-11 | | | 1-3 | | | | | | | | | | | | | | | | 2-3<br>2-4 |
| 160<br>150A | O Bk<br>R 18 | 2-4<br>2-5 | 3-13 | 2-16<br>3-9 | 2-16<br>3-9 | 3-16 | 2-6 | | | 1-2<br>1-1 | 3-9 | 3-9 | 3-9 | | | | | 3-9 | 3-4 | 2-5 | 3-7 | | | | | 2-5<br>2-6 |
| 150B<br>130 | R 18<br>O | -<br>2-6 | | | | | | 3-9 | 3-9 | | | | | 3-9 | 3-9 | 3-9 | 3-9 | | | | | 3-9 | 3-9 | 3-9 | 3-9 | 2-7<br>2-8 |
| 110A<br>110B | Br Bk 12<br>Br Bk 12 | -<br>- | | | | | | 3-9 | 3-9 | | | | | 3-9 | 3-9 | 3-9 | 3-9 | - | - | - | 3-9 | 3-9 | 3-9 | 3-9 | 3-9 | 2-9<br>2-10 |
| 110C<br>100 | Br Bk 12<br>W Bl 16 | 2-8<br>2-9 | 2-17/18 | 3-5 | 3-5 | 3-5 | 3-8<br>2-8 | | | 1-17/18 | 3-5 | 3-5 | 3-3 | | | | | 3-5 | 3-5 | 2-4 | | | | | | 2-11<br>2-12 |
| 95<br>60 | Bk<br>Bk Y | 2-10<br>2-11 | 2-5 | 2-13 | 2-13 | | 2-5 | | | 1-13 | | | | | | | | | | | | | | | | 2-13<br>2-14 |
| 75<br>55A | Bk W 18<br>W Bk 18 | 2-12<br>2-13 | 3-6<br>3-18 | 3-4 | 3-4 | 3-4 | 2-9 | 3-4 | 3-4 | 1-14 | 3-4 | 3-4 | 3-4 | 3-4 | 3-4 | 3-4 | 3-4 | 3-4 | 3-1 | 3-3 | 2-3 | 3-4 | 3-4 | 3-4 | 3-4 | 2-15<br>2-16 |
| 50A<br>50B | Br Bk 12<br>" | -<br>2-14 | 3-3 | 3-2 | 3-2 | | | | | 1-15 | 3-2 | 3-2 | 3-2 | 3-2 | 3-2 | 3-2 | 3-2 | 3-2 | 2-2 | 2-6 | 2-2 | | | | | 3-3<br>3-4 |
| 50C<br>50D | "<br>" | -<br>- | | | | 3-2 | 3-3 | 3-2 | 3-2 | | | | | | | | | | | | | 3-2 | 3-2 | 3-2 | 3-2 | 3-7<br>3-8 |
| 25A<br>25B | "<br>" | -<br>2-15 | | 3-1 | 3-1 | 3-1 | | 3-1 | 3-1 | 1-16 | 3-1 | 3-1 | 3-1 | 3-1 | 3-1 | 3-1 | 3-10 | 3-1 | 3-1 | 3-2 | 3-1 | 3-2 | 3-1 | 3-1 | 3-1 | 3-9<br>3-10 |
| 20A<br>20B | "<br>" | -<br>2-16 | 3-2 | 3-6 | 3-6 | 3-6 | 2-9 | 3-6 | 3-6 | 2-1 | 3-6 | 3-6 | 3-6 | 3-6 | 3-6 | 3-6 | 3-6 | 3-6 | 3-3 | 3-2 | 3-4 | 3-6 | 3-6 | 3-6 | 3-6 | 3-11<br>3-12 |
| 0C<br>0B<br>0D | Br 12<br>"<br>" | -<br>2-17<br>2-18 | 3-1 | 3-3 | 3-3 | 3-3<br>3-17 | 3-12<br>2-3 | 3-3 | 3-3 | 2-2 | 3-3 | 3-3 | 3-3 | 3-3 | 3-3 | 3-3 | 3-16 | 3-3 | 2-1 | 3-5 | 2-4 | 3-3 | 3-3 | 3-3 | 3-3 | 3-15<br>3-16<br>3-17 |
| -1.5<br>-10 | Br Bk 12<br>O | 3-1<br>3-2 | 3-4 | 3-15 | 3-15 | 3-15 | 2-1 | 3-15 | 3-15 | 2-3 | 3-15 | 3-15 | 3-15 | 3-15 | 3-15 | 3-15 | 3-15 | 3-15 | | 2-1 | 1-1 | 3-15 | 3-15 | 3-15 | 3-15 | 3-18<br>4-1 |
