



1.Remove (4) ¼-20 nuts with 7/16" wrench & remove arm.

TECHNICAL BULLETIN - **#A050506** SUBJECT: SENTINEL CROSSING ARM MODULE INSTALLATION INSTRUCTIONS Effective Date: 5/29/06 Revised Date: 7/31/06



3.Open hinge to 90° or past for access to unit.

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4. Remove $\frac{1}{2}$ -20 nut @ bottom of hinge w/ $\frac{3}{4}$ " wrench. Discard it.



5. Remove screws from both ends of cover w/ 5/16" wrench.



2. Cut seal at both

ends of cover.

6. Remove cover and set aside.



7. Inside view of control box.



8. Tap hinge pin into box from bottom.



9. Remove hinge pin. Discard.



bottom spring clip & remove. Hinge may be shimmed for easier access.



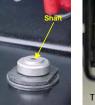
11. Remove plastic bushing w/tab from inside. Discard



12. Install new ¾" SST washer & plastic bushing inside box.



13. Install new spring clip in plastic bushing groove.



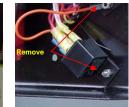
14. Close-up of shaft, bushing & washer installed.



hinge pin) w/timing mark oriented hinge pin) w/timing mark oriented the same direction as hinge. (Ex.: If hinge is opened to 90° timing mark should be pointing away from the side of bus.



16. Install new ½-20 hex lock nut.



17. Remove 10-32 nuts on both relays. Discard nuts. Slide relay's off studs.

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18. Disconnect -double red, single red & double white from lower relay; -double blue/green & black from upper relay.



22. Area below motor where sentinel module will be installed.

29. Replace cover.



double red, short white from double white & short green from double blue/green.



23. Hold motor wires. Insert module assembly at an angle to clear motor.

Leave these JNSEALED

30. Re-install screws at both ends. Re-

seal w/black silicone leaving bottom & 1/2" on bottom side open for drainage.



20. Remove yellow, brown & green from rear micro-switch; yellow & red from front switch. Discard relays.



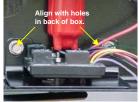
24. Set module on shaft - rotate bushing as reqd for module to set evenly. Align w/holes in box. (Drill 9/32 hole if mntg. brkt. interferes.)



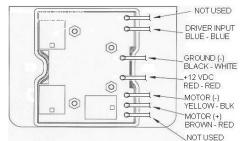
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21. Cut black wire from heater in micro-switch assy at end of shrink-wrap. Discard. Tape end of yellow wire from bus.



25. Attach module with 1/4-20 screws, flat & lock washers and hex nuts included in kit.



26. Wiring schematic. View looking down on top of module. (Left is passenger side of bus, bottom is front of bus)

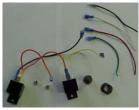


& in schematic #26. Tape each lead connection to insulate male tab on module leads. Tape end of yellow wire from bus to insulate & tie back.

31. Re-attach arm.



28. Tie wires. View of completed internal installation. Note: Purple & green wires from module not used - insulate & tie with other wires -do not remove female terminals installed on ends.



32. Items to be discarded.

33. Test the crossing arm assembly to make sure it functions correctly. If further help is needed, contact the engineering department at Specialty Manufacturing.

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