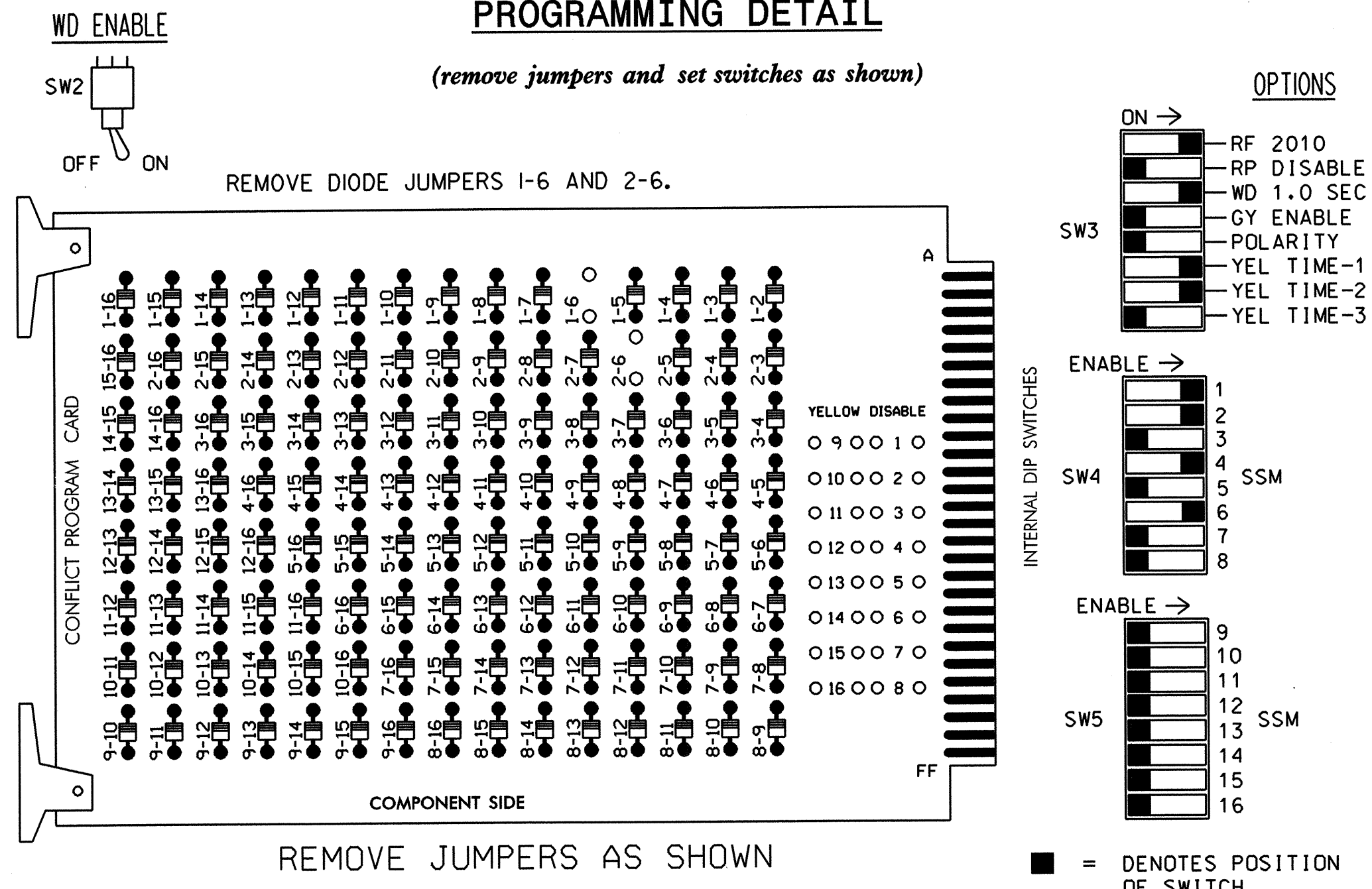


EDI MODEL 2010ECL CONFLICT MONITOR

PROGRAMMING DETAIL



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)

