

RAILROAD PREEMPTION PROGRAMMING DETAIL

(program controller as shown below)

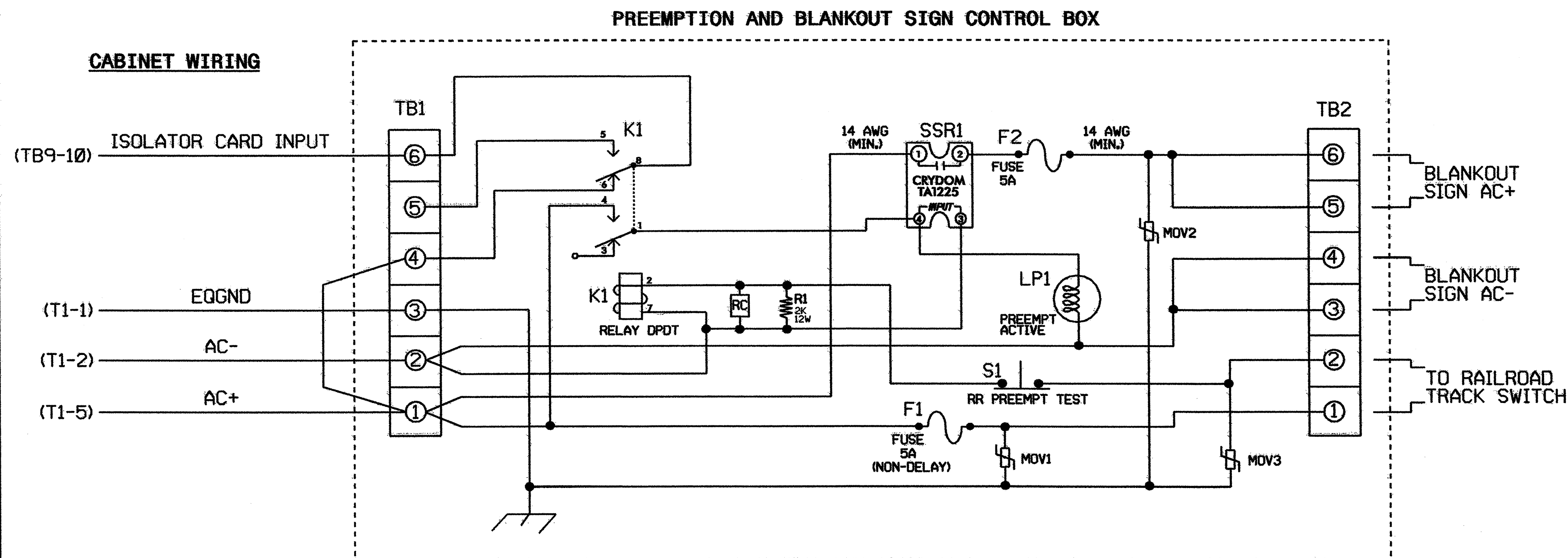
FROM MAIN MENU PRESS 'A' (PREEMPTION), THEN '1' (STANDARD PREEMPTIONS).

| PREEMPTION # | INTERVAL/TIMING | SETTINGS (NEXT:1-10) | CLEAR/DWELL PHASES |
|--------------|-----------------|----------------------|--------------------|
| 1 | 11 4.1 4.0 | X X | X X |
| 2 | 255 0.0 0.0 | X XXX | |
| 3 | 0 0.0 0.0 | | |
| 4 | 0 0.0 0.0 | | |
| 5 | 1 0.0 0.0 | X X | |

| EXIT CALLS | OPTIONS |
|---|------------------|
| PRIORITY (Y/N TO SELECT) | HIGH |
| DELAY TIMER (0-255 SEC) | 0 |
| MIN GREEN BEFORE PRE (0= DEFAULT)... | 1 |
| PED CLEAR BEFORE PRE (0= DEFAULT)... | 0 |
| YELLOW CLEAR BEFORE PRE (0= DEFAULT)... | 0.0 |
| RED CLEAR BEFORE PRE (0= DEFAULT)... | 0.0 |
| DWELL MIN TIMER (0-255 SEC) | 7 |
| DWELL MAX TIMER (0=OFF,1-255MIN) ... | 0 |
| DWELL HOLD-OVER TIMER (0-255) | 0 |
| LATCH CALL? | N |
| LINK TO NEXT PREEMPT? | N |
| ENABLE BACKUP PROTECTION? | N |
| HOLD CLEAR 1 PHASES DURING DELAY? ... | N |
| FAST GREEN FLASH DWELL PHASES? | N |
| PED CLEARANCE THROUGH YELLOW? | N |
| INHIBIT OVERLAP GREEN EXTENSION? ... | N |
| SERVICE DURING SOFTWARE FLASH? | N |
| REST IN RED DURING DWELL INTERVAL? .. | N |
| FLASH DWELL INTERVAL? | N |
| ALLOW PEDS IN DWELL INTERVAL? | N |
| RE-TIME DWELL INTERVAL? | N |
| OVERLAPS: | ABCDEFGHIJKLMNPO |
| DWELL INT FLASH YELLOW | |
| OMIT OVERLAPS: | |

