



FIELD CALIBRATION PROCEDURE

SIDELIGHT ALARM CALIBRATION IS REQUIRED FOR PROPER OPERATION OF THE SIDELIGHT ALARM CIRCUIT. NOTE: RED LEDS INDICATE ALARM CONDITIONS, GREEN LEDS INDICATE SYSTEM OK.

- 1) FLIP S8 TO THE ON POSITION (S1, 2, 3, 5, 6, & 7 DOWN).
- 2) D22 SHOULD NOW BE ON TO INDICATE TOWER LIGHTS ARE ON, AND D20 SHOULD BE FLASHING.
- 3) FOR THE UPPER SIDELIGHTS, ROTATE R6 CW AS VIEWED FROM THE TOP UNTIL RED LED D5 COMES ON. (THE SIDELIGHT CIRCUIT MUST HAVE 2-0B116W'S TO CLEAR THE ALARM, AND WILL WORK WITH UP TO 6-0B116W'S.) SLOWLY ROTATE R6 CCW UNTIL THE RED D5 GOES OFF AND THE GREEN D4 COMES ON. FLIP S1 UP TO SIMULATE A SIDELIGHT FAILURE AND WATCH FOR D4 TO TURN OFF AND D5 TO COME ON. NOTE THE TIME DELAY FROM ON TO OFF AND VICE VERSA. CONTINUE TO ROTATE R6 WHILE FLIPPING S1 UNTIL THE TIME DELAY APPEARS EQUAL FROM ON TO OFF AND VICE VERSA. RETURN S1 TO THE DOWN POSITION. REPEAT THE ABOVE PROCEDURE FOR THE LOWER SIDELIGHTS USING R102 AND S6, D37 AND D39.

FIELD TEST PROCEDURE

SIDELIGHT LAMP OUT

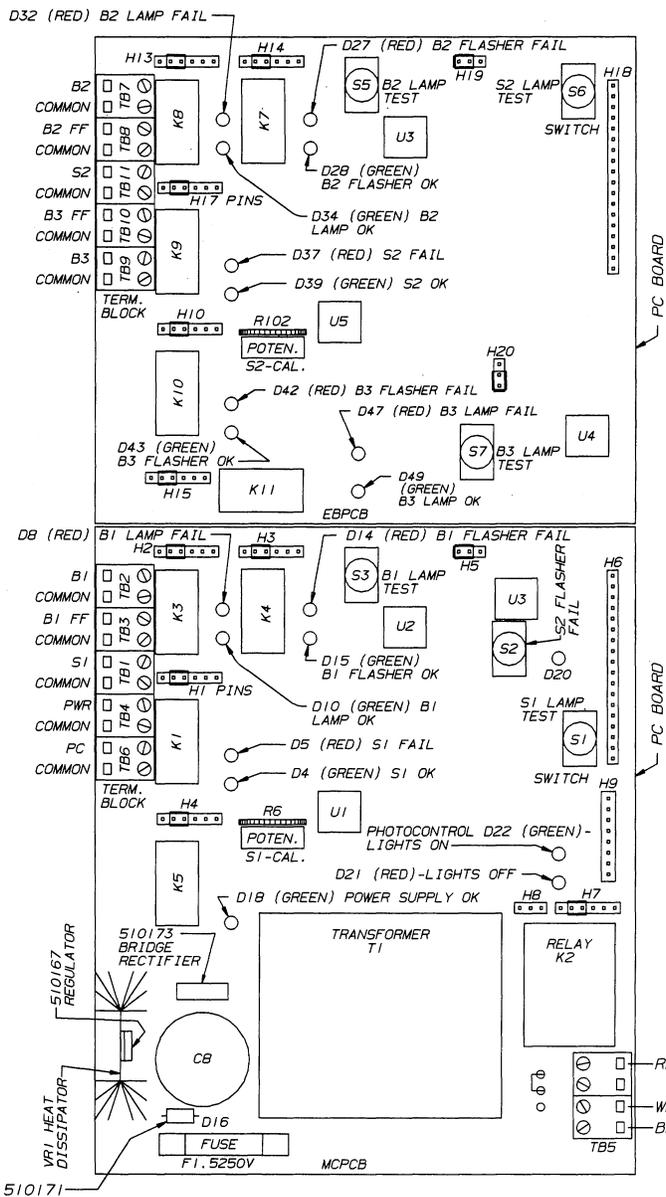
- 1) TEST SIDELIGHT CIRCUIT PER ABOVE CALIBRATION PROCEDURE.

BEACON LAMP OUT (B1)

- 1) FLIP S8 TO THE ON POSITION.
 - 2) WITH S3 DOWN AND 2-GOOD B620W LAMPS IN THE BEACON, THE GREEN LED D10 SHOULD BE ON.
 - 3) FLIP S3 UP TO SIMULATE A BAD BEACON LAMP.
 - 4) AFTER A SHORT DELAY THE GREEN LED D10 SHOULD GO OFF AND THE RED LED D8 SHOULD COME ON INDICATING AN ALARM CONDITION.
 - 5) FLIP S3 DOWN, AND THE GREEN LED D10 SHOULD COME BACK ON AND THE RED LED D8 SHOULD GO OFF. REPEAT THE ABOVE PROCEDURE FOR B2 AND B3 USING S5, D32, D34 FOR B2 AND S7, D47 AND D49 FOR B3.
- TEST COMPLETE.

