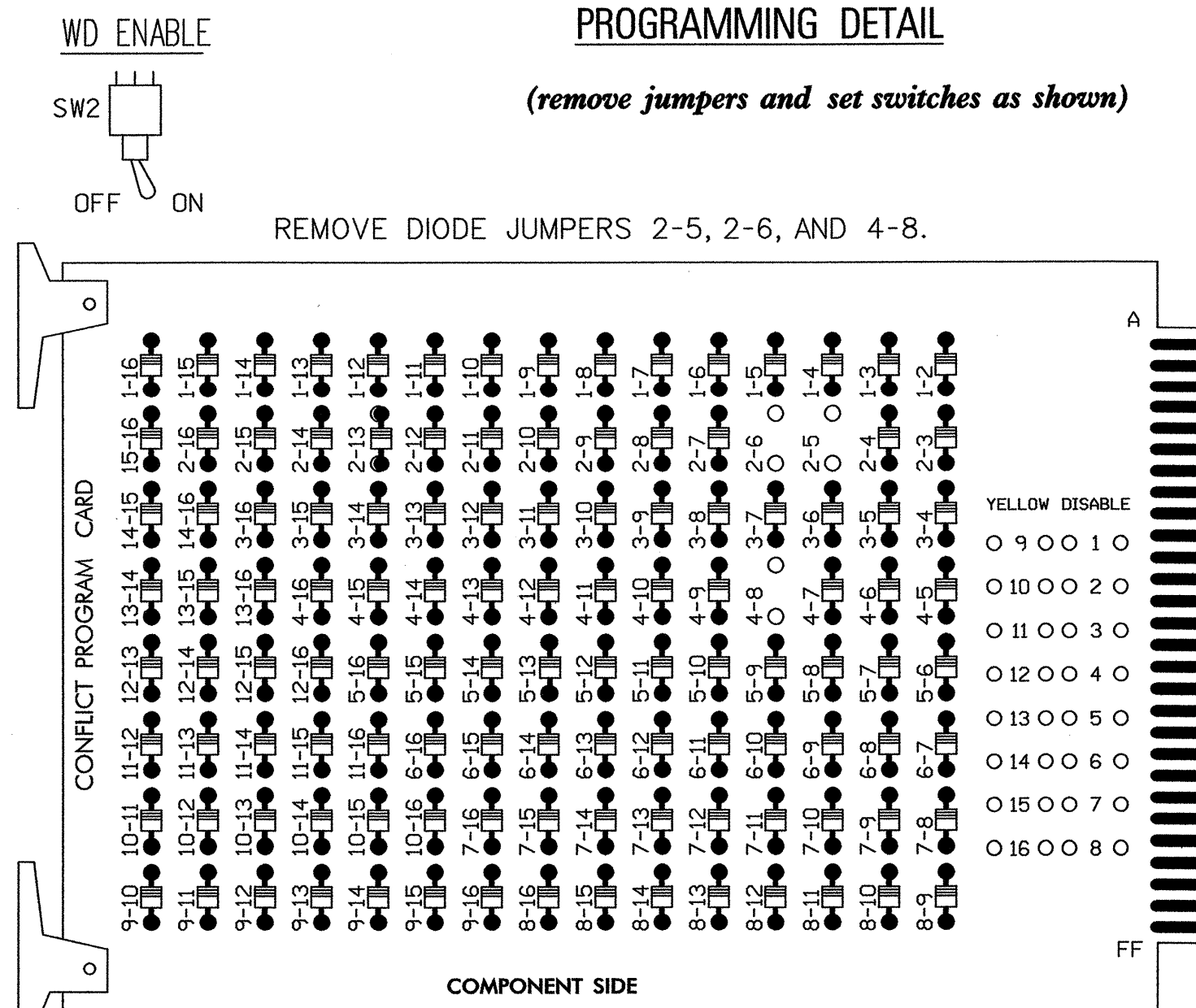


EDI MODEL 2010ECL CONFLICT MONITOR

PROGRAMMING DETAIL

(remove jumpers and set switches as shown)



OPTIONS

- RF 2010
 - RP DISABLE
 - WD 1.0 SEC
 - GY ENABLE
 - POLARITY
 - YEL TIME-1
 - YEL TIME-2
 - YEL TIME-3
- 1 2 3 4 5 6 7 8 SSM
- 9 10 11 12 13 14 15 16 SSM
- = DENOTES POSITION OF SWITCH

REMOVE JUMPERS 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 SEL1-SEL5 ARE PRESENT ON THE MONITOR BOARD.

