

**RAILROAD PREEMPTION WIRING DETAIL**

(wire as shown below)

**RAILROAD PREEMPTION PROGRAMMING DETAIL**

(program controller as shown below)

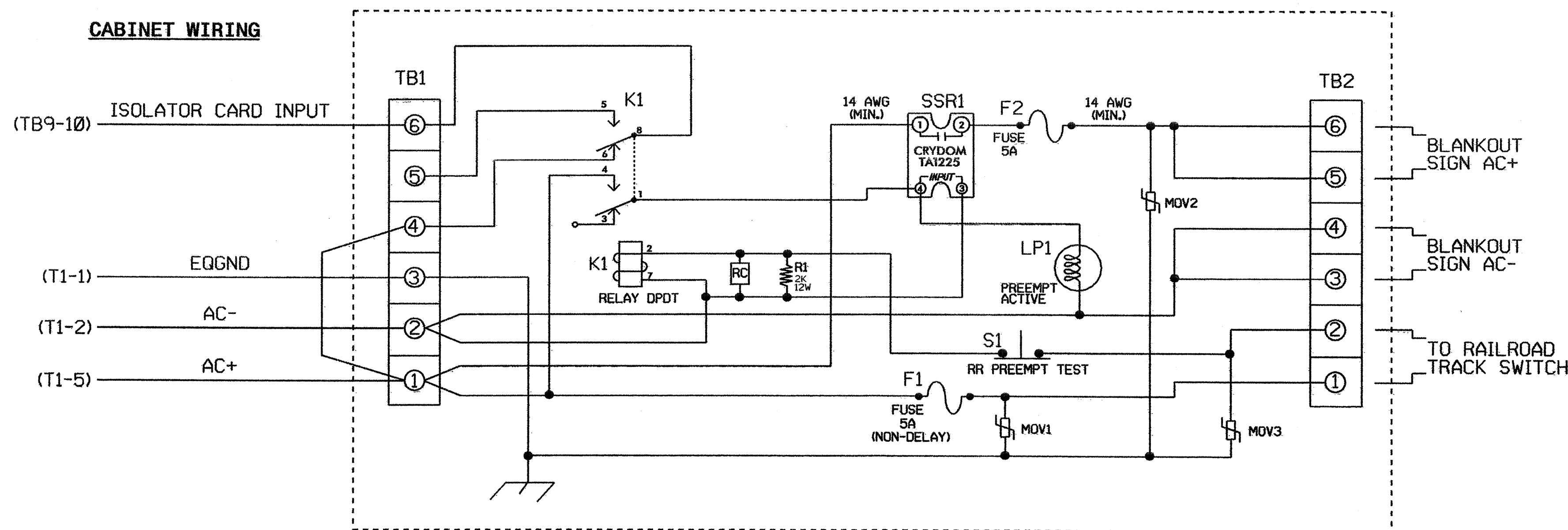
FROM MAIN MENU PRESS 'A' (PREEMPTION), THEN '1' (STANDARD PREEMPTIONS).

PREEMPTION #1	SETTINGS (NEXT:1-10)
INTERVAL/TIMING	CLEAR/DWELL PHASES
GRN YEL RED	12345678910111213141516
1 30 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:	ABCDEFGHIJKLMNQP
DWELL INT FLASH YELLOW	
OMIT OVERLAPS:	X

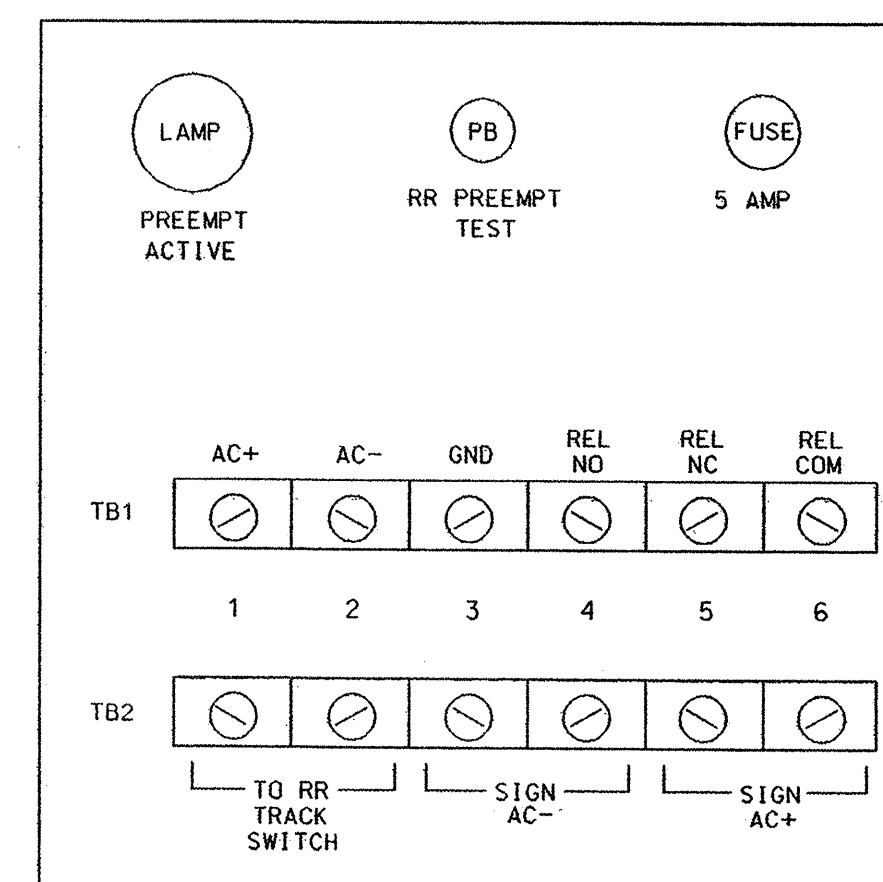
**CABINET WIRING**



**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 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: 10/30/03  
 SEALED: 08/09/04  
 REVISED:

**SIGNAL UPGRADE - FINAL DESIGN - SHEET 2 OF 2**

ELECTRICAL AND PROGRAMMING DETAILS FOR: Prepared in the Offices of:  122 N. McDowell St., Raleigh, NC 27603	<b>NC 274 (BESSEMER CITY ROAD) AT SR 1338 (NORTHWEST BLVD.)</b>		SEAL NORTH CAROLINA PROFESSIONAL ENGINEER SEAL 022013 GEORGE C. BROWN
	DIVISION 12 PLAN DATE: JULY 2004 PREPARED BY: WILLIAM HAIRSTON	GASTON COUNTY REVIEWED BY: T. J. Smith REVIEWED BY:	
REVISIONS			SIGNATURE: <i>George C. Brown</i> DATE: