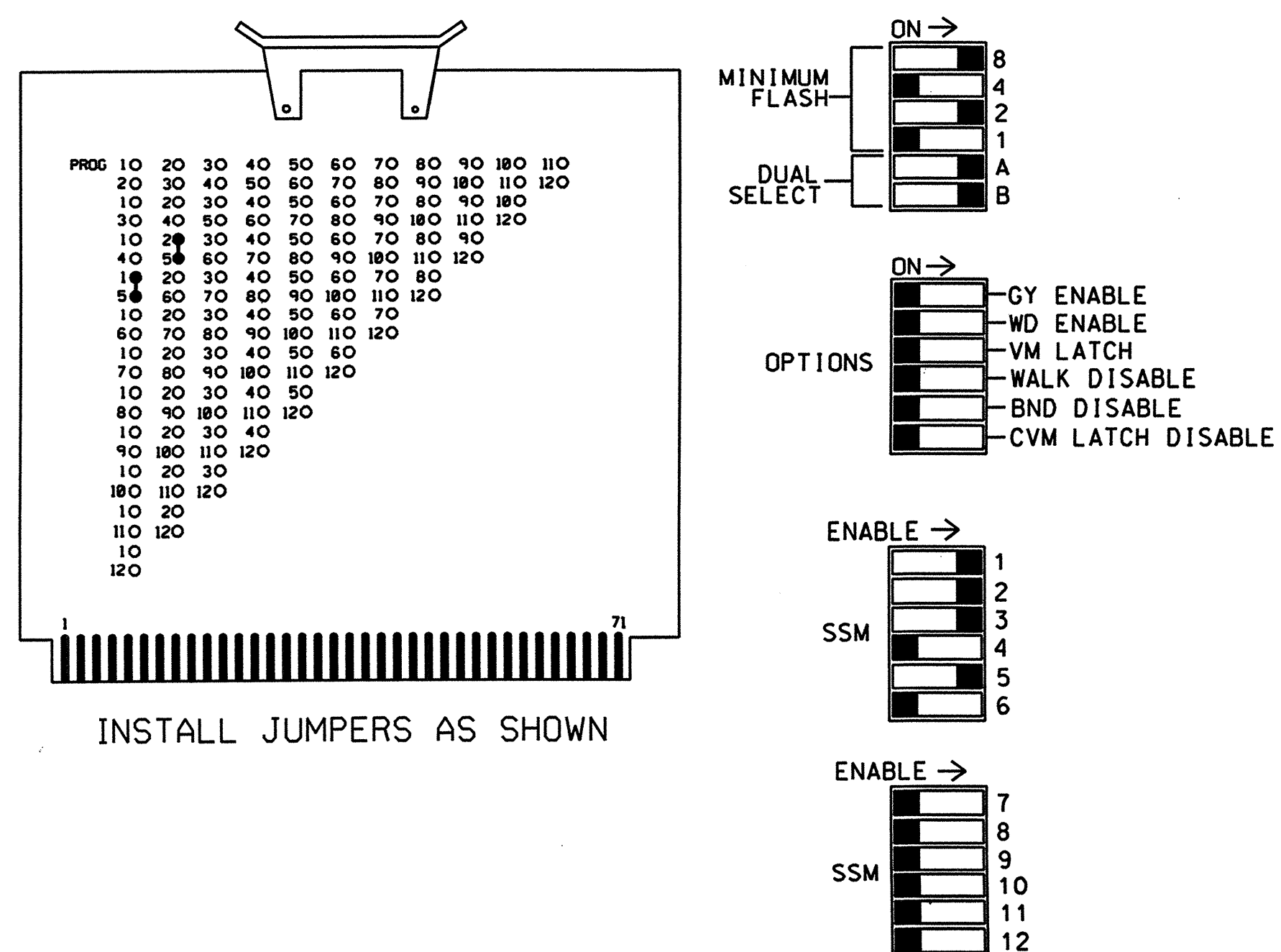


EDI MODEL SSM-12E CONFLICT - VOLTAGE MONITOR

PROGRAMMING DETAIL

(set switches as shown below)