FILE "I"	1	2	3	4	5	6	7	8	9	10	11	12	13	14
	S	∅ 6	∅ 2	S	S	∅ 4	∅ 4	S	S	S	S	S	S	FS
	1A	2A	NOT USED	NOT USED	∅ 4	∅ 4	NOT USED	NOT USED	NOT USED	NOT USED	NOT USED	NOT USED	NOT USED	DC ISOLATOR
FILE "J"	S	∅ 6	S	S	S	S	S	S	S	S	S	S	S	FS
	6A	6A	NOT USED	NOT USED	NOT USED	NOT USED	NOT USED	NOT USED	NOT USED	NOT USED	NOT USED	NOT USED	NOT USED	DC ISOLATOR
	6B	6B	NOT USED	NOT USED	NOT USED	NOT USED	NOT USED	NOT USED	NOT USED	NOT USED	NOT USED	NOT USED	NOT USED	DC ISOLATOR

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

FS = FLASH SENSE  
ST = STOP TIME

INPUT FILE CONNECTION & PROGRAMMING CHART

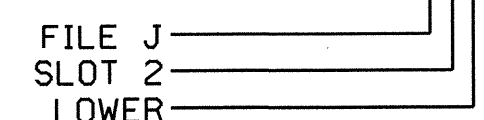
LOOP NO.	LOOP TERMINAL	INPUT FILE POS.	PIN NO.	INPUT ASSIGNMENT NO.	DETECTOR NO.	NEMA PHASE	CALL	EXTEND	FULL TIME DELAY	STRETCH TIME	DELAY TIME
1A <sup>1</sup>	TB2-5,6	I2U	39	1	2	6	Y	Y	Y	---	3
	TB2-7,8	I2L	43	5	12	1	Y	Y	-	---	15
2A	TB2-9,10	I3U	63	25	32	2	Y	Y	-	---	--
4A	TB4-9,10	I6U	41	3	4	4	Y	Y	-	---	--
4B	TB4-11,12	I6L	45	7	14	4	Y	Y	-	---	15
4C	TB6-1,2	I7U	65	27	34	4	Y	Y	-	---	20
6A	TB3-5,6	J2U	40	2	6	6	Y	Y	-	1.8	--
6B	TB3-7,8	J2L	44	6	16	6	Y	Y	-	---	--
* S1	TB7-9,10	J9U	59	21	15	SYS	-	-	-	---	--
** Q1	TB7-11,12	J9L	61	23	PRE1 INPUT	PRE 1	Y	-	-	---	5

<sup>1</sup> DENOTES ADD JUMPERS FOR LOOP 1A FROM TB2-5 TO TB2-7, AND FROM TB2-6 TO TB2-8.

\* SYSTEM DETECTOR ONLY. REMOVE THE VEHICLE PHASE ASSIGNED TO THIS DETECTOR IN THE DEFAULT PROGRAMMING.

\*\* QUEUE BACKUP DETECTOR. SEE QUEUE BACKUP PREEMPTION PROGRAMMING DETAIL.

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 3,5,7,8,9,10,11,12,13,14,15 & 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.
- THE CONTROLLER AND CABINET ARE TO BE PROGRAMMED AND WIRED TO BE PART OF A CLOSED LOOP SIGNAL SYSTEM. CONTROLLER ASSET: 0672

QUEUE BACKUP PREEMPTION PROGRAMMING DETAIL

(program controller as shown below)

LOOP Q1 SERVES AS A QUEUE BACKUP DETECTOR. TO ACCOMPLISH THE QUEUE BACKUP PREEMPTION ROUTINE DESCRIBED ON THE SIGNAL PLANS, PERFORM THE FOLLOWING ACTIONS IN THE CONTROLLER SOFTWARE:

- FROM MAIN MENU PRESS '5' FOR INPUTS. REASSIGN INPUT ASSIGNMENT NO. 23 (C1 PIN 61), CURRENTLY ASSIGNED AS DETECTOR NO. 17, AS PREEMPT 1 INPUT, WITH A DELAY OF 5 SECONDS.
- FROM MAIN MENU, PRESS 'A' (PREEMPTION), THEN '1' (STANDARD PREEMPTIONS). ADVANCE TO PREEMPT 1 AND ENTER THE FOLLOWING:

```

PREEMPTION #1 SETTINGS (NEXT:1-10)
INTERVAL/TIMING CLEAR/DWELL PHASES
GRN YEL RED 12345678910111213141516
1 255 0.0 0.0 X
2 0 0.0 0.0
3 0 0.0 0.0
4 0 0.0 0.0
5 1 0.0 0.0 X X
EXIT CALLS
OPTIONS
PRIORITY (Y/N TO SELECT) .....MED
DELAY TIMER (0-255 SEC) .....0
MIN GREEN BEFORE PRE (0= DEFAULT)....7
PED CLEAR BEFORE PRE (0= DEFAULT)....0
YELLOW CLEAR BEFORE PRE (0= DEFAULT).4.7
RED CLEAR BEFORE PRE (0= DEFAULT)...2.0
DWELL MIN TIMER (0-255 SEC) .....32
DWELL MAX TIMER (0=OFF,1-255MIN) ...2
DWELL HOLD-OVER TIMER (0-255) .....0
LATCH CALL? .....N
LINK TO NEXT PREEMPT? .....N
ENABLE BACKUP PROTECTION? .....N
HOLD CLEAR 1 PHASES DURING DELAY? ...N
FAST GREEN FLASH DWELL PHASES? .....N
PED CLEARANCE THROUGH YELLOW? .....N
INHIBIT OVERLAP GREEN EXTENSION? ...N
SERVICE DURING SOFTWARE FLASH? .....Y
REST IN RED DURING DWELL INTERVAL? ..N
FLASH DWELL INTERVAL? .....N
ALLOW PEDS IN DWELL INTERVAL? .....N
RE-TIME DWELL INTERVAL? .....N
OVERLAPS: ABCDEFGHIJKLMNPO
DWELL INT FLASH YELLOW
OMIT OVERLAPS:
    
```

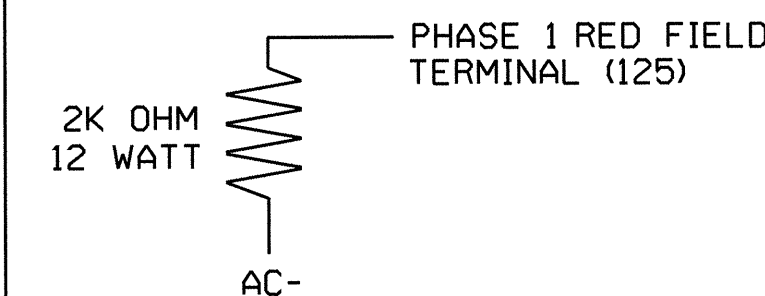
FIELD CONNECTION HOOK-UP CHART

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.	61	21,22	NU	NU	41,42	NU	NU	61,62	NU	NU	NU	NU
GREEN		130			103			136				
YELLOW		129			102			135				
RED	*	128			101			134				
RED ARROW												
YELLOW ARROW	126											
GREEN ARROW	127											
⤴												
⤵												

NU = NOT USED

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

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.

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,S4,S6  
 PHASES USED.....1,2,4,6  
 OVERLAPS.....NONE

THIS ELECTRICAL DETAIL IS FOR THE SIGNAL DESIGN: 13-0672  
 DESIGNED: 02/20/2003  
 SEALED: 02/26/2004  
 REVISED: TBD

SIGNAL UPGRADE - FINAL

ELECTRICAL AND PROGRAMMING DETAILS FOR:

Prepared for the Offices of:

NC 146 (LONG SHOALS ROAD)  
 AT  
 I-26 EB RAMP

DIVISION 13 BUNCOMBE COUNTY ASHEVILLE

PLAN DATE: JULY 2003 REVIEWED BY: J O DEATON

PREPARED BY: M W YALCH REVIEWED BY:

REVISIONS

INIT. DATE

Signature: James O. Deaton 2/26/04

SIG. INVENTORY NO. 13-0672

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