| -40<br>-75 | W Bk 18<br>O Bk | 3-3<br>3-4 | 3-5 | 3-16<br>2-6 | 3-16<br>2-6-Black | 3-16<br>2-6 | 3-14 | 3-16 | 3-16 | 2-4<br>2-5 | 3-16 | 3-16 | 3-16 | 3-16 | 3-16 | 3-16 | 4-2 | 3-16 | 3-16 | 3-13 | 2-2 | 1-2 | 3-16 | 3-16 | 3-16 | 3-16 | 4-2<br>4-3 |
| -60<br>-65A | Bk<br>Br Bk 12 | 3-5 | | | | | | 2-6<br>3-17 | 2-6<br>3-17 | | 2-6 | 2-6 | 2-6 | 2-6 | 2-6 | 2-6 | | 2-6 | | | | 1-3 | 2-6 | 2-6 | 2-6 | 2-6 | 4-4<br>4-5 |
| -90<br>-95 | Y Bk<br>Br W | 3-7<br>3-8 | | | | | 3-15/16 | | | 2-7 | | | | | | | | | | | | | | | | 4-6<br>4-7 |
| -105<br>-115 | O Bk<br>Y Bk | 3-13<br>3-14 | | 3-12 | 3-12 | 3-12 | 3-4 | 3-12(Blk)<br>3-13 | 3-12<br>3-13 | 2-8<br>2-10 | 3-12<br>3-13 | 3-12<br>3-13 | 3-12<br>3-13 | 3-12<br>3-13 | 3-12<br>3-13 | 3-12<br>3-13 | 3-12<br>3-13 | 3-12<br>3-13 | 3-15 | 2-3 | 1-16 | 3-12<br>3-13 | 3-12<br>3-13 | 3-12<br>3-13 | 3-12<br>3-13 | 4-10<br>4-11 |
| -120<br>-125 | O<br>Br W | 3-15<br>3-16 | 3-16<br>3-17 | 3-16 | 3-16 | 1-14 | | 3-16 | 3-16 | 2-11 | 3-16 | 3-16 | 3-16 | 3-16 | 3-16 | 3-16 | 4-3 | 3-16 | 3-16 | 3-3 | 3-16 | 3-16 | 3-16 | 3-16 | 3-16 | 4-12<br>4-13 |
| -130A<br>-130B | W Bk 18<br>" | 3-17 | 3-15 | 3-11 | 3-11 | | | | | 2-12 | 3-11 | 3-11 | 3-11 | 3-11 | 3-11 | 3-11 | | 3-11 | 1-1 | 2-17 | 2-8 | | | | | 4-14<br>4-15 |
| -130C<br>-140 | "<br>Br W | -<br>3-18 | | | | 3-11 | 3-13 | 3-11 | 3-11 | 2-13 | | | | | | | 4-16 | | | | | 3-11 | 3-11 | 3-11 | 3-11 | 4-16<br>4-17 |
| -150<br>-170 | W Bl 16<br>W R Br | 4-1<br>4-2 | | 2-5 | 2-5 | 2-5 | 3-17 | 2-5 | 2-5 | 2-14 | 2-5 | 2-5 | 2-5 | 2-5 | 2-5 | 2-5 | 5-1 | 2-5 | 2-5 | 3-17 | 3-7 | 3-8 | 2-5 | 2-5 | 2-5 | 2-5 | 4-16<br>5-1 |
| -175<br>-180A | W R 18<br>Br Bk 12 | 4-3<br>- | | | | | 3-11 | | | | | | | | | | | | | 3-18 | 2-18 | 3-9 | | | | | 5-2<br>5-3 |
| -180B<br>-200 | "<br>R W 18 | 4-4<br>4-5 | 3-9 | 3-14<br>3-10 | 3-14<br>3-10 | 3-14<br>3-10 | 2-14<br>3-10 | 3-14<br>3-10 | 3-14<br>3-10 | 2-15<br>2-16 | 3-14<br>3-10 | 3-14<br>3-10 | 3-14<br>3-10 | 3-14<br>3-10 | 3-14<br>3-10 | 3-14<br>3-10 | 5-4<br>5-5 | 3-14<br>3-10 | 3-14<br>3-10 | 1-2 | 3-6 | 2-9 | 3-14<br>3-10 | 3-14<br>3-10 | 3-14<br>3-10 | 3-14<br>3-10 | 5-4<br>5-5 |
