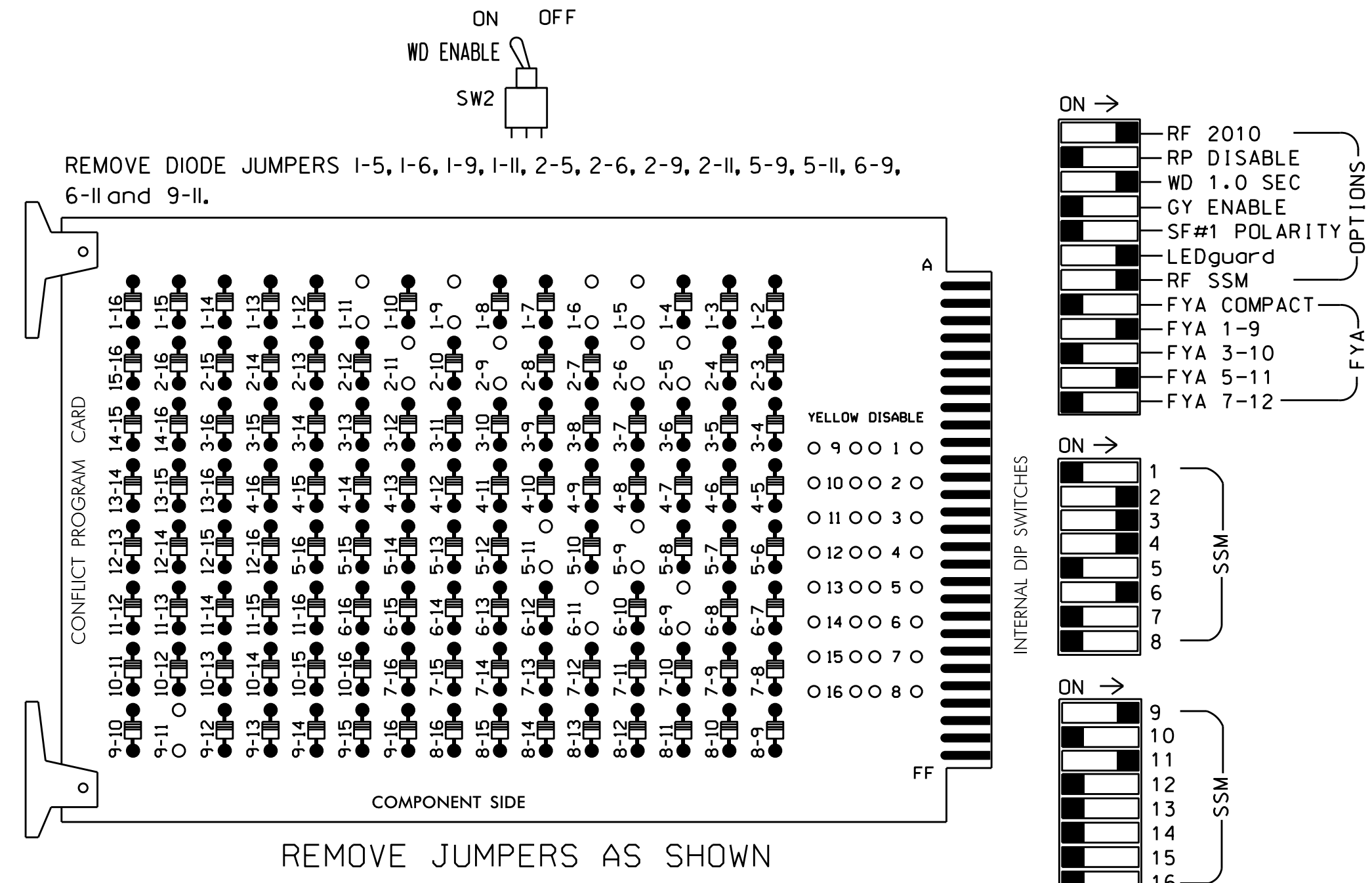


**EDI MODEL 2010ECL-NC CONFLICT MONITOR PROGRAMMING DETAIL**

(remove jumpers and set switches as shown)



NOTES:

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

**NOTES**

- 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.
- 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 1,5, 7,8,10,12,13,14,15 & 16 to load switch AC+ per the cabinet manufacturer's instructions.
- Enable Simultaneous Gap-Out for all phases.
- Program phases 2 and 6 for Variable Initial and Gap Reduction.
- Program phases 2 and 6 for Start Up In Green.
- Program phases 2 and 6 for Yellow Flash, and overlap 1 as Wag Overlaps.
- The cabinet and controller are part of the Concord/ Kanapolis Closed Loop System Zone 2.

