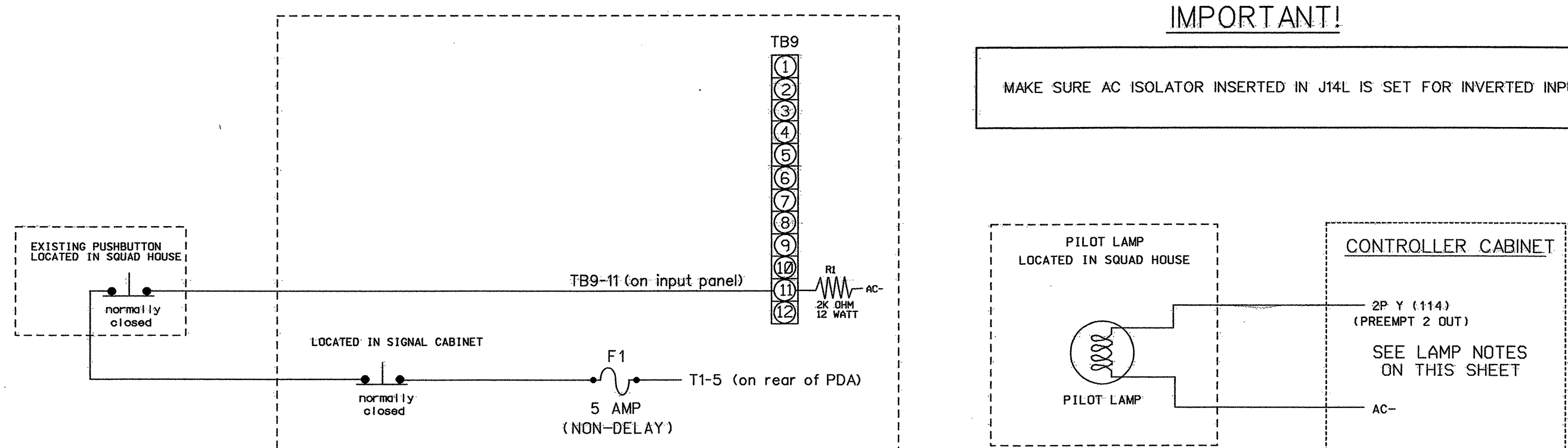


EMERGENCY VEH. PREEMPTION PUSHBUTTON AND INDICATOR LAMP WIRING DETAIL

(wire push-button and lamp as shown below)



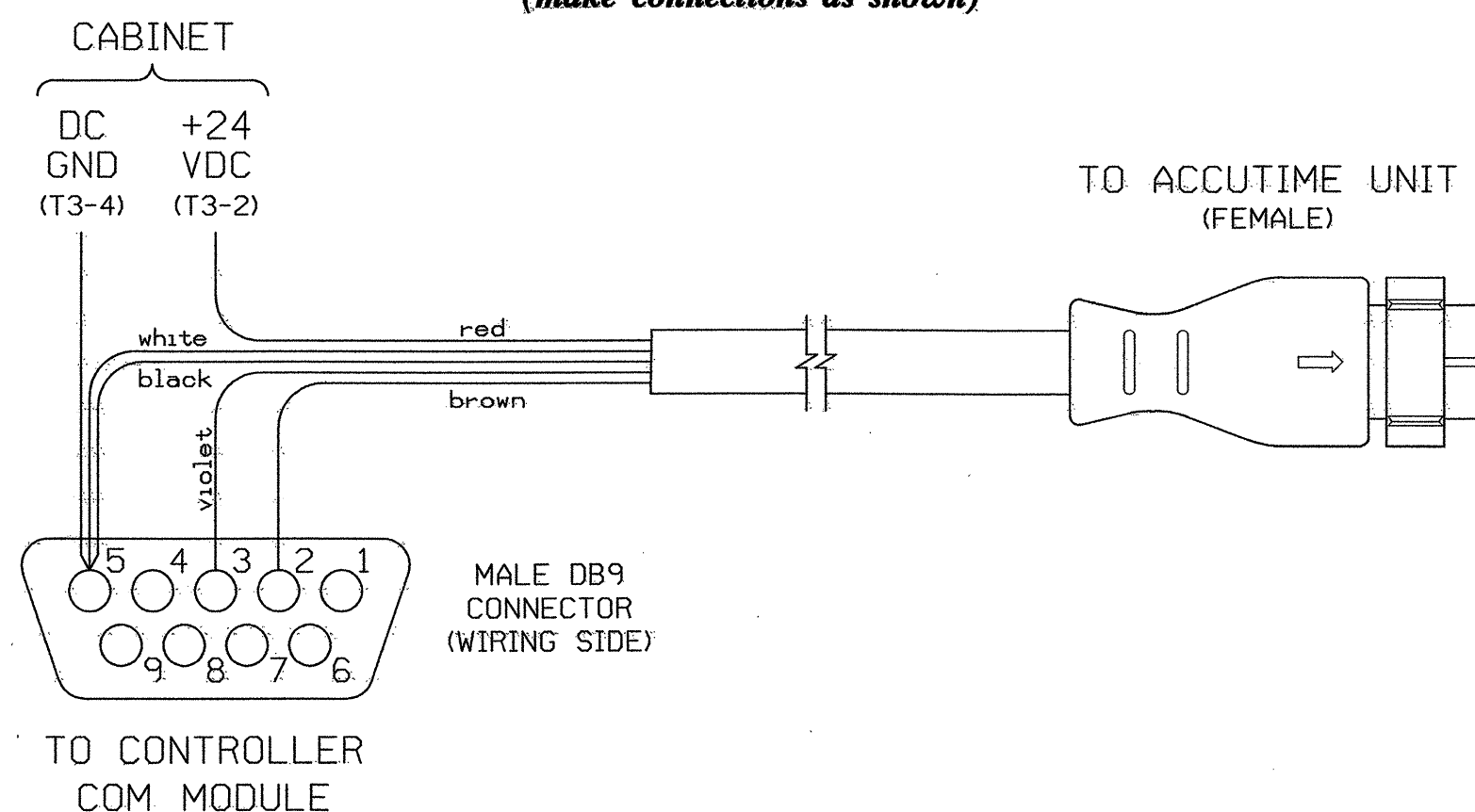
IMPORTANT!

