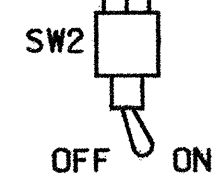


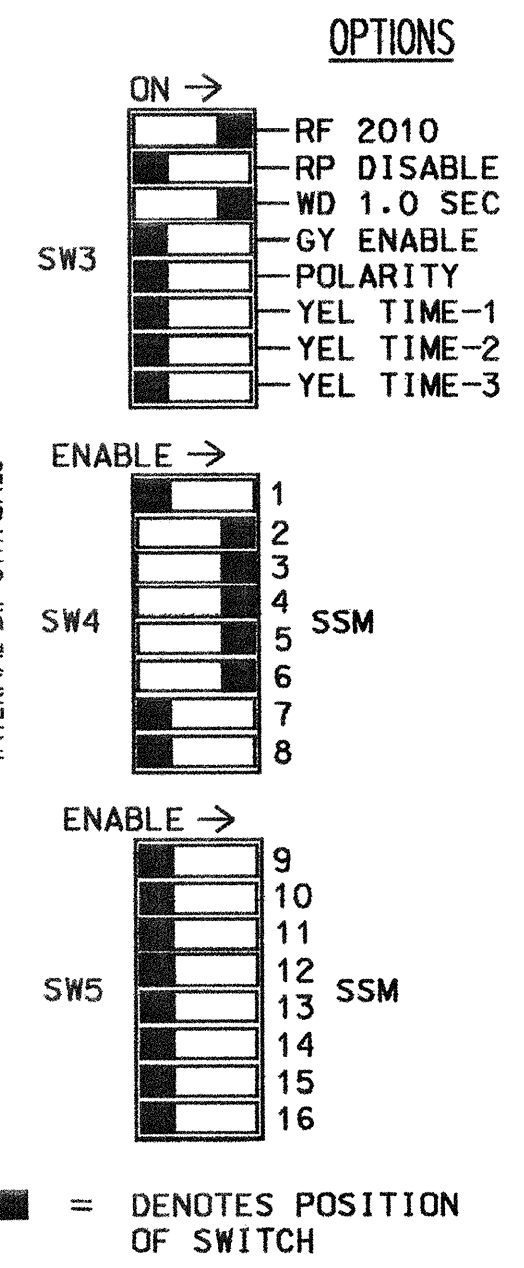
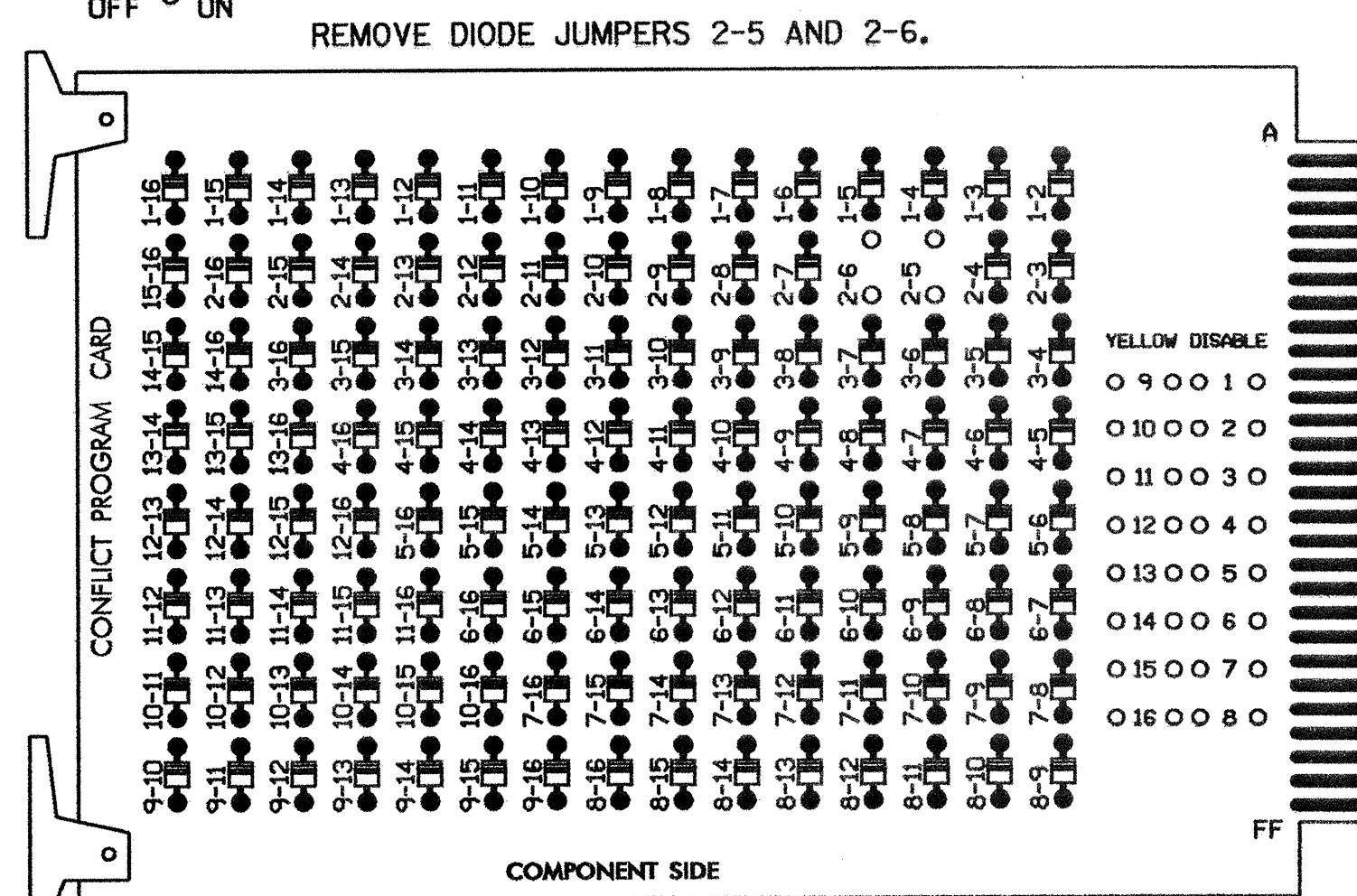
**EDI MODEL 2010ECL CONFLICT MONITOR**