**SIGNAL HEAD HOOK-UP CHART**

LOAD SWITCH NO.	S1	S2	S2P	S3	S4	S4P	S5	S6	S6P	S7	S8	S8P	S9	S10	S11	S12	S13	S14
PHASE	1	2	2 PED	3	4	4 PED	5	6	6 PED	7	8	8 PED	OLA	OLB	SPARE	OLC	OLD	SPARE
SIGNAL HEAD NO.	11*	21,22	NU	31 32	41,42 43,44	62	51*	61,62	NU	NU	NU	NU	11*	NU	NU	51*	NU	NU
RED		128		116 116	101			134										
YELLOW	*	129		117 117	102		*	135										
GREEN		130		118 118	103			136										
RED ARROW					101								A121				A114	
YELLOW ARROW					102	102							A122				A115	
FLASHING YELLOW ARROW													A123				A116	
GREEN ARROW	127			118	103	103	133											

NU = Not Used  
\* Denotes install load resistor. See load resistor installation detail this sheet.  
\* See pictorial of head wiring in detail below.

**EQUIPMENT INFORMATION**

CONTROLLER.....2070L  
CABINET.....332 /W/ AUX  
SOFTWARE.....ECONOLITE OASIS  
CABINET MOUNT.....BASE  
OUTPUT FILE POSITIONS...18 WITH AUX. OUTPUT FILE  
LOAD SWITCHES USED.....S1,S2,S3,S4,S5,S6,S9,S12  
PHASES USED.....1,2,3,4,5,6  
OVERLAP "A".....1+2  
OVERLAP "B".....NOT USED  
OVERLAP "C".....5+6  
OVERLAP "D".....NOT USED

**INPUT FILE POSITION LAYOUT**

(front view)

FILE "I"	1	2	3	4	5	6	7	8	9	10	11	12	13	14
U	∅ 1	∅ 2	∅ 3	∅ 3	∅ 4	∅ 4	∅ 4	∅ 4	∅ 4	∅ 4	∅ 4	∅ 4	∅ 4	∅ 4
L	NOT USED	2A	3A	3B	4A	4C	4B	4D	4B	4D	4B	4D	4B	4D
U	∅ 5	∅ 6	∅ 6	∅ 6	∅ 6	∅ 6	∅ 6	∅ 6	∅ 6	∅ 6	∅ 6	∅ 6	∅ 6	∅ 6
L	NOT USED	5A	6A	6B	6A	6B	6A	6B	6A	6B	6A	6B	6A	6B

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

FS = FLASH SENSE  
ST = STOP TIME

⊗ Wired Input - Do not populate slot with detector card

Note: Install a model 242 DC isolator in slot 19 for use with a microwave detector. See the Microwave Detector Wiring Details on sheet 3.

**IMPORTANT:** For proper operation of the microwave detector, remove surge protection from the following terminals:  
TB6-9, TB6-10, TB6-11 and TB6-12

**INPUT FILE CONNECTION & PROGRAMMING CHART**

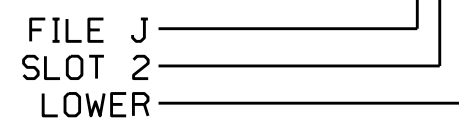
LOOP NO.	LOOP TERMINAL	INPUT FILE POS.	PIN NO.	INPUT ASSIGNMENT NO.	DETECTOR NO.	NEMA PHASE	CALL	EXTEND	FULL TIME DELAY	STRETCH TIME	DELAY TIME
1A <sup>1</sup>	TB2-1,2	I1U	56	18	1	1	Y	Y			15
	-	J4U	48	10	26	6	Y	Y	Y		3
2A	TB2-5,6	I2U	39	1	2	2	Y	Y			
2B	TB2-7,8	I2L	43	5	12	2	Y	Y			
3A	TB2-9,10	I3U	63	25	32	3	Y	Y			3
3B	TB2-11,12	I3L	76	38	42	3	Y	Y			10
4A	TB4-9,10	I6U	41	3	4	4	Y	Y			3
4B	TB4-11,12	I6L	45	7	14	4	Y	Y			3
4C	TB6-1,2	I7U	65	27	34	4	Y	Y			10
4D	TB6-3,4	I7L	78	40	44	4	Y	Y			15
5A <sup>2</sup>	TB3-1,2	J1U	55	17	5	5	Y	Y			15
	-	I4U	47	9	22	2	Y	Y	Y		3
6A	TB3-5,6	J2U	40	2	6	6	Y	Y			
6B	TB3-7,8	J2L	44	6	16	6	Y	Y			
** S15	TB6-9,10	I9U	60	22	11	SYS					

<sup>1</sup>Add jumper from I1-W to J4-W, on rear of input file.  
<sup>2</sup>Add jumper from J1-W to I4-W, on rear of input file.

\*\*Microwave detector - see wiring details on sheet 3.