INPUT FILE POSITION LAYOUT

(front view)

	1	2	3	4	5	6	7	8	9	10	11	12	13	14
FILE "I" U	S	∅ 2	S	S	S	∅ 4	S	S	S	S	S	S	S	FS
L	∅ 2	2A	∅ 2	∅ 2	∅ 2	NOT USED	∅ 2	∅ 2	∅ 2	∅ 2	∅ 2	∅ 2	∅ 2	DC ISOLATOR
FILE "J" U	∅ 5	∅ 5	∅ 6/SYS	∅ 6	S	∅ 8	S	S	S	S	S	S	S	ST
L	5B	5A	6A-S39	6C	∅ 2	8A	∅ 2	∅ 2	∅ 2	∅ 2	∅ 2	∅ 2	∅ 2	DC ISOLATOR
	NOT USED	5A	6B-S40	NOT USED	∅ 2	8B	∅ 2	∅ 2	∅ 2	∅ 2	∅ 2	∅ 2	∅ 2	

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

FS = FLASH SENSE
ST = STOP TIME

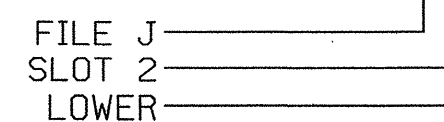
INPUT FILE CONNECTION & PROGRAMMING CHART

LOOP NO.	LOOP TERMINAL	INPUT FILE POS.	PIN NO.	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	Y	Y	-	---	---
2B	TB2-7,8	I2L	43	5	12	2	Y	Y	-	---	---
4A	TB4-9,10	I6U	41	3	4	4	Y	Y	-	---	10
5B	TB3-1,2	J1U	55	17	5	5	Y	Y	-	---	15
5A ¹	TB3-5,6	J2U	40	2	6	5	Y	Y	-	---	15
	TB3-7,8	J2L	44	6	16	2	Y	Y	Y	---	3
* 6A-S39	TB3-9,10	J3U	64	26	36	6/SYS	Y	Y	-	---	---
* 6B-S40	TB3-11,12	J3L	77	39	46	6/SYS	Y	Y	-	---	---
6C	TB5-1,2	J4U	48	10	26	6	Y	Y	-	---	3
8A	TB5-9,10	J6U	42	4	8	8	Y	Y	-	---	---
8B	TB5-11,12	J6L	46	8	18	8	Y	Y	-	---	15

¹ DENOTES ADD JUMPERS FOR LOOP 5A FROM TB3-5 TO TB3-7, AND FROM TB3-6 TO TB3-8.

* SYSTEM DETECTOR.

INPUT FILE POSITION LEGEND: J2L



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 1,3,7,9,10,11,12,13,14,15 & 16 TO LOAD SWITCH AC+ PER CABINET MANUFACTURER'S INSTRUCTIONS.
- PROGRAM CONTROLLER TO START UP IN PHASES 2 AND 6 GREEN.
- ENABLE SIMULTANEOUS GAP-OUT FEATURE, ON CONTROLLER UNIT, FOR ALL PHASES.
- PROGRAM PHASES 4 AND 8, ON CONTROLLER UNIT, FOR DUAL ENTRY.
- PROGRAM PHASES 2 AND 6, ON CONTROLLER UNIT, FOR VARIABLE INITIAL AND GAP REDUCTION.
- THE CONTROLLER AND CABINET ARE TO BE PROGRAMMED AND WIRED TO BE PART OF A CLOSED LOOP SIGNAL SYSTEM. CONTROLLER ASSET: 0369
- INSTALL THE ACCUTIME 2000 GPS PER THE MANUFACTURER'S INSTRUCTIONS AND THE CONNECTOR WIRING DETAIL ON PAGE 2. THE GPS UNIT WILL BE REMOVED UPON INSTALLATION AND ACTUATION OF THE CLOSED LOOP SYSTEM.