MAKE SURE AC ISOLATOR INSERTED IN J14L IS SET FOR INVERTED INPUT.

LAMP NOTES

- IN ORDER FOR PILOT LAMP IN RESCUE SQUAD HOUSE TO FUNCTION, MAKE THE FOLLOWING PROGRAMMING CHANGES TO OUTPUT NO. 33.
- CHANGE THE FUNCTION OF C1 PIN 35 TO BE AN OUTPUT FOR PREEMPT 2. THIS IS ACCOMPLISHED BY THE FOLLOWING:
 - FROM MAIN MENU SELECT 6 (OUTPUTS). THEN SELECT 1 (OUTPUT ASSIGNMENTS).
 - SCROLL TO C1 PIN 35, OUTPUT NO. 33. YOU WILL SEE THAT IT IS NOT ENABLED.
 - SCROLL DOWN TO PREEMPT AND INPUT *YES*. YOU WILL BE ASKED FOR A PREEMPT NO. ENTER A '2' HERE.
 - THE OUTPUT IS NOW ASSIGNED FOR PRE-2 OUTPUT.
 - IF TERMINAL 114 HAS A CONFLICT MONITOR WIRE CONNECTED, REMOVE, TAPE AND LABEL WIRE.
 - MAKE SURE LOAD RESISTORS ARE IN PLACE AS SHOWN IN LOAD RESISTOR INSTALLATION DETAIL ON PAGE 1.
 - INSERT LOADSWITCH FOR S2P.

CONNECTOR WIRING DETAIL FOR ACCUTIME 2000 WITH RS232 INTERFACE
(make connections as shown)



SIGNAL DESCRIPTION	12 CONDUCTOR CABLE COLOR	ACCUTIME CONNECTION	DB9 TO CONTROLLER	CABINET CONNECTION
DC POWER	RED	PIN 1		T3-2
PORT B: RECEIVE	VIOLET	PIN 2	PIN 3	
PORT B: TRANSMIT	BROWN	PIN 4	PIN 2	
PORT A: RECEIVE	WHITE	PIN 6	PIN 5	
DC GROUND	BLACK	PIN 9	PIN 5	T3-4

NOTE: ALL OTHER WIRES IN THE ACCUWAVE CABLE ARE UNUSED AND SHOULD BE TIED OFF.