| -225<br>-240 | G<br>Z Bl 16 | 4-6<br>4-13 | | 2-15 | 2-15 | 2-15<br>2-16 | 3-9 | 2-15<br>2-16 | 2-15<br>2-16 | 2-17<br>2-18 | 2-15<br>2-16 | 2-15<br>2-16 | 2-15<br>2-16 | 2-15<br>2-16 | 2-15<br>2-16 | 2-15<br>2-16 | | 2-15<br>2-16 | 2-15<br>2-16 | 1-3<br>1-16 | 3-9<br>3-12 | 2-10<br>3-10 | 2-15<br>2-16 | 2-15<br>2-16 | 2-15<br>2-16 | 2-15<br>2-16 | 5-6<br>5-7 |
| -245<br>-265 | W Sl<br>O Bk | 4-14<br>4-15 | 3-6 (NU) | 2-1 | 2-1 | 2-1<br>3-13 | 3-6 | 2-1 | 2-1 | 3-1 | 2-1 | 2-1 | 2-1 | | 2-1 | 2-1 | 5-9 | 2-1 | 3-12<br>2-8 | 3-13 | 3-11 | 2-1 | 2-1 | 2-1 | 2-1 | 5-8<br>5-9 |
| -290<br>-295 | W R 18<br>Br Bk 12 | 4-16<br>4-17 | 2-3 | 2-2 | 2-2 | 2-2 | | 2-2 | 2-2 | 3-3 | 2-2 | 2-2 | 2-2 | | 2-2 | 2-2 | 5-11 | 2-2 | 2-2 | 2-10 | 3-14 | 2-11 | 2-2 | 2-2 | 2-2 | 5-10<br>5-11 |
| -300<br>-315 | W R G<br>Y Bk | 4-18<br>5-1 | 2-4 | | | 2-13 | 3-5 | 2-13 | 2-13 | 3-4 | 2-13 | 2-13 | 2-13 | | 2-13 | 2-13 | | 2-13 | 2-13 | 2-11 | 3-10 | 2-12 | 2-13 | 2-13 | 2-13 | 2-13 | 5-12<br>5-13 |
| -320<br>-325A | W Bk 18<br>W 18 | 5-2 | | | | 2-4<br>2-3 | 3-7<br>3-6 | 2-4<br>2-3 | 2-4<br>2-3 | 3-5<br>3-6 | 2-4<br>2-3 | 2-4<br>2-3 | 2-4<br>2-3 | | 2-4<br>2-3 | 2-4<br>2-3 | 5-14<br>5-15 | 2-4<br>2-3 | 2-4<br>2-3 | 2-12<br>1-7 | 3-15<br>3-11 | 3-12<br>1-7 | 2-4<br>2-5 | 2-4<br>2-5 | 2-4<br>2-5 | 2-4<br>2-5 | 5-14<br>5-15 |
| -325B<br>-350 | W R G<br>" | 5-3 | 2-10 | | | | | | | | | | | | | | | | | | | | | | | 5-16<br>5-17 |
| -360<br>-375 | Br Bk 12<br>O Bk | 5-4<br>5-5 | 2-15 (NU) | | | 1-(17,18)<br>1-13 | | 2-14<br>2-10 | 2-14<br>2-10 | 3-16<br>3-17 | 2-14<br>2-10 | 2-14<br>2-10 | 2-14<br>2-10 | | 2-14<br>2-10 | 2-14<br>2-10 | 5-16<br>5-17 | 2-14<br>2-10 | 1-6 | 3-17/18<br>2-7 | 3-6 | 2-14<br>2-10 | 2-14<br>2-10 | 2-14<br>2-10 | 2-14<br>2-10 | 5-16<br>6-1 |
| -385<br>-400 | W Sl<br>W Bk Br | 5-6<br>5-7 | 3-14 (NU)<br>2-8 | | | 2-17 | | 2-17 | 2-17 | 3-16 | 2-17 | 2-17 | 2-17 | | 2-17 | 2-17 | 6-2 | 2-17 | | 2-8 | | 2-17 | 2-17 | 2-17 | 2-17 | 6-2<br>6-3 |
| -415<br>-425 | W R Br<br>W R O | 5-10<br>5-11 | | | | 2-16<br>2-7 | | 2-16<br>2-7 | 2-16<br>2-17 | 3-14<br>3-13 | 2-16<br>2-7 | 2-16<br>2-7 | 2-16<br>2-7 | | 2-16<br>2-7 | 2-16<br>2-7 | 6-4<br>6-5 | 2-16<br>2-7 | 1-9 | 2-9 | 1-9 | 2-16<br>2-7 | 2-16<br>2-7 | 2-16<br>2-7 | 2-16<br>2-7 | 6-4<br>6-5 |
