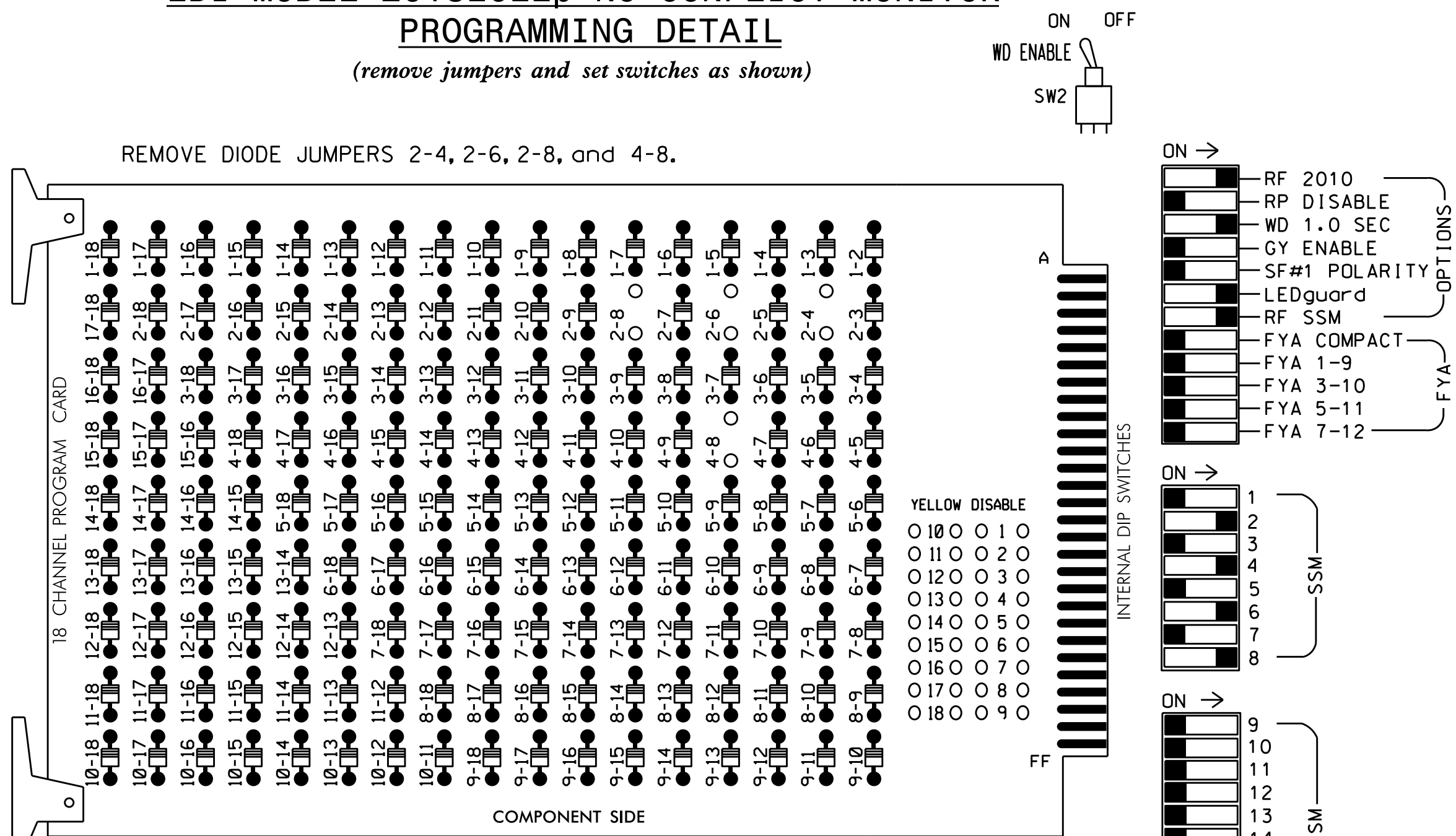


**EDI MODEL 2018EClip-NC CONFLICT MONITOR**

**PROGRAMMING DETAIL**

(remove jumpers and set switches as shown)



REMOVE DIODE JUMPERS 2-4, 2-6, 2-8, and 4-8.