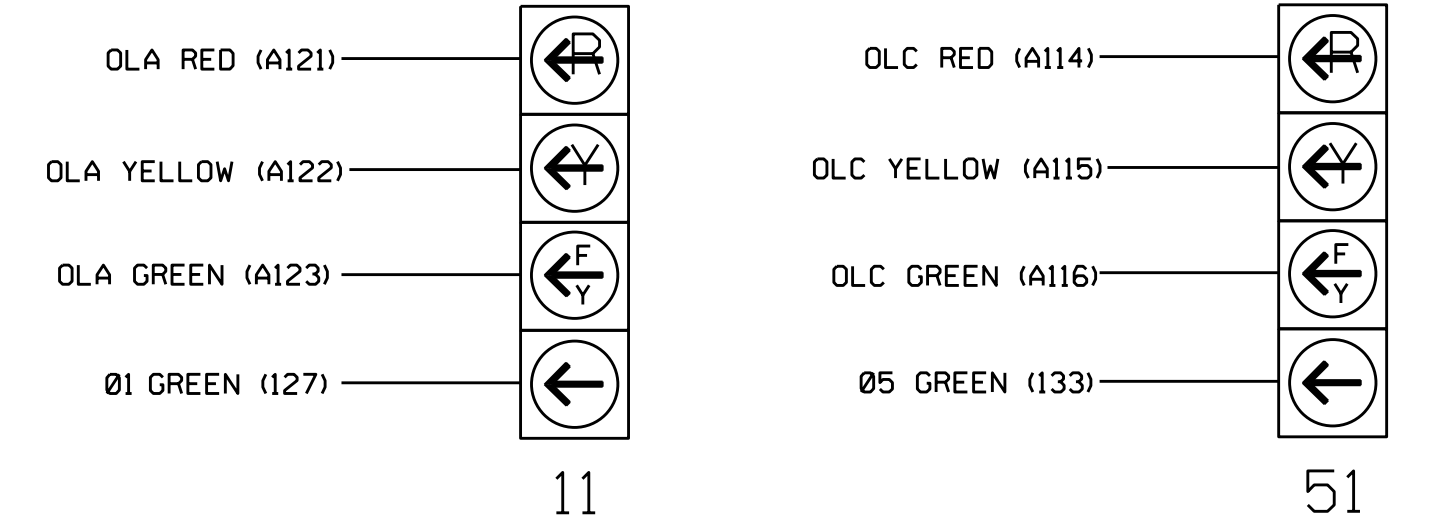
\* System detector only. Remove the vehicle phase assigned to this detector in the default programming.

INPUT FILE POSITION LEGEND: J2L



**4 SECTION FYA PPLT SIGNAL WIRING DETAIL**

(wire signal heads as shown)

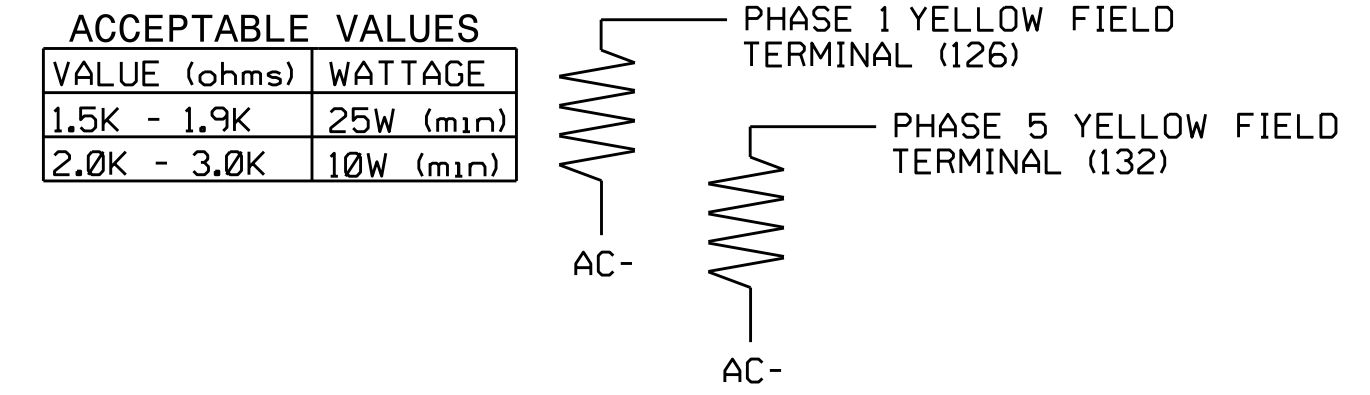


NOTE

1. The sequence display for this signal requires special logic programming. See sheet 2 for programming instructions.

**LOAD RESISTOR INSTALLATION DETAIL**

(install resistors as shown below)



THIS ELECTRICAL DETAIL IS FOR THE SIGNAL DESIGN: 10-0820 T1  
DESIGNED: November 2014  
SEALED: 12-15-14  
REVISED: N/A

ELECTRICAL DETAIL SHEET 1 OF 3

Prepared In the Offices of:

750 N. Greenfield Pkwy, Garner, NC 27529

US 29-601 / US 29-601-NC 73 (Concord Parkway North) at NC 73 (Davidson Parkway) / Florence Street

Division 10 Cabarrus County on Concord

PLAN DATE: December 2014 REVIEWED BY: JTR

PREPARED BY: James Peterson REVIEWED BY:

REVISIONS INIT. DATE

DocuSigned by: John T. Rowe, Jr. 12/18/2014

SIG. INVENTORY NO. 10-0820 T1

18-DEC-2014 09:12 S:\TCS\115\_Sigma\work\gpc\sig\_Mar\ Peterson\100820\_sme.e\_20110128.dgn J Peterson