

**RAILROAD PREEMPTION PROGRAMMING DETAIL**  
(program controller as shown below)

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

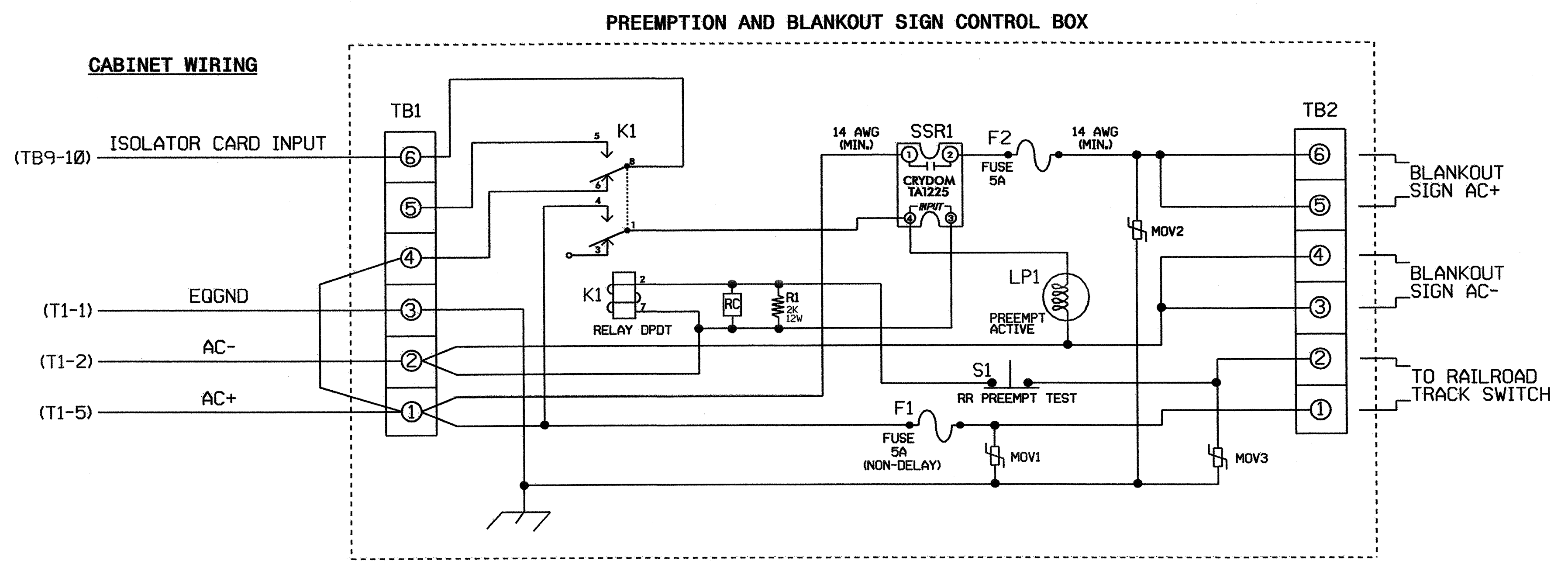
PREEMPTION #1	INTERVAL/TIMING	SETTINGS (NEXT:1-10)	CLEAR/DWELL PHASES
GRN	YEL	RED	12345678910111213141516
1	30	4.0 2.2	X
2	255	0.0 0.0	X X
3	0	0.0 0.0	
4	0	0.0 0.0	
5	1	0.0 0.0	X

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
RED CLEAR BEFORE PRE (0= DEFAULT)...	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:	ABCDEFGHIJKLMNOP
DWELL INT FLASH YELLOW	
OMIT OVERLAPS:	X

**RAILROAD PREEMPTION WIRING DETAIL**

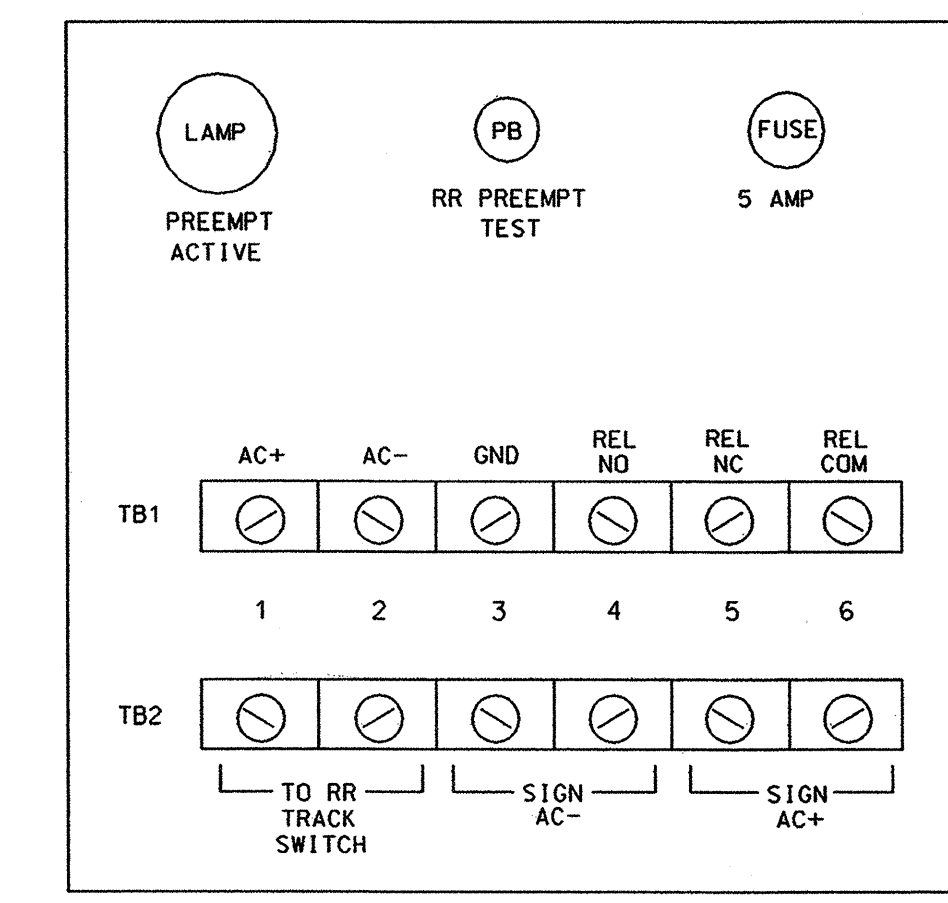
(wire as shown below)



**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: 12-0155  
DESIGNED: February 2005  
SEALED: 3/14/05  
REVISED:

SIGNAL UPGRADE - SHEET 2 OF 2

ELECTRICAL AND PROGRAMMING DETAILS FOR: NC 274 (BESSEMER CITY ROAD) AT SR 1338 (NORTHWEST BLVD.)

Prepared in the Office of:

122 N. McDowell St., Raleigh, NC 27603

DIVISION 12 GASTON COUNTY GASTONIA

PLAN DATE: MARCH 2005 REVIEWED BY: *W. Hairston*

PREPARED BY: WILLIAM HAIRSTON REVIEWED BY:

REVISIONS	INIT.	DATE

SEAL: NORTH CAROLINA PROFESSIONAL ENGINEER SEAL 022013 GEORGE C. BROWN

SIGNATURE: *George C. Brown* DATE: 3/17/05

SIG. INVENTORY NO. 12-0155

15-MAR-2005 11:54  
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