REMOVE JUMPERS AS SHOWN

**NOTES:**

- Card is provided with all diode jumpers in place. Removal of any jumper allows its channels to run concurrently.
- Ensure jumpers SEL2-SEL5 and SEL9 are present on the monitor board.
- Ensure that Red Enable is active at all times during normal operation.
- Integrate monitor with Ethernet network in cabinet.

■ = DENOTES POSITION OF SWITCH

**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.
- Program phases 4 and 8 for Dual Entry.
- Enable Simultaneous Gap-Out for all phases.
- Program phase 6 for volume density operation.
- Program controller to start up in phase 6 Green.
- The cabinet and controller are part of the Fayetteville Signal System.

**EQUIPMENT INFORMATION**

CONTROLLER.....2070E  
 CABINET.....332  
 SOFTWARE.....ECONOLITE ASC/3-2070  
 CABINET MOUNT.....BASE  
 OUTPUT FILE POSITIONS...12  
 LOAD SWITCHES USED.....S2,S5,S8,S11  
 PHASES USED.....4,6,8  
 OVERLAP A.....NOT USED  
 OVERLAP B.....NOT USED  
 OVERLAP C.....NOT USED  
 OVERLAP D.....NOT USED  
 OVERLAP E.....4+6+8

**SIGNAL HEAD HOOK-UP CHART**

LOAD SWITCH NO.	S1	S2	S3	S4	S5	S6	S7	S8	S9	S10	S11	S12
CMU CHANNEL NO.	1	2	13	3	4	14	5	6	15	7	8	16
PHASE	1	OLE	2 PED	3	4	4 PED	5	6	6 PED	7	8	8 PED
SIGNAL HEAD NO.	NU	21,22	NU	NU	41,42	NU	NU	61,62	NU	NU	81,82	NU
RED		128			101			134			107	
YELLOW		129			102			135			108	
GREEN		130			103			136			109	
RED ARROW												
YELLOW ARROW												
GREEN ARROW												

NU = Not Used

**ECONOLITE ASC/3-2070 OVERLAP PROGRAMMING DETAIL**

(program controller as shown)

- From Main Menu select **2. CONTROLLER**
- From CONTROLLER Submenu select **2. VEHICLE OVERLAPS**

Toggle to advance to overlap E

**OVERLAP E**

Select TMG VEH OVLP [E] and 'NORMAL'

TMG VEH OVLP...[E] TYPE: .....**NORMAL**  
 PHASES 1 2 3 4 5 6 7 8 9 0 1 2 3 4 5 6  
 INCLUDED . . . X . X . X . . . . .  
 LAG GRN 0.0 YEL 0.0 RED 0.0

END PROGRAMMING

**INPUT FILE POSITION LAYOUT**

(front view)

FILE	U	1	2	3	4	5	6	7	8	9	10	11	12	13	14
FILE I	U	∅ 4	∅ 4	∅ 4	∅ 4	∅ 4	∅ 4	∅ 4	∅ 4	∅ 4	∅ 4	∅ 4	∅ 4	∅ 4	FS
		4A	4A	4A	4A	4A	4A	4A	4A	4A	4A	4A	4A	4A	DC ISOLATOR
FILE J	L	∅ 4	∅ 4	∅ 4	∅ 4	∅ 4	∅ 4	∅ 4	∅ 4	∅ 4	∅ 4	∅ 4	∅ 4	∅ 4	ST
		4B	4B	4B	4B	4B	4B	4B	4B	4B	4B	4B	4B	4B	DC ISOLATOR
FILE U	L	∅ 6	∅ 6	∅ 6	∅ 6	∅ 6	∅ 6	∅ 6	∅ 6	∅ 6	∅ 6	∅ 6	∅ 6	∅ 6	∅ 6
		6A	6A	6A	6A	6A	6A	6A	6A	6A	6A	6A	6A	6A	6A
FILE J	L	∅ 6	∅ 6	∅ 6	∅ 6	∅ 6	∅ 6	∅ 6	∅ 6	∅ 6	∅ 6	∅ 6	∅ 6	∅ 6	∅ 6
		6B	6B	6B	6B	6B	6B	6B	6B	6B	6B	6B	6B	6B	6B

