

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

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

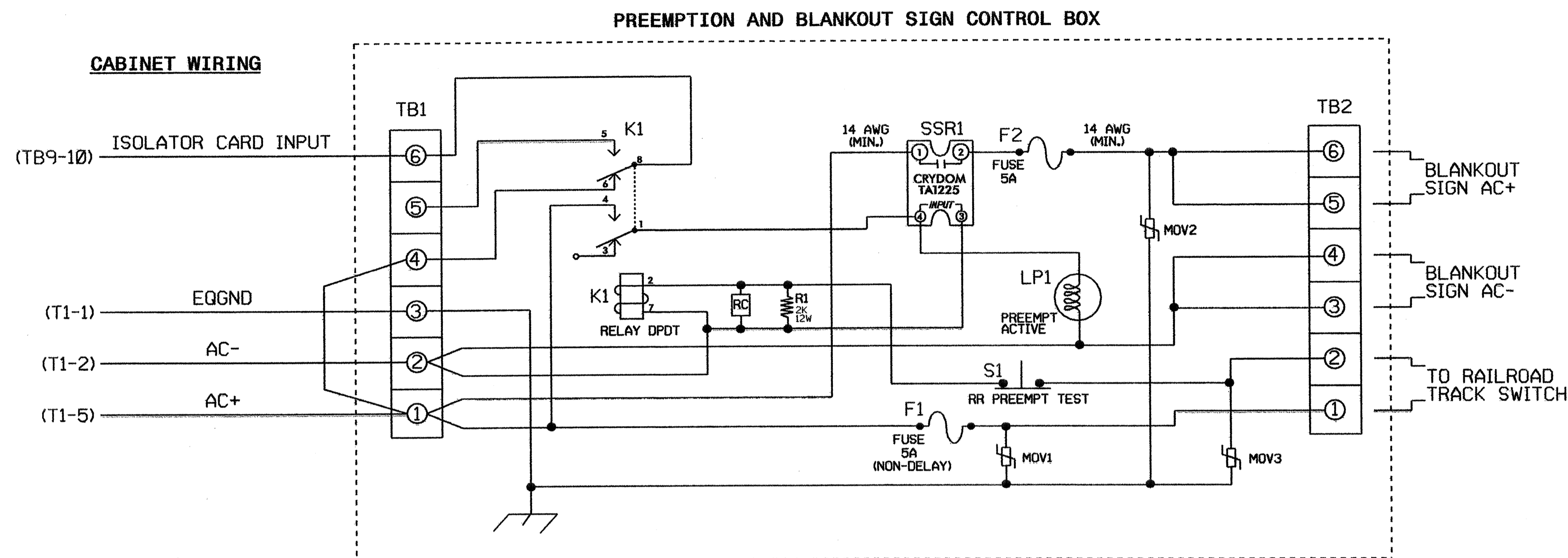
PREEMPTION #1	INTERVAL/TIMING	SETTINGS (NEXT:1-10)	CLEAR/DWELL PHASES
	GRN YEL RED		12345678910111213141516
1	33 4.0 2.0		X
2	255 0.0 0.0		X X
3	0 0.0 0.0		
4	0 0.0 0.0		
5	1 0.0 0.0		X

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)	....4.7
RED CLEAR BEFORE PRE (0= DEFAULT)	....2.0
DWELL MIN TIMER (0-255 SEC)	.....10
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:	ABCDEFGHIJKLMN
DWELL INT FLASH YELLOW	
OMIT OVERLAPS:	

**RAILROAD PREEMPTION WIRING DETAIL**

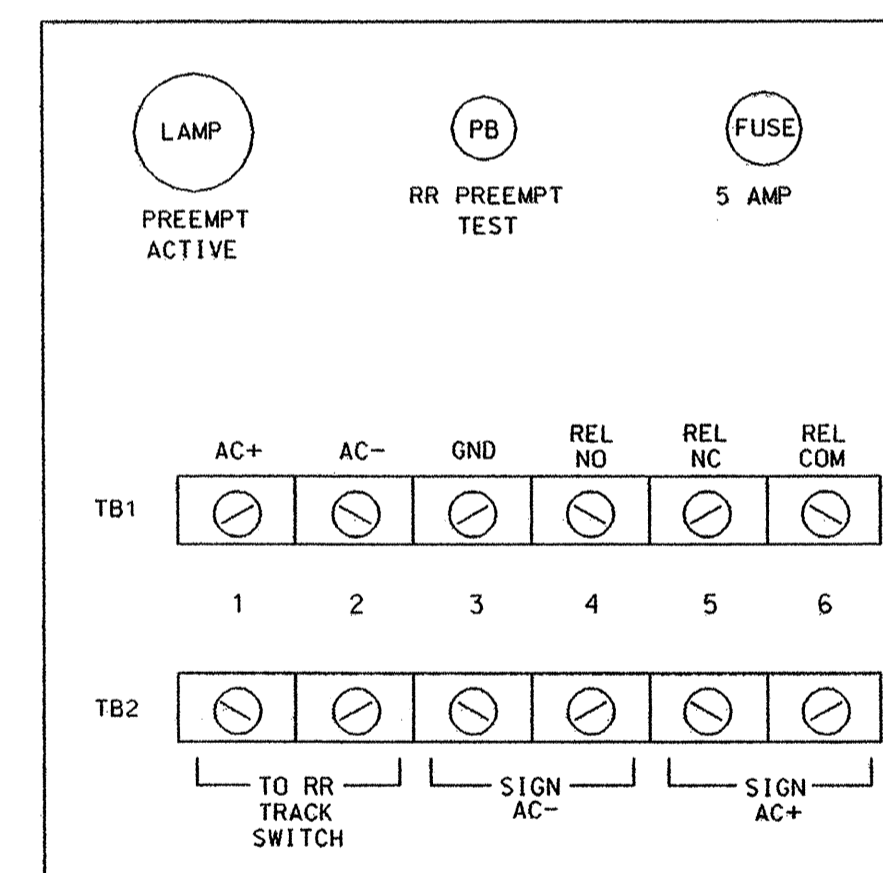
(wire as shown below)



**NOTES**

- RELAY K1 IS SHOWN IN THE ENERGIZED (PREEMPT NOT ACTIVE) NORMAL OPERATION STATE.
- RELAY K1 IS A DPDT WITH 120VAC COIL, POTTER & BRUMFIELD KRP11AG 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 MOVs 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: 12-0155T1  
DESIGNED: 10/30/03  
SEALED: 08/09/04  
REVISED:

**SIGNAL UPGRADE - TEMPORARY DESIGN 1 - SHEET 2 OF 2**

	ELECTRICAL AND PROGRAMMING DETAILS FOR:		<b>NC 274 (BESSEMER CITY ROAD) AT SR 1338 (NORTHWEST BLVD.)</b>		SEAL NORTH CAROLINA PROFESSIONAL ENGINEER 022013 GEORGE C. BRUNN
	PREPARED BY: <b>WILLIAM HAIRSTON</b>	REVIEWED BY: <i>T. Joyce</i>	DIVISION 12	GASTON COUNTY	
PLAN DATE: <b>JULY 2004</b>		REVISIONS		INIT.	DATE
SIGNATURE: <i>George C. Brun</i>		DATE: <i>8/2/04</i>		SIG. INVENTORY NO. 12-0155T1	