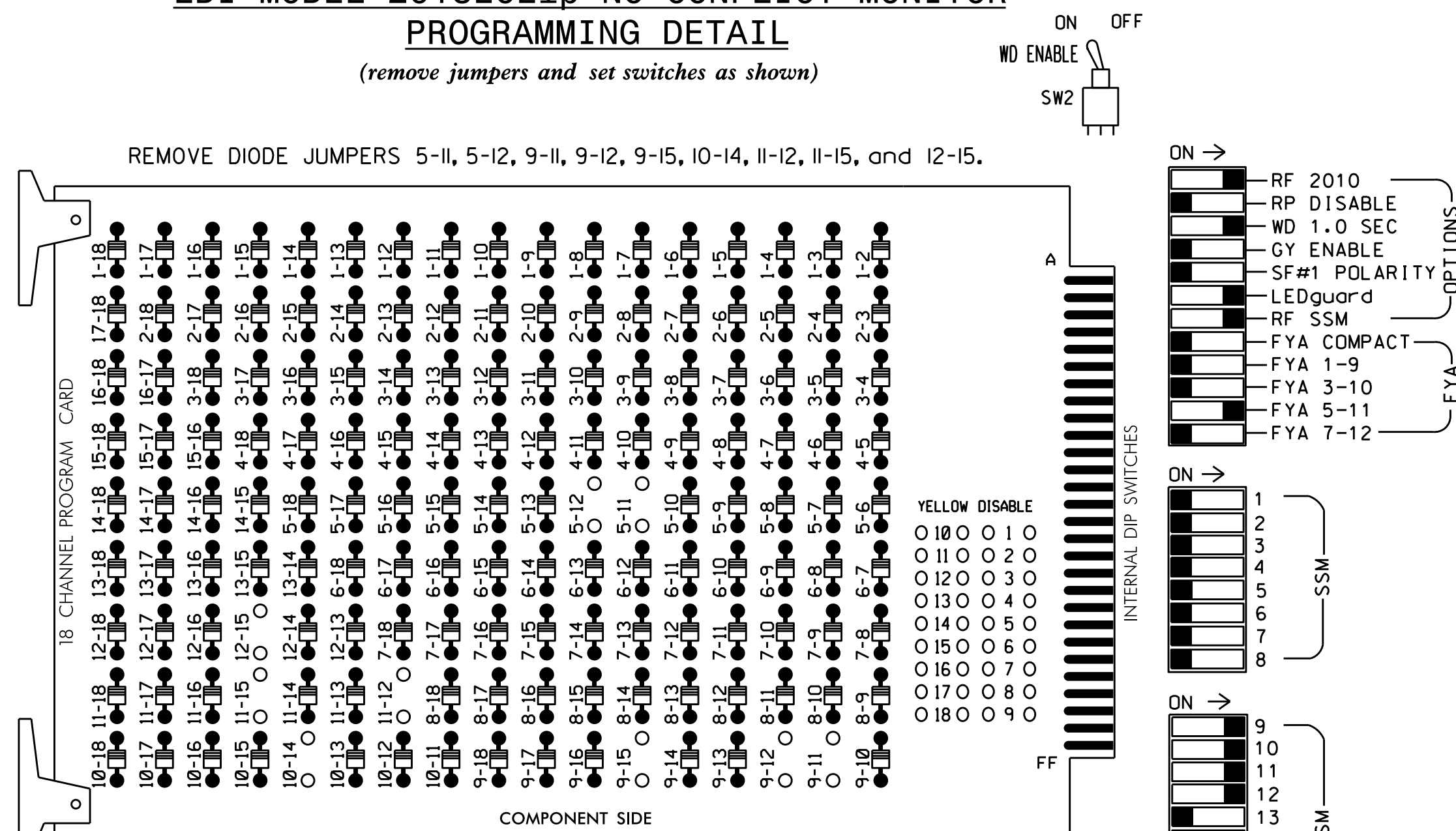


EDI MODEL 2018ECLIP-NC CONFLICT MONITOR

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.
- 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.

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 10 and 14 for Dual Entry.
- Enable Simultaneous Gap-Out for all phases.
- Program phases 2, 6, 10, and 14 for Variable Initial and Gap Reduction.
- Program phases 2 and 6 for Start Up In Green.
- Program phases 4 and 6 for 'STARTUP PED CALL'.
- Program overlaps 1 and 2 as wag overlaps.
- The cabinet and controller are part of the Asheville Signal System.

EQUIPMENT INFORMATION

CONTROLLER.....2070E
 CABINET.....332 W/ AUX
 SOFTWARE.....ECONOLITE OASIS
 CABINET MOUNT.....BASE
 OUTPUT FILE POSITIONS...18 WITH AUX. OUTPUT FILE
 LOAD SWITCHES USED.....S6,S7,S9,AUX S1,AUX S2,
 AUX S4,AUX S5
 PHASES USED.....2,4,4PED,5,6,6PED,10*,12*,
 12PED*,14*,14PED*
 OVERLAP "A".....6+14
 OVERLAP "B".....4+12
 OVERLAP "C".....5+6+14
 OVERLAP "D".....2+10
 POL "A".....4+12
 POL "B".....6+14

* Phase used during alternate phasing only.