| -435<br>-450 | W R Br<br>Br Bk 12 | 5-12<br>4-7 | 2-7<br>3-12 | | | 2-12 | | 2-12 | 2-12 | 3-7 | 2-12 | 2-12 | 2-12 | | 2-12 | 2-12 | 6-7 | 2-12 | 1-10 | 2-10 | 1-10 | 2-12 | 2-12 | 2-12 | 2-12 | 6-6<br>6-7 |
| -470<br>-475 | W Sl<br>W Bk 18 | 4-8<br>4-9 | 3-11 | | | 2-11 | | 2-11 | 2-11 | 3-8 | 2-11 | 2-11 | 2-11 | | 2-11 | 2-11 | 6-8 | 2-11 | 1-11 | 2-11 | 1-11 | 2-11 | 2-11 | 2-11 | 2-11 | 6-8<br>6-9 |
| -595<br>-595 | Br Bk 12<br>W R O | 4-10<br>4-11 | 3-10<br>2-11 | | | 1-16, 2-8<br>3-9 | | 2-8 | 2-8 | 3-9<br>3-10 | 2-8 | 2-8 | 2-8 | | 2-8 | 2-8 | 6-10 | 2-8 | 1-12 | 3-16 | 3-12 | 2-8 | 2-8 | 2-8 | 2-8 | 6-10<br>6-11 |
| -620<br>-640 | W Bk Br<br>W Sl | 4-12<br>5-7 | 2-12 | | | 2-9<br>2-10 | (W Bk Br) | | | 3-11<br>3-12 | W R G (No W Bk Br) | | | | | | | | | | | | | | | 6-12<br>6-13 |
| -725<br>-750 | Y R O<br>W Sl | 5-8<br>5-9 | 2-9 | | | 1-11/12<br>1-10 | | | | | | | | | | | | | | | | | | | | 6-14<br>6-15 |
| -815<br>-835 | W 16<br>W R Br | 5-10<br>5-11 | | | | 1-9<br>1-8 | | | | | | | | | | | | | | | | | | | | 6-16<br>6-17 |
| -850<br>-858<br>-860 | W Sl<br>Br Bk 12 | 5-12<br>3-6 | 2-16 | 3-17 | 3-17 | 1-7 | | | | 2-6 | 3-17 | 3-17 | 3-17 | | 3-17 | 3-17 | | 3-17 | 3-14 | | | 3-17 | 3-17 | 3-17 | 3-17 | 6-18<br>4-6<br>4-7 |
| +225A | BK | | | | | | | | | | | | | | | | | | | | | | | | | 1-16 |
| XP Clear | J S B | 6-10 | 2-13 | 2-3 | 2-3 | | | | | | | | | | | | | | | | | | | | | - |
| Init. Cl. | Bk | 6-9 | | 3-6 | 3-6 | 3-6 | | 3-6 | 3-6 | 2-9 | 3-6 | 3-6 | 3-6 | 3-7 | 3-8 | 3-9 | 8-9 | 3-6 | | 2-12 | | 3-6 | 3-6 | 3-6 | 3-6 | 7-9 |
| Printer Prog. | W. R. O | 6-1 | | | | | | | | | | | | | | | | | | | | | | | | 7-1 |
| Printer Start Relay | " | 6-3 | | | | | | | | | | | | | | | | | | | | | | | | 7-3 |
| Reader Reset | " | 6-4 | | | | | | | | | | | | | | | | | | | | | | | | 7-4 |
| Reader Exit-115 | " | 6-5 | | | | | | | | | | | | | | | | | | | | | | | | 7-5 |
| Reader Finish | " | 6-6 | | | | | | | | | | | | | | | | | | | | | | | | 7-6 |
| Reader Run-6 Tr. | " | 6-7 | | | | | | | | | | | | | | | | | | | | | | | | 7-7 |
| Read Co Start Relay | " | 6-8 | | | | | | | | | | | | | | | | | | | | | | | | 7-8 |

