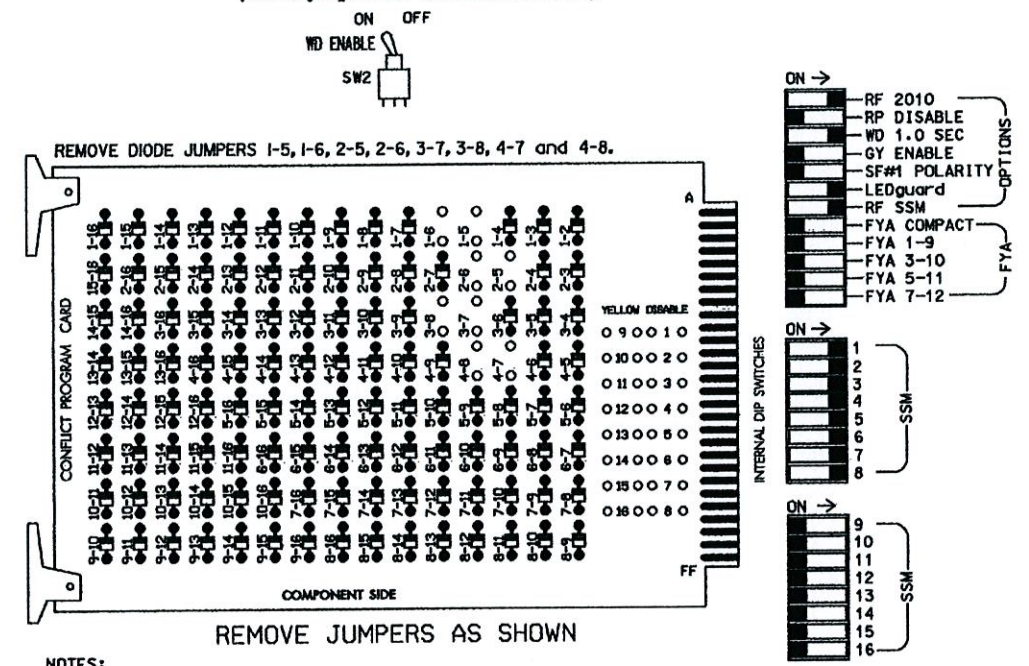


EDI MODEL 2010ECL-NC CONFLICT MONITOR

PROGRAMMING DETAIL

(remove jumpers and set switches as shown)



NOTES:

- 1. Card is provided with all diode jumpers in place. Removal of any jumper allows its channels to run concurrently.
- 2. Make sure jumpers SEL2-SEL5 are present on the monitor board.

NOTES

1. To prevent "flash-conflict" problems, insert red flash program blocks for all unused vehicle load switches in the output file. The installer shall verify that signal heads flash in accordance with the Signal Plans.
2. Ensure that Red Enable is active at all times during normal operation. To prevent Red Failures on unused monitor channels, tie unused red monitor inputs 9,10,11,12,13,14,15 & 16 to load switch AC+ per the cabinet manufacturer's instructions.
3. Program phases 2 and 6, on the controller unit, for Start Up In Green.
4. Enable Simultaneous Gap-Out, on the controller unit, for all phases.
5. Program phase 8, on the controller unit, for Dual Entry.
6. Program phases 2 and 6, on the controller unit, for Variable Initial and Gap Reduction.
7. The cabinet and controller are part of the Wilmington Signal System.

EQUIPMENT INFORMATION

CONTROLLER.....CONTRACTOR SUPPLIED 2070L
CABINET.....CONTRACTOR SUPPLIED 332
SOFTWARE.....ECONOLITE OASIS
CABINET MOUNT.....BASE
OUTPUT FILE POSITIONS...12
LOAD SWITCHES USED.....S1,S2,S3,S4,S5,S6,S7,S8
PHASES USED.....1,2,3,4,5,6,7,8
OVERLAPS.....NONE

SIGNAL HEAD HOOK-UP CHART

LOAD SWITCH NO.	S1	S2	S2P	S3		S4	S4P	S5		S6	S6P	S7	S8	S8P
PHASE	1	2	2 PED	3		4	4 PED	5		6	6 PED	7	8	8 PED
SIGNAL HEAD NO.	61,82	21,22	NU	22	31,32	41,42	NU	42	51	61, 62,63	NU	41	81,82	NU
RED	*	128				101				134		*	107	
YELLOW		129				102				135			108	
GREEN		130				103				136			109	
RED ARROW					116				131					
YELLOW ARROW	126			117	117			132	132			123		
GREEN ARROW	127			118	118			133	133			124		

NU = Not Used

* Denotes install load resistor. See load resistor installation detail this sheet.

BACKUP PROTECTION NOTE

(program controller as shown below)

From Main Menu press '2' (Phase Control), then '1' (Phase Control Functions). Program phase 2 for 'Backup Protect'. Make sure the Red Revert times shown on the Signal Design Plans are programmed in the 'Phase Timing' menu.