FLASHER FAIL TEST

- 1) S8 IS STILL IN THE ON POSITION.
- 2) NOTE THAT D20 IS FLASHING AND WHEN S2 IS FLIPPED UP D20 GOES OUT. THE FLASHER HAS NOW STOPPED AND AFTER A SHORT DELAY THE GREEN LED D15 SHOULD GO OFF, AND THE RED LED D14 SHOULD COME ON INDICATING A FLASHER FAIL ALARM FOR B1. RELAY K14 WILL ALSO DE-ENERGIZE AND TURN THE B1 BEACON ON STEADY. ALSO NOTE THAT GREEN D28 AND D43 TURN OFF AND RED D27 AND D42 TURN ON INDICATING B2 AND B3 HAVE STOPPED FLASHING. K15 (FOR B2) AND K16 (FOR B3) WILL DE-ENERGIZE AND TURN BOTH BEACONS ON STEADY. TO RESET THE ALARM, FLIP S8 TO THE OFF POSITION AND FLIP S2 BACK TO THE DOWN POSITION. RETURN S8 TO THE PEC POSITION TO RESUME NORMAL OPERATION. TEST COMPLETE.



APPLICATION NOTES

- 1) PRIOR TO ACTIVATING THE CONTROL, VERIFY THE TOWER WIRING IS CORRECT BY DIRECTLY CONNECTING EACH CIRCUIT TO THE INPUT POWER WIRING. THIS WILL ALSO SHOW ANY SHORTS THAT MAY BE ON THE TOWER.
- 2) CURRENT REQUIREMENTS ARE AS FOLLOWS. THIS MAY BE CHECKED WITH A CLAMP ON AMMETER.
 - A. B1, B2 & B3 WILL EACH PULL APPROXIMATELY 10A EACH. IF ANY BEACON CIRCUIT ONLY DRAWS 5 AMPS, THEN 1 OF THE 2-B620W LAMPS IS BURNED OUT. A CURRENT DRAW HIGHER THAN 10 AMPS PER CIRCUIT INDICATES A SHORT OR IMPROPER TOWER WIRING.
 - B. S1 AND S2 SHOULD EACH DRAW APPROXIMATELY 3 AMPS EACH. REPAIR ANY TOWER OR LAMP PROBLEMS BEFORE WIRING THE CONTROL INTO THE CIRCUIT.
- 3) IF THE CONTROL HAS BEEN OPERATING CORRECTLY AND THEN INDICATES A BEACON LAMP ALARM, THERE IS A SIMPLE CHECK THAT CAN BE MADE TO DETERMINE IF THE PROBLEM IS IN THE CONTROL OR ON THE TOWER, IF A CLAMP ON AMMETER IS NOT AVAILABLE.
 - A. SWITCH S8 TO THE ON POSITION. IF B1 SHOWS A BAD BEACON LAMP (D8 ON), MOVE THE JUMPER ON H5 ONE POSITION TO THE RIGHT. IF THE ALARM CLEARS (D10 ON) THEN ONE LAMP IS BURNED OUT. IF IT DOES NOT CLEAR, THEN EITHER BOTH LAMPS ARE BAD, OR THERE IS A PROBLEM IN THE CONTROL. REPEAT THE ABOVE PROCEDURE FOR B2 USING H19 & B3 USING H20.
 - B. TO DETERMINE IF BOTH BEACON LAMPS ARE BAD, REMOVE ALL POWER FROM THE CONTROL AND MEASURE ACROSS EACH LAMP CIRCUIT WITH AN OHMMETER, ON LOW OHMS SCALE (B1 TO N, B2 TO N, ETC.). ABOUT 10 OHMS OR LESS INDICATES A GOOD LAMP IN THE CIRCUIT. AN OPEN READING OR INFINITY INDICATES THERE ARE NO GOOD LAMPS IN THAT CIRCUIT.
 - C. WITH THE POWER STILL OFF, TO CHECK FOR A SHORTED SOLID STATE RELAY, MEASURE ACROSS TERMINALS #1 AND 2 OF RELAYS K5-(B1), K12-(B2) AND K13-(B3). A SHORT OR ZERO OHMS INDICATES A BAD SOLID STATE RELAY OR SUPPRESSOR. PULL ONE LEG OF THE SUPPRESSOR TO DETERMINE WHICH ONE IS BAD. IF ADDITIONAL INFORMATION IS NEEDED, CONTACT THE ROHN LIGHTING DEPARTMENT FOR TECHNICAL ASSISTANCE.

No.	Revision	Description	Date	Rev By	Ckd By	Appd By
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