THE COM PORT USED BY THE ACCUTIME UNIT NEEDS TO BE CONFIGURED IN THE OASIS SOFTWARE USING THE SETTING BELOW:

- * TRIMBLE TSIP GPS PROTOCOL
- * 9600 BAUD
- * 8 DATA BITS
- * 1 STOP BIT
- * ODD PARITY

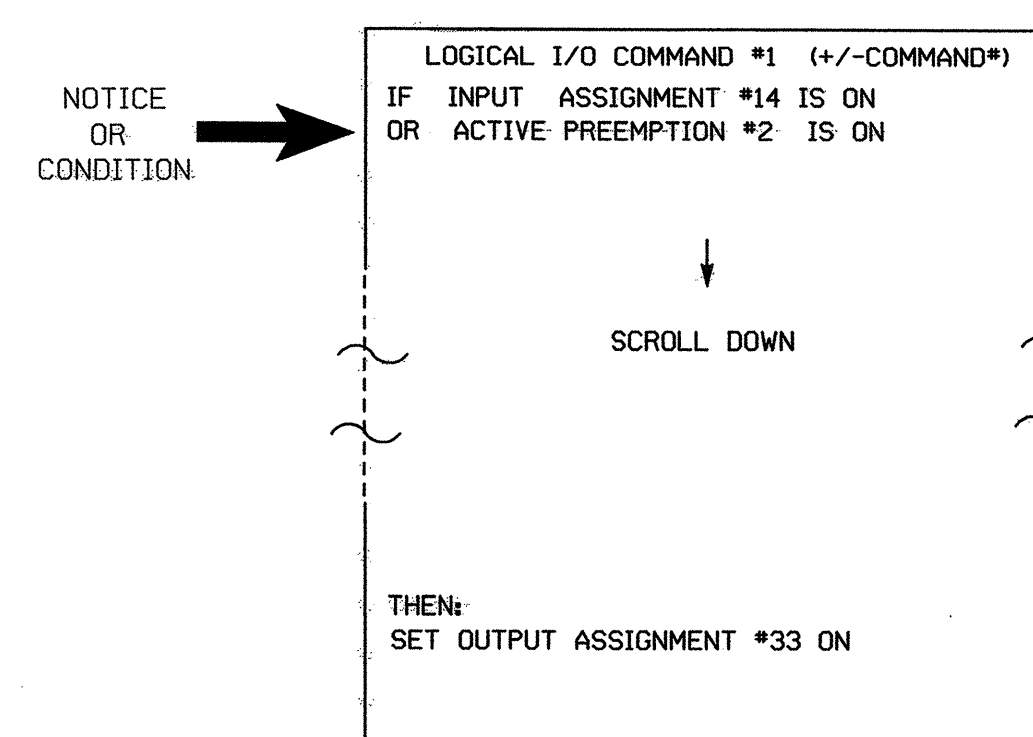
PROGRAMING LOGICAL I/O PROCESSOR DETAIL

NOTE

WHEN PREEMPT DELAY TIMER IS IN USE STEP 1 SHOWN BELOW IS NECESSARY TO ENSURE PILOT LAMP IN RESCUE SQUAD HOUSE WILL ACTIVATE IMMEDIATELY AFTER PUSH BUTTON IS DEPRESSED :

STEP 1

FROM MAIN MENU; ENTER 6 (OUTPUTS). THEN SELECT 3 (LOGICAL I/O PROCESSOR).