FIELD CONNECTION 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.	NU	21,22, 23	NU	NU	41,42	NU	21,42	61,62, 63	NU	NU	81,82	NU
GREEN		130			103			136			109	
YELLOW		129			102			135			108	
RED		128			101		*	134			107	
RED ARROW												
YELLOW ARROW								132				
GREEN ARROW								133				
⤴												
⤵												

NU = NOT USED

* DENOTES INSTALL LOAD RESISTOR. SEE LOAD RESISTOR INSTALLATION DETAIL THIS PAGE.

EQUIPMENT INFORMATION

CONTROLLER.....CONTRACTOR SUPPLIED 2070L
 CABINETCONTRACTOR SUPPLIED 332
 SOFTWAREECONOLITE OASIS
 CABINET MOUNT.....BASE
 OUTPUT FILE POSITIONS...12
 LOAD SWITCHES USED.....S2,S4,S5,S6,S8
 PHASES USED.....2,4,5,6,8
 OVERLAPS.....NONE

BACK-UP PROTECTION PROGRAMMING DETAIL

(program controller as shown below)

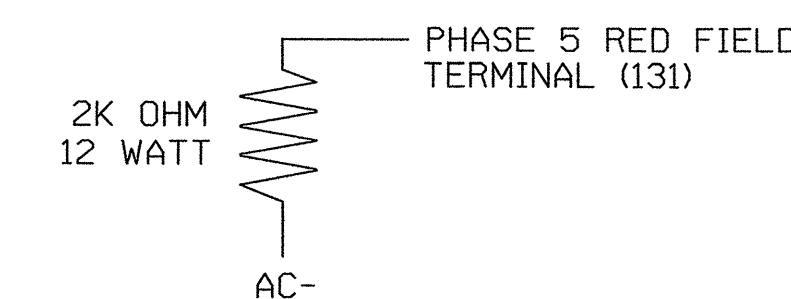
- FROM MAIN MENU PRESS '2' (PHASE CONTROL), THEN '1' (PHASE CONTROL FUNCTIONS). SCROLL TO THE BOTTOM OF THE MENU AND ENABLE DYNAMIC/BACKUP CONTROL FUNCTION 1.
- FROM PHASE CONTROL FUNCTIONS MENU PRESS '2' (DYNAMIC/BACKUP CONTROL FUNCTIONS).

```

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

BACKUP PROTECTION PROGRAMMING COMPLETE

LOAD RESISTOR INSTALLATION DETAIL



NOTE: THE PURPOSE OF THESE RESISTORS IS TO LOAD THE CHANNEL RED MONITOR INPUTS IN ORDER FOR THE SIGNAL SEQUENCE MONITOR TO USE THE FULL SIGNAL SEQUENCE MONITORING CAPABILITY ON CHANNELS THAT DO NOT USE THE RED DISPLAY IN THE FIELD.

SIGNAL UPGRADE PAGE 1 OF 2

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ELECTRICAL AND PROGRAMMING DETAILS FOR:

US 17 (MARKET STREET) AT SR 1363 (BAYSHORE DRIVE) / SR 2717 (TORCHWOOD BLVD.)

PREPARED BY: M W YALCH REVIEWED BY: J O DEATON

PLANNED DATE: NOVEMBER 2003

DESIGNED: OCTOBER 2003
 SEALED: 12/11/2003
 REVISED: TBD

SEAL NORTH CAROLINA PROFESSIONAL ENGINEER JAMES O. DEATON

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SIG. INVENTORY NO. 03-0369