**PROGRAMMING DETAIL**

WD ENABLE



(remove jumpers and set switches as shown)



- NOTES:
1. Card is provided with all diode jumpers in place. Removal of any jumper allows its channels to run concurrently.
  2. Make sure jumpers SEL1-SEL5 are present on the monitor board.

**NOTES**

1. 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.
2. 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 1,7,8,9, 10,11,12,13,14,15 & 16 to load switch AC+ per the cabinet manufacturer's instructions.
3. Program controller to start up in phases 2 and 6 green.
4. Enable Simultaneous Gap-Out, on the controller unit, for all phases.
5. The cabinet and controller are part of the Gastonia City 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 | NU    | 31 32   | 41 42   | NU    | 21 | 61,62 | NU    | NU | NU | NU    |
| GREEN           |    | 130   |       | 118 118 | 103 103 |       |    | 136   |       |    |    |       |
| YELLOW          |    | 129   |       | 117 117 | 102 102 |       |    | 135   |       |    |    |       |
| RED             |    | 128   |       | 116 116 | 101 101 |       | *  | 134   |       |    |    |       |
| RED ARROW       |    |       |       |         |         |       |    |       |       |    |    |       |
| YELLOW ARROW    |    |       |       |         |         |       |    | 132   |       |    |    |       |
| GREEN ARROW     |    |       |       | 118     | 103     |       |    | 133   |       |    |    |       |

NU = Not Used  
\* Denotes install load resistor. See load resistor installation detail this sheet.

**EQUIPMENT INFORMATION**

CONTROLLER.....CONTRACTOR SUPPLIED 2070L  
CABINET.....CONTRACTOR SUPPLIED 332  
SOFTWARE.....ECONOLITE OASIS  
CABINET MOUNT.....BASE  
OUTPUT FILE POSITIONS...12  
LOAD SWITCHES USED.....S2,S3,S4,S5,S6  
PHASES USED.....2,3,4,5,6  
OVERLAPS.....NONE

**DYNAMIC BACK-UP CONTROL PROGRAMMING**

(program controller as shown below)

1. 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.
2. From Phase Control Functions Menu press '2' (Dynamic/Backup Control Functions).