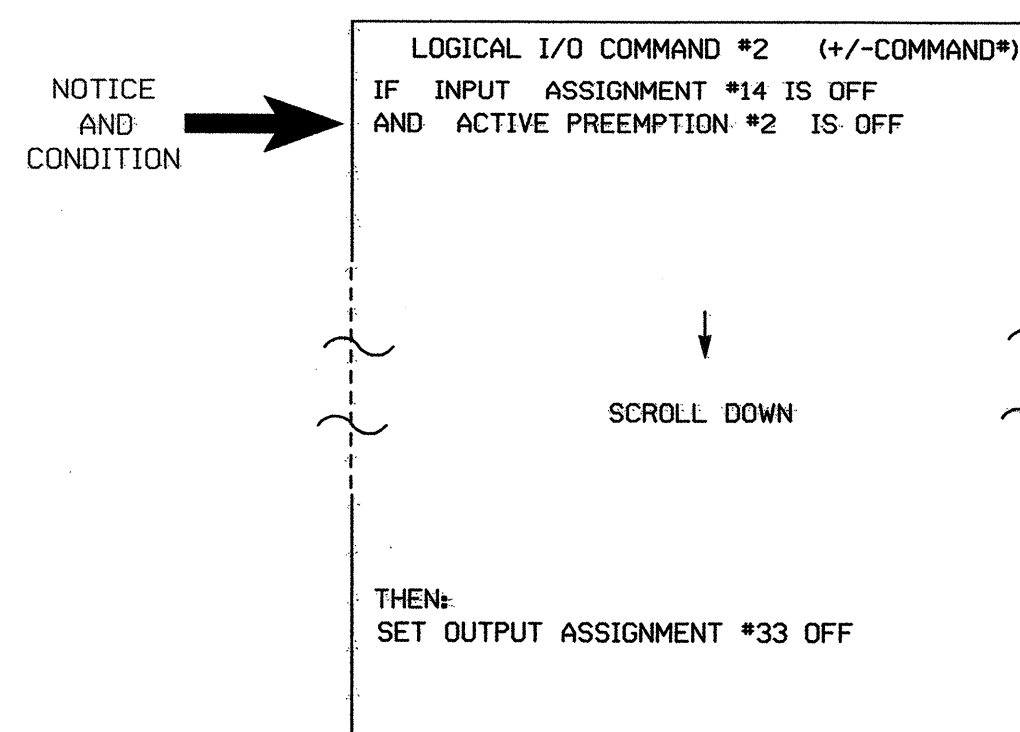


STEP 2

NOTE

IN ORDER FOR PILOT LAMP IN SQUAD HOUSE TO DEACTIVATE IMMEDIATELY AFTER ENDING PREEMPTION, PROGRAM THE FOLLOWING:

TOGGLE THE + BUTTON ONCE TO ACCESS LOGICAL I/O COMMAND #2.



STEP 3

FROM MAIN MENU PRESS '2' (PHASE CONTROL), THEN '1' (PHASE CONTROL FUNCTIONS). SCROLL TO THE BOTTOM OF THE MENU AND ENABLE LOGICAL PROCESSOR (ACT LOGIC 1-16) BY FLAGGING #1 AND #2.

END OF PROGRAM.

EMERGENCY VEHICLE PREEMPTION PROGRAMMING DETAIL

(program controller as shown below)

FROM MAIN MENU PRESS 'A' (PREEMPTION), THEN '1' (STANDARD PREEMPTIONS). PRESS THE "NEXT" KEY TO ADVANCE TO PREEMPT 2.

PREEMPTION #2	INTERVAL/TIMING	SETTINGS (NEXT:1-10)	CLEAR/DWELL PHASES
1	255 4.0 2.0	X	12345678910111213141516
2	0 0.0 0.0		
3	0 0.0 0.0		
4	0 0.0 0.0		
5	1 0.0 0.0		

EXIT CALLS

OPTIONS

PRIORITY (Y/N TO SELECT)MED

DELAY TIMER (0-255 SEC)*

MIN GREEN BEFORE PRE (0= DEFAULT)....1

PED CLEAR BEFORE PRE (0= DEFAULT)....0

YELLOW CLEAR BEFORE PRE (0= DEFAULT)....4.7

RED CLEAR BEFORE PRE (0= DEFAULT)....3.0

DWELL MIN TIMER (0-255 SEC)*

DWELL MAX TIMER (0-OFF, 1-255MIN)0

DWELL HOLD-OVER TIMER (0-255)0

LATCH CALL?Y

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?Y

OVERLAPS: ABCDEFGHIJKLMNOP

DWELL INT FLASH YELLOW

OMIT OVERLAPS:

* DENOTES TIMING TO BE DETERMINED IN FIELD.

THIS ELECTRICAL DETAIL IS FOR THE SIGNAL DESIGN: 03-0884T1
DESIGNED: SEPTEMBER 2003
SEALED: 1/7/2004
REVISED: TBD

SIGNAL UPGRADE TEMPORARY DESIGN 1 CONSTRUCTION PHASE I PAGE 2 OF 2

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ELECTRICAL AND PROGRAMMING DETAILS FOR:
Prepared for the Offices of:
North Carolina State University
Department of Transportation
Signal Management Section
122 N. McDowell St., Raleigh, NC 27603

SR 1409 (MILITARY CUTOFF ROAD)
AT
SR 2048 (GORDON ROAD) AND
(OGDEN RESCUE SQUAD)
DIVISION 03 NEW HANOVER COUNTY WILMINGTON
PLAN DATE: NOVEMBER 2003 REVIEWED BY: J O DEATON
PREPARED BY: M W YALCH REVIEWED BY:
REVISIONS INIT. DATE

SEAL
NORTH CAROLINA
PROFESSIONAL
SEAL
07438
ENGINEER
JAMES O. DEATON
DATE: 1/14/04
SIGNATURE: [Signature]
DATE: [Date]
SIG. INVENTORY NO. 03-0884T1