INPUT FILE POSITION LAYOUT

(front view)

	1	2	3	4	5	6	7	8	9	10	11	12	13	14
FILE "I"	1A	1B	2A	2B	3A	3B	4A	4B	SYS. DET. S1	SYS. DET. S2	SYS. DET. S3	SYS. DET. S4	SYS. DET. S5	FS
FILE "J"	5A	5B	6A	6B	7A	7B	8A	8B	SYS. DET. S1	SYS. DET. S2	SYS. DET. S3	SYS. DET. S4	SYS. DET. S5	FS

EX.: 1A, 2A, ETC. = LOOP NO.'S

FS = FLASH SENSE
ST = STOP TIME

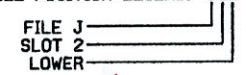
DO NOT POPULATE WIRED INPUT SLOT W/ DETECTOR CARD

INPUT FILE CONNECTION & PROGRAMMING CHART

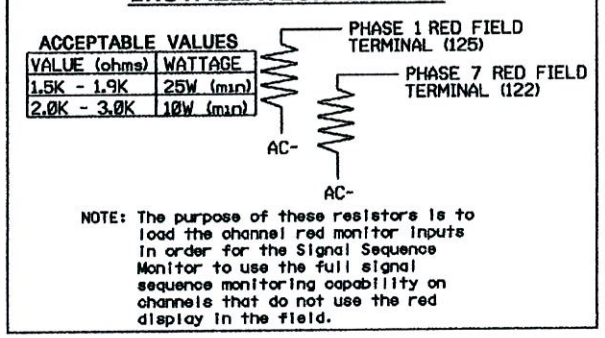
LOOP NO.	LOOP TERMINAL	INPUT FILE POS.	PIN NO.	INPUT ASSIGNMENT NO.	DETECTOR NO.	NEMA PHASE	CALL	EXTEND	FULL TIME DELAY	STRETCH TIME	DELAY TIME
1B	TB2-125	125	56	39	18	1	Y	Y			15
1A	TB2-56	56	39	56	18	2	Y	Y			15
2A	TB2-910	910	63	25	32	2	Y	Y			3
2B	TB2-1112	1112	76	38	42	2	Y	Y			
3A	TB4-910	910	41	3	4	3	Y	Y			3
3B	TB4-1112	1112	48	7	14	3	Y	Y			
4A	TB6-12	12	65	27	34	4	Y	Y			
* S1	TB6-910	910	60	22	11	SYS					
* S2	TB8-1112	1112	62	24	13	SYS					
5A	TB3-56	56	40	2	6	5	Y	Y			
5B	TB3-78	78	44	6	16	5	Y	Y			15
6A	TB3-910	910	64	26	36	6	Y	Y			
6B	TB3-1112	1112	77	39	46	6	Y	Y			
6C	TB5-12	12	48	10	26	6	Y	Y			
7A	TB5-910	910	42	7	14	7	Y	Y			10
* S3	TB7-56	56	50	12	26	SYS					
* S4	TB7-910	910	59	21	15	SYS					
* S5	TB7-1112	1112	61	23	17	SYS					

* Add jumpers from TB2-5 to TB2-7, and from TB2-6 to TB2-8
* Add jumpers from TB5-9 to TB5-14, and from TB5-10 to TB5-12
* SYSTEM DETECTOR ONLY. REMOVE THE VEHICLE PHASE ASSIGNED TO THIS DETECTOR IN THE DEFAULT PROGRAMMING.

INPUT FILE POSITION LEGEND: J2L



LOAD RESISTOR INSTALLATION DETAIL



DYNAMIC BACK-UP CONTROL PROGRAMMING

(program controller as shown below)

1. From Main Menu press '2' (Phase Control), then '1' (Phase Control Functions). Scroll to the bottom of the menu and enable Dynamic/Backup Control Function 1.
2. From Phase Control Functions Menu press '2' (Dynamic/Backup Control Functions).

DYNAMIC/BACKUP CONTROL FUNCTION #01
OVERLAPS: ABCDEFGHIJKLMNOP
IF OVERLAPS ARE ACTIVE: X
OR PHASES: 12345678910111213141516
IF PHASES ARE ON: X
OMIT PHASES: X
CALL PHASES: X

BACKUP PROTECTION PROGRAMMING COMPLETE

THIS ELECTRICAL DETAIL IS FOR THE SIGNAL DESIGN: 03-0049
DESIGNED: March 2007
SEALED: 04-21-08
REVISED: N/A

Signal Upgrade

Electrical and Programming Details For: US 17 Bus. (Market Street) at SR 1175 (Kerr Avenue)

Division 3 New Hanover County Wilmington

PLAN DATE: April 2008 REVIEWED BY: JTR

PREPARED BY: James Peterson REVIEWED BY:

REVISIONS: IMT. DATE

750 N. Greenfield Pkwy, Greensboro, NC 27409

US 17 Bus. (Market Street) at SR 1175 (Kerr Avenue)

Division 3 New Hanover County Wilmington

PLAN DATE: April 2008 REVIEWED BY: JTR

PREPARED BY: James Peterson REVIEWED BY:

REVISIONS: IMT. DATE

750 N. Greenfield Pkwy, Greensboro, NC 27409

SEAL

North Carolina Professional Engineer

SEAL 008453

John T. Rowe, Jr.

DATE: 4/24/08

316. INVENTORY NO. 03-0049