INSTALL JUMPERS AS SHOWN

NOTES

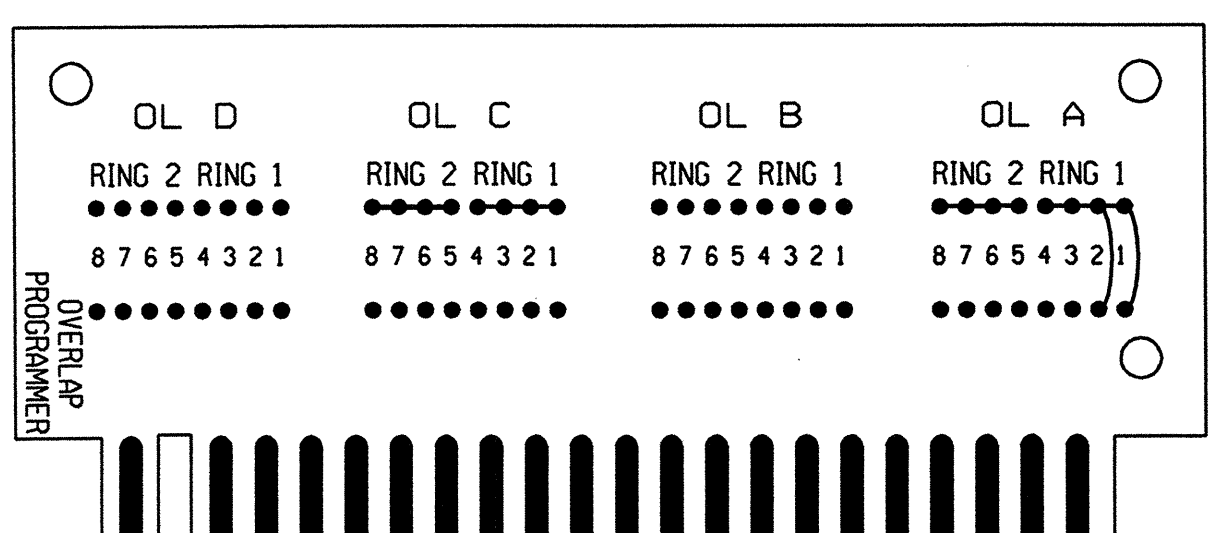
1. TO PREVENT "FLASH-CONFLICT" PROBLEMS, WIRE ALL UNUSED PHASES AND OVERLAPS TO FLASH RED. VERIFY THAT SIGNAL HEADS FLASH IN ACCORDANCE WITH THE SIGNAL PLANS.
2. TO PREVENT RED FAILURES ON UNUSED MONITOR CHANNELS, TIE UNUSED LOAD SWITCH RED OUTPUTS 4, 6, 7 AND 8 TO LOAD SWITCH AC+ BY INSERTING A JUMPER PLUG IN THE UNUSED LOAD SWITCH SOCKET FROM PIN 1 (LS AC+) TO PIN 3 (RED OUT). MAKE SURE ALL FLASH TRANSFER RELAYS ARE IN PLACE.
3. PROGRAM THE CONTROLLER TO START UP IN PHASE 2 GREEN.
4. SET POWER-UP FLASH TIME TO 10 SECONDS AND IMPLEMENT ON THE CONFLICT MONITOR. SET CONTROLLER POWER-UP FLASH TIME TO 0 SECONDS.
5. ENABLE SIMULTANEOUS GAP-OUT FEATURE, ON CONTROLLER UNIT, FOR ALL PHASES.
6. WIRE DETECTORS IN ACCORDANCE WITH MANUFACTURERS' INSTRUCTIONS TO ACCOMPLISH THE DETECTION SCHEMES SHOWN ON THE SIGNAL DESIGN PLANS.