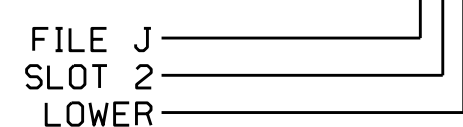
EX.: 1A, 2A, ETC. = LOOP NO.'S

FS = FLASH SENSE  
 ST = STOP TIME

**INPUT FILE CONNECTION & PROGRAMMING CHART**

LOOP NO.	LOOP TERMINAL	INPUT FILE POS.	PIN NO.	DETECTOR NO.	NEMA PHASE	CALL	EXTEND TIME	DELAY TIME	DETECTOR TYPE
4A	TB4-9,10	I6U	41	4	4	YES			S
4B	TB4-11,12	I6L	45	14	4	YES			S
6A	TB3-5,6	J2U	40	6	6	YES			N
6B	TB3-7,8	J2L	44	16	6	YES			N
8A	TB5-9,10	J6U	42	8	8	YES			S
8B	TB5-11,12	J6L	46	18	8	YES			S

INPUT FILE POSITION LEGEND: J2L



**ECONOLITE ASC/3-2070 LOAD SWITCH ASSIGNMENT DETAIL**

(program controller as shown)

To assign load switch S2 as OLE, program LD SWITCH 2 as OVLP '5' TYPE '0'.

- From Main Menu select **1. CONFIGURATION**
- From CONFIGURATION Submenu select **3. LOAD SW ASSIGN**

LD SWITCH ASSIGN

LD SWITCH	PHASE /OVLP	DIMMING TYPE	---FLASH---	R	Y	G	D	PWR	AUT	TGR
1	1	V	. . . +	A	R	X				
2	5	O	. . . +	A	Y	.				
3	3	V	. . . +	A	R	X				
4	4	V	. . . +	A	R	.				
5	5	V	. . . -	A	R	.				
6	6	V	. . . -	A	Y	X				
7	7	V	. . . -	A	R	.				
8	8	V	. . . -	A	R	X				
9	1	O	. . . +	A	R	X				
10	2	O	. . . +	A	R	X				
11	3	O	. . . -	A	R	.				
12	4	O	. . . -	A	R	.				
13	2	P	. . . +	A	.	.				
14	4	P	. . . -	A	.	.				
15	6	P	. . . +	A	.	.				
16	8	P	. . . -	A	.	.				

THIS ELECTRICAL DETAIL IS FOR THE SIGNAL DESIGN: 06-0336  
 DESIGNED: July 2016  
 SEALED: 10/17/2016  
 REVISED: N/A

Electrical Detail

DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED

Prepared In the Offices of:  
 TRANSPORTATION MOBILITY AND SAFETY  
 NORTH CAROLINA DEPARTMENT OF TRANSPORTATION  
 Signal Management Section  
 750 N. Greenfield Pkwy, Garner, NC 27529

I-95 Bus-US 301 (S Eastern Blvd) / Gillespie Street at SR 2311 (Gillespie Street)

Division 6 Cumberland County Fayetteville

PLAN DATE: October 2016 REVIEWED BY: BAS

PREPARED BY: S. Armstrong REVIEWED BY:

REVISIONS INIT. DATE

Sealed by: Keith M. Mims 10/19/2016  
 2F8078E8C03445 DATE

SIG. INVENTORY NO. 06-0336

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