RAILROAD PREEMPTION WIRING DETAIL

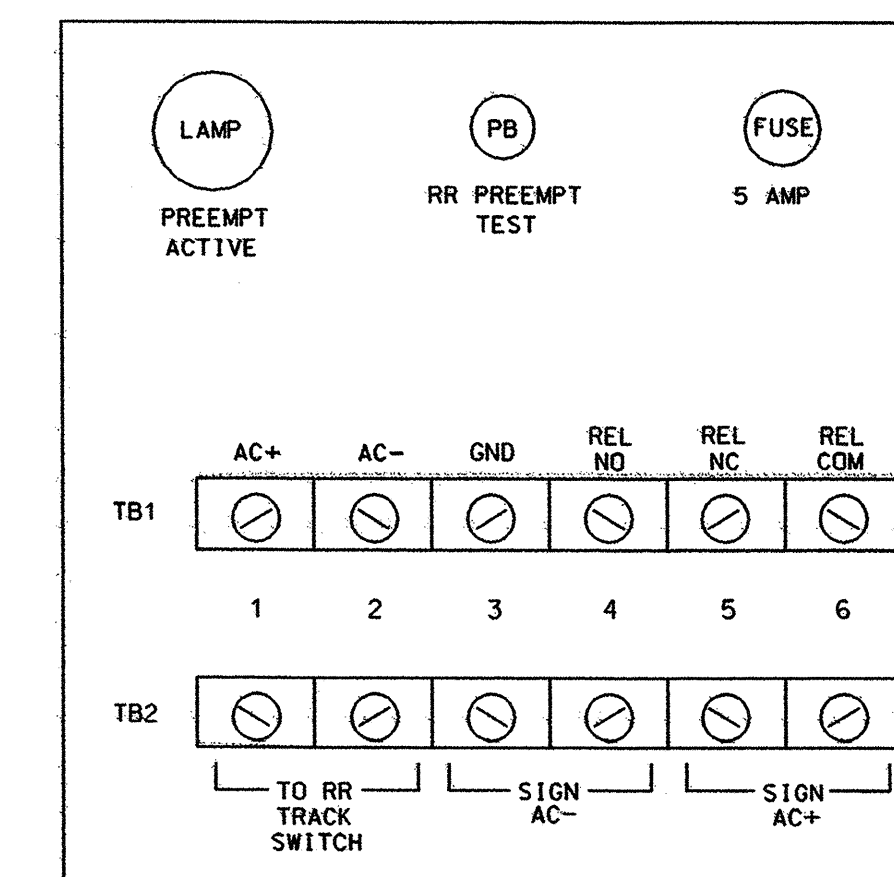
(wire as shown below)



NOTES

- RELAY K1 IS SHOWN IN THE ENERGIZED (PREEMPT NOT ACTIVE) NORMAL OPERATION STATE.
- RELAY K1 IS A DPDT WITH 120VAC COIL. POTTER & BRUMFIELD KRPI1AG WITH OCTAL BASE OR APPROVED EQUIVALENT.
- RELAY SSR1 IS A SPST (NORMALLY OPEN) SOLID STATE RELAY WITH AC INPUT AND AC (25 AMP) OUTPUT. CRYDOM TA1225 OR APPROVED EQUIVALENT.
- AC ISOLATOR CARD SHALL ACTIVATE PREEMPTION UPON REMOVAL OF AC+ FROM THE INPUT (AS SHOWN ABOVE).
- RESISTOR IS VALUED AT 2K OHM, 12 WATT. CLAROSTAT PART NO. VPR10F-2K OR APPROVED EQUIVALENT.
- RC NETWORK IS VALUED AT .1 MICROFARAD, 100 OHM.
- IF REPLACEMENT MOV'S ARE NEEDED, GE PART NO. V150LA20A MAY BE USED.
- PREEMPTION AND BLANKOUT SIGN CONTROL BOX IS A CONTROL TECHNOLOGIES PART NO. 2299-101 OR APPROVED EQUIVALENT.
- IMPORTANT!! A JUMPER MUST BE ADDED BETWEEN INPUT FILE TERMINALS J14-E AND J14-K IF NOT ALREADY PRESENT. ALSO, TERMINAL TB9-12 (ON INPUT PANEL) SHALL BE CONNECTED TO AC NEUTRAL (JUMPER MAY HAVE TO BE ADDED).

FRONT VIEW



THIS ELECTRICAL DETAIL IS FOR THE SIGNAL DESIGN: 12-0016
 DESIGNED: DECEMBER 2004
 SEALED: 1/28/05
 REVISED:

SIGNAL UPGRADE - SHEET 2 OF 2

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|--|---|--|-----------------------------|
| ELECTRICAL AND PROGRAMMING DETAILS FOR Prepared in the Office of: 122 N. McDowell St., Raleigh, NC 27603 | US 321 (YORK ROAD) AT SR 1255 (HUDSON BOULEVARD) | | SEAL GEORGE C. BROWN |
| | DIVISION 12 PLAN DATE: JANUARY 2005 PREPARED BY: WILLIAM HAIRSTON | GASTON COUNTY GASTONIA REVIEWED BY: T. J. J. | |