FIELD CONNECTION HOOK-UP CHART

PHASE	1	2	3	4	OLA	OLB	OLC	OLD	1 PED	2 PED	3 PED	4 PED
SIGNAL HEAD NO.	23	32	21,22	31,32	NU	23,24	NU	NU	NU	NU	NU	NU
GREEN			2G	3G	5G							
YELLOW			2Y	3Y	5Y							
RED	*		2R	3R	5R							
RED ARROW												
YELLOW ARROW	1Y	1Y										
GREEN ARROW	1G	1G										

NU = NOT USED
* DENOTES INSTALL LOAD RESISTOR. SEE LOAD RESISTOR INSTALLATION DETAIL THIS PAGE.

NEMA OVERLAP CARD

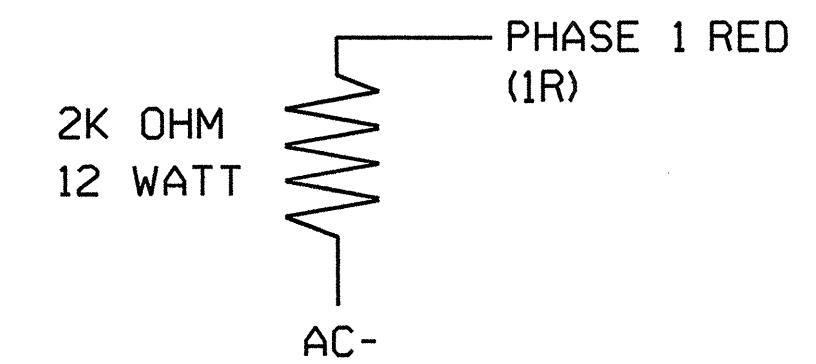


INSTALL JUMPERS AS SHOWN

EQUIPMENT INFORMATION

- CONTROLLER.....ECONOLITE ASC/2-2100
- CABINET.....ECONOLITE 5300-444BR
- CABINET MOUNT.....BASE
- LOADBAY POSITIONS.....12
- LOAD SWITCHES USED.....1, 2, 3, 5
- PHASES USED.....1, 2, 3
- OL/A.....1 + 2
- OL/B.....NOT USED
- OL/C.....NOT USED
- OL/D.....NOT USED