SIGNAL HEAD HOOK-UP CHART

LOAD SWITCH NO.	S1	S2	S3	S4	S5	S6	S7	S8	S9	S10	S11	S12	AUX S1	AUX S2	AUX S3	AUX S4	AUX S5	AUX S6
CMU CHANNEL NO.	1	2	13	3	4	14	5	6	15	7	8	16	9	10	17	11	12	18
PHASE	1	2	2 PED	3	4	POLA	5	6	POLB	7	8	8 PED	OLA	OLB	SPARE	OLC	OLD	SPARE
SIGNAL HEAD NO.	NU	NC	NU	NU	NC	P41, P42	51*	NC	P61, P62	NU	NU	NU	61,62	41,42	62	NU	51*	21,22
RED														A121	A124			A101
YELLOW							*							A122	A125			A102
GREEN														A123	A126			A103
RED ARROW																		A114
YELLOW ARROW															A125			A115
FLASHING YELLOW ARROW																		A116
GREEN ARROW							133								A126			
Hand icon						104		119										
Walking person icon						106		121										

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

INPUT FILE POSITION LAYOUT

(front view)

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

EX.: 1A, 2A, ETC. = LOOP NO.'S
 FS = FLASH SENSE
 ST = STOP TIME

⊗ Wired Input - Do not populate slot with detector card

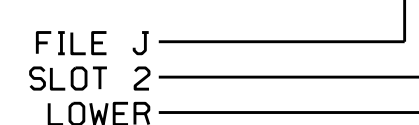
INPUT FILE CONNECTION & PROGRAMMING CHART

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
2A	TB2-5,6	I2U	39	1	2	2/10	Y	Y			
2B	TB2-7,8	I2L	43	5	12	2/10	Y	Y			
4A	TB4-9,10	I6U	41	3	4	4/12	Y	Y			5
5A'	TB3-1,2	J1U	55	17	5	5	Y	Y			15
		I4U	47	9	22	2/10	Y	Y	Y		3
6A	TB3-5,6	J2U	40	2	6	6/14	Y	Y			
6B	TB3-7,8	J2L	44	6	16	6/14	Y	Y			
PED PUSH BUTTONS											
P41,P42	TB8-5,6	I12L	69	31	PED 4	4 PED					
P61,P62	TB8-7,9	I13U	68	30	PED 6	6 PED					

NOTE:
 INSTALL DC ISOLATORS IN INPUT FILE SLOTS 112 AND 113.

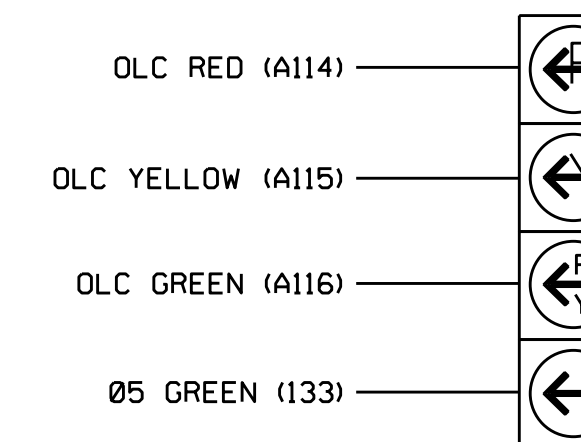
1 Add jumper from J1-W to 14-W, on rear of input file.

INPUT FILE POSITION LEGEND: J2L



FYA SIGNAL WIRING DETAIL

(wire signal head as shown)



NOTE

The sequence display for signal head 51 requires special logic programming. See sheet 2 for programming instructions.

COUNTDOWN PEDESTRIAN SIGNAL OPERATION

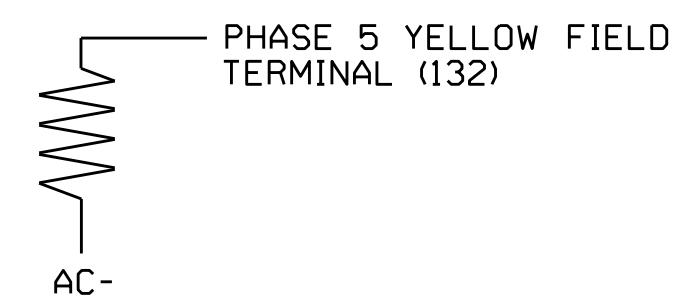
Countdown Ped Signals are required to display timing only during Ped Clearance Interval. Consult Ped Signal Module user's manual for instructions on selecting this feature.

THIS ELECTRICAL DETAIL IS FOR THE SIGNAL DESIGN: 13-0741
 DESIGNED: February 2016
 SEALED: 11/7/2016
 REVISED: N/A

LOAD RESISTOR INSTALLATION DETAIL

(install resistor as shown below)

ACCEPTABLE VALUES	WATTAGE
1.5K - 1.9K	25W (min)
2.0K - 3.0K	10W (min)



Electrical Detail - Sheet 1 of 4

DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED

Prepared In the Offices of:
 Transportation Mobility and Safety Applications
 NORTH CAROLINA PROFESSIONAL ENGINEER
 KEITH M. MINAS

US 25 (Hendersonville Road) at Vanderbilt Park Drive

Division 13 Buncombe County Asheville

PLAN DATE: October 2016 REVIEWED BY: BAS

PREPARED BY: S. Armstrong REVIEWED BY:

REVISIONS INIT. DATE

750 N. Greenfield Pkwy, Garner, NC 27529

2F80766EC0244AS

11/9/2016

SIG. INVENTORY NO. 13-0741

09-NOV-2016 13:40 S:\MITSAS\115-Signal\work\hgr\cdp\sig\MonArmsTrongh\30741_sml.elec.xxx.dgn somstron