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

BACKUP PROTECTION PROGRAMMING COMPLETE

**INPUT FILE POSITION LAYOUT**

(front view)

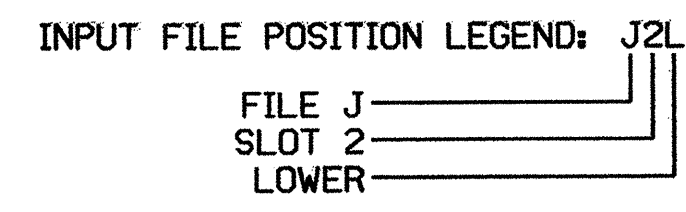
|            | 1  | 2  | 3  | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 |
|------------|----|----|----|---|---|---|---|---|---|----|----|----|----|----|
| FILE "I" U | 2A | 3A | 4A |   |   |   |   |   |   |    |    |    |    | FS |
| FILE "J" U | 5A | 6A |    |   |   |   |   |   |   |    |    |    |    |    |

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

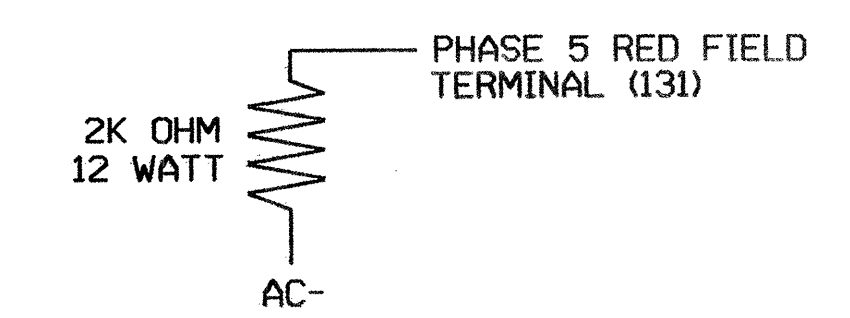
**INPUT FILE CONNECTION & PROGRAMMING CHART**

| 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      |                 | 1.8          |            |
| 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      |                 |              | 5          |
| 4A              | TB4-9,10      | I6U             | 41      | 3                    | 4            | 4          | Y    | Y      |                 |              | 3          |
| 4B              | TB4-11,12     | I6L             | 45      | 7                    | 14           | 4          | Y    | Y      |                 |              | 10         |
| 5A <sup>1</sup> | TB3-5,6       | J2U             | 40      | 2                    | 6            | 5          | Y    | Y      |                 |              | 15         |
| 6A              | TB3-9,10      | J3U             | 64      | 26                   | 36           | 6          | Y    | Y      | Y               |              | 3          |
| 6B              | TB3-11,12     | J3L             | 77      | 39                   | 46           | 6          | Y    | Y      |                 | 1.8          |            |

<sup>1</sup>Add jumpers from TB3-5 to TB3-7, and from TB3-6 to TB3-8.



**LOAD RESISTOR INSTALLATION DETAIL**



NOTE: The purpose of this resistor is to load the channel red monitor input in order for the Signal Sequence Monitor to use the full signal sequence monitoring capability on this channel, which does not use the red display in the field.

**Signal Upgrade**

|  |  |                           |                                   |          |
|--|--|---------------------------|-----------------------------------|----------|
| <p>ELECTRICAL AND PROGRAMMING DETAILS FOR:</p> <p>Prepared in the Office of:<br/> </p> | <b>SR 2200 (Cox Rd.)</b>                           |                           | <p>SEAL</p>                       |          |
|  | at<br><b>Gaston Mall Entrance / Commercial Dr.</b> |                           |                                   |          |
|  | Division 12  | Gaston County             |                                   | Gastonia |
|  | PLAN DATE: February 2005                           | REVIEWED BY: <i>Klooz</i> |                                   |          |
|  | PREPARED BY: A.A. Klooz                            | REVIEWED BY:              |                                   |          |
| REVISIONS  | INIT.  | DATE                      |                                   |          |
| <p>Signature: <i>John T. Rowland</i> 3-8-05</p>  |  |                           |                                   |          |
| <p>122 N. McDowell St., Raleigh, NC 27603</p>  |  |                           | <p>SIG. INVENTORY NO. 12-1238</p> |          |