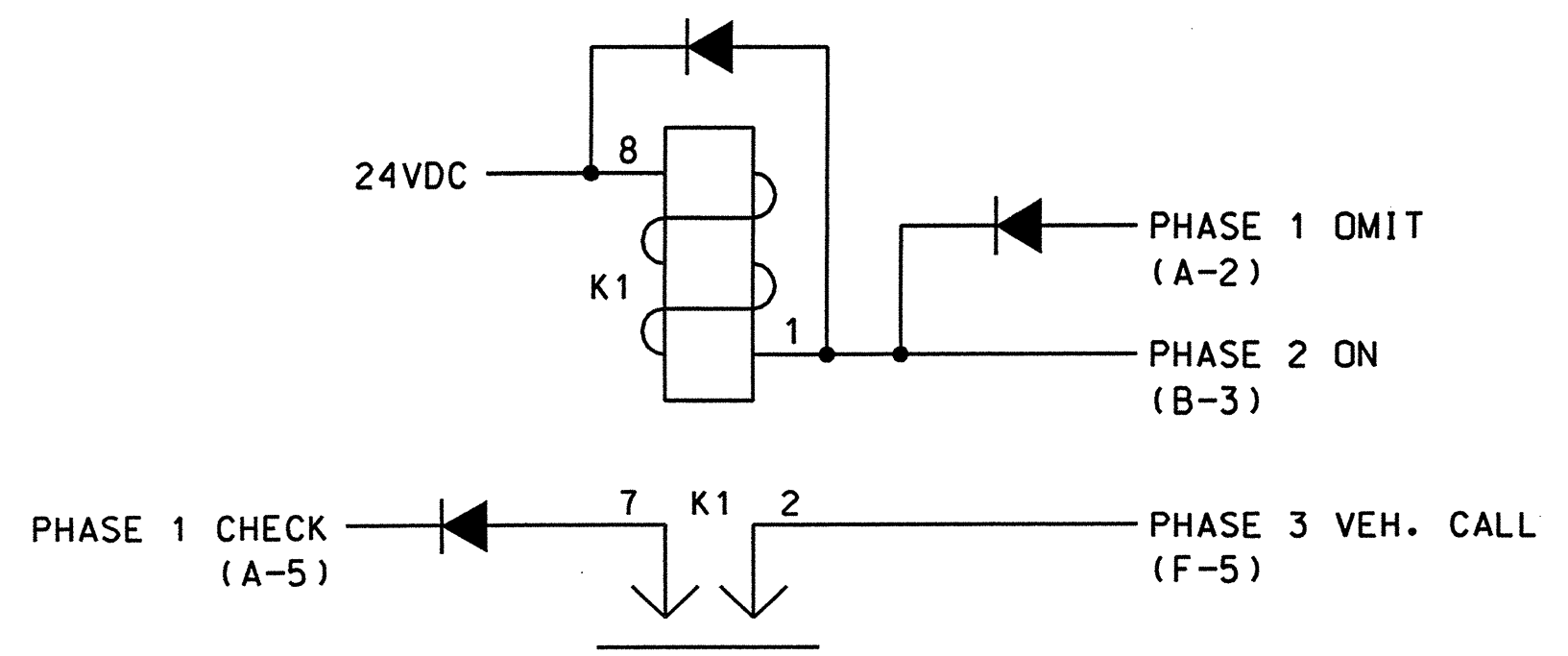
LOAD RESISTOR INSTALLATION DETAIL



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 PHASES THAT DO NOT USE THE RED DISPLAY IN THE FIELD.

BACK-UP PROTECTION WIRING DETAIL

(WIRE AS SHOWN)



NOTES

1. RELAY 'K1' IS A SPST WITH A 24VDC COIL. (P&B# KRP3DH)
2. ALL DIODES ARE VALUED AT 600V PIV. 1 AMP MINIMUM. (RECOMMENDED PART NO. 1N4005)
3. WHEN TRAFFIC CONDITIONS REQUIRE THE CONTROLLER TO BACK-UP FROM PHASE 2 TO PHASE 1, THIS RELAY LOGIC CIRCUIT WILL FORCE THE CONTROLLER TO CYCLE THROUGH PHASE 3. THE CONTROLLER IS NOT ALLOWED TO BACK-UP DIRECTLY TO PHASE 1 FROM PHASE 2.

TYPICAL CONNECTION CHART FOR DETECTORS

PIN FUNCTION	LOOP PANEL TERMINATION
AC+	AC+
AC-	AC-
CHASSIS GROUND	CHASSIS GROUND
LOOP INPUT	LOOP
LOOP INPUT	LOOP
RELAY NORMALLY OPEN	VEHICLE CALL INPUT
RELAY COMMON	LOGIC GROUND
TIMER INHIBIT	ASSOCIATED PHASE GREEN

NOTES:

1. THE TIMER INHIBIT WIRE SHALL BE CONNECTED TO THE ASSOCIATED PHASE GREEN LOAD SWITCH OUTPUT WHEN ONLY DELAY OPERATION IS REQUIRED, UNLESS OTHERWISE SPECIFIED.
2. IF EXTEND OPERATION IS REQUIRED, THE TIMER INHIBIT WIRE SHALL NOT BE CONNECTED.

THIS ELECTRICAL DETAIL IS FOR THE SIGNAL DESIGN: 08-0649
DESIGNED: 06-2004
SEALED: 06-14-04
REVISED: N/A

Signal Upgrade - Temporary Design 1

Prepared for the Offices of:

NC 42/SR 1579 (Broadway Rd.)
At
SR 1529 (Cox Mill Road)

Division 8 Lee County Sanford
 PLAN DATE: JUNE 2004 REVIEWED BY: H.L. WINSTEAD
 PREPARED BY: K.H. IDE REVIEWED BY:
 REVISIONS INIT. DATE
 SIGNATURE DATE
 6/14/04

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SIG. INVENTORY NO. 08-0649T