N.U.—Not used in Unit

All Wires to be #20 unless otherwise noted.

| Voltage | Wire Color | Pulse Amplifier Sockets Corner 2 * | | Corner 1 ** | |
|---|---|---|---|---|---|
| +225 A | WTR | 1-3 | 2-3 | 1-3 | 2-3 |
| +150 | WRO | 1-4 | 2-4 | 1-4 | 2-4 |
| +110 | WOO | 1-5 | 2-5 | 1-5 | 2-5 |
| +50 | WBRB | 1-6 | 2-6 | 1-6 | 2-6 |
| +20 | WBRBr | 1-7 | 2-7 | 1-7 | 2-7 |
| -130 | WRNO | 1-9 | 2-9 | 1-9 | 2-9 |
| 110 Phase A | #14 A | 1-10 | 2-10 | 1-11 | --- |
| 110 NEUTRAL | #14 R | 1-11 | --- | 1-12 | 2-10 |
| 110 Phase C | #14 B | --- | 2-11 | --- | 2-11 |
| 0--Ground | #14 W | 1-12 | 2-12 | 1-12 | 2-12 |

All D.C. connections from Terminal Blocks in Corner 2. *

* 110 AC for Corner 2 comes from Fuse Block of Acc. 16

** 110 AC for Corner 1 comes to Fuse Block of Acc. 12

SPARES FOR CONVERTER CONNECTED TO BLOCK ON PAN. NO. 2

SPARES TO OUTLETS FOR PULSE AMPLIFIER SOCKETS ON MULT. PANELS 2 & 3 CONNECTED TO DC AT BLOCKS ON MULT. PANEL NO. 2

| | | | |
|---|---|---|---|
| 21 | Summary 1-24-48 | CHANGES REQUIRED FOR NEW PANEL INSERTED. | |
| 11 | Summary | 12-1-45 | SPARES 1, 2, 4, 5 Wire #225, #325, #470 +225B Was +225 +225B Was Part of +275 Line Wiring To Pulse Amplifier Sockets #0050 |

MOORE SCHOOL OF ELECTRICAL ENGINEERING
UNIVERSITY OF PENNSYLVANIA

DC WIRING IN POWER TROUGH

Drawn by: E.G. Oct. 15, 1945

Checked by: E.G. Oct. 24, 1945

PX-19-115B