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Coding Information

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Title: Bus Door Adjustment procedure for Electric and Air**Applies To: BE, CE, and RE Bus Models Built 9/15/11 or later****DESCRIPTION**

Adjustment procedure for:

Electric Operated Doors built 11/14/2011 and later
 Air Operated Bus Doors built 9/15/2011 and later

SYMPTOMS

- **Electric Door** - motor failures, water leaks, header box fit, bent adjustment rods, poor link arm clearance
- **Air Door** - doors blow open at highway speeds/high cross winds, poor closing force, water leaks, header box fit, poor link arm clearance, poor vandal lock operation, bent adjustment rods

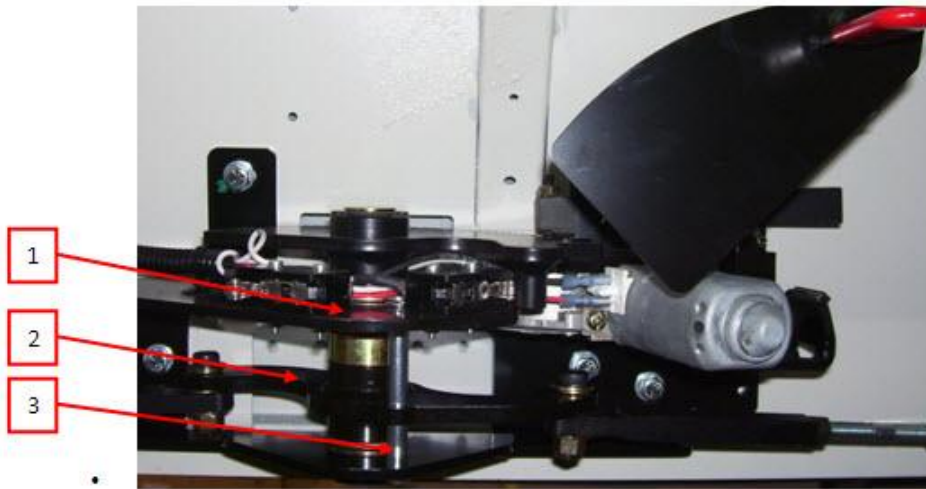
RESOLUTION

Electric Door

- **Power OFF**
- **Door Closed**
 - Gear plate to base assembly should be positioned near the mechanical stop.
 - Base assembly closed alignment holes should be closely aligned allowing a 3/8" pin to be installed through the base assembly components.

NOTE:

Installation of the 3/8" pin is typically not required unless the door actuator assembly is being replaced requiring initial tie-bar adjustment. After final adjustment, the alignment holes will not be perfectly aligned.



- 1) Base Assembly
- 2) "S" Cam
- 3) 3/8" pin

- Adjust closed micro switch outward to allow addition travel if required to gain travel toward the mechanical stop.



- 1) Open Micro Switch
- 2) Closed Mechanical Stop
- 3) Closed Micro Switch

- **Door Open**

- Gear plate to base assembly should be positioned near the mechanical stop.
- Adjust open micro switch outward to allow addition travel if required to gain travel toward the mechanical stop.

NOTE:

If the open or closed position referenced above is not achieved, loosening of the tie-bars or adjustment of the cylinder may be required.

- **Power ON**
- **Door Closed**
 - Adjust aft door tie-bar to position aft door parallel to the upper door casing. Upper door casing seal should be compressed evenly across the aft door surface.
 - Adjust forward door tie-bar to position forward door parallel to the upper casing. Upper door casing seal should be compressed evenly across the forward door surface.



1) Tie-Bar Assembly (Forward Shown)

- Adjust closed micro switch. Micro switch position should disengage power to the motor as the door achieves the full closed position.
- **Door Open**
 - Adjust open micro switch. Micro switch position should disengage power to the motor as the door achieves the full open position.
 - Verify door achieves 85 to 90 degree opening.
- Cycle door to confirm open and closed position is repeated and that no air gaps are seen.
- Install a test light on the motor or use a digital multi meter to confirm the open and close micro switch is disengaging power to the motor in the open and closed position. Test light should only be ON as the door is in transition.

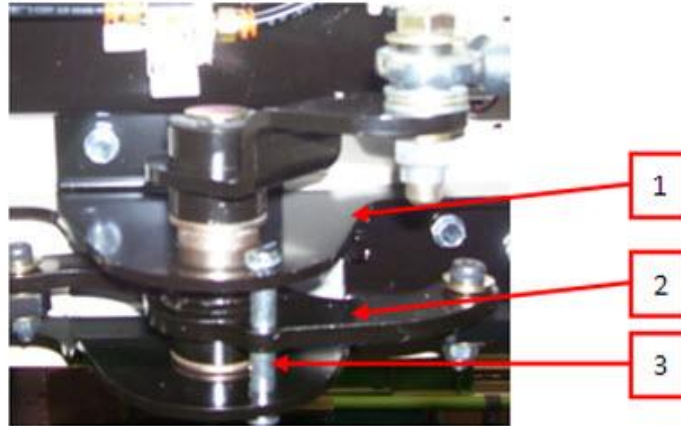
Air Door

- **Power OFF**
- **Door Closed**

- Base assembly closed alignment holes should be closely aligned allowing a 3/8" pin to be installed through the base assembly components.

NOTE:

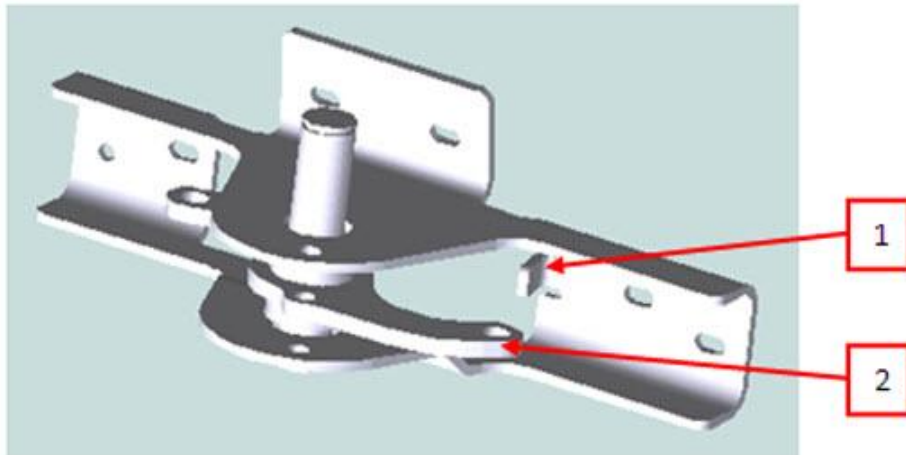
Installation of the 3/8" pin is typically not required unless the door actuator assembly is being replaced requiring initial tie-bar adjustment. After final adjustment, the alignment holes will not be perfectly aligned.



- 1) Base Assembly
- 2) "S" Cam
- 3) 3/8" pin

- **Door Open**

- "S" cam should be positioned near the base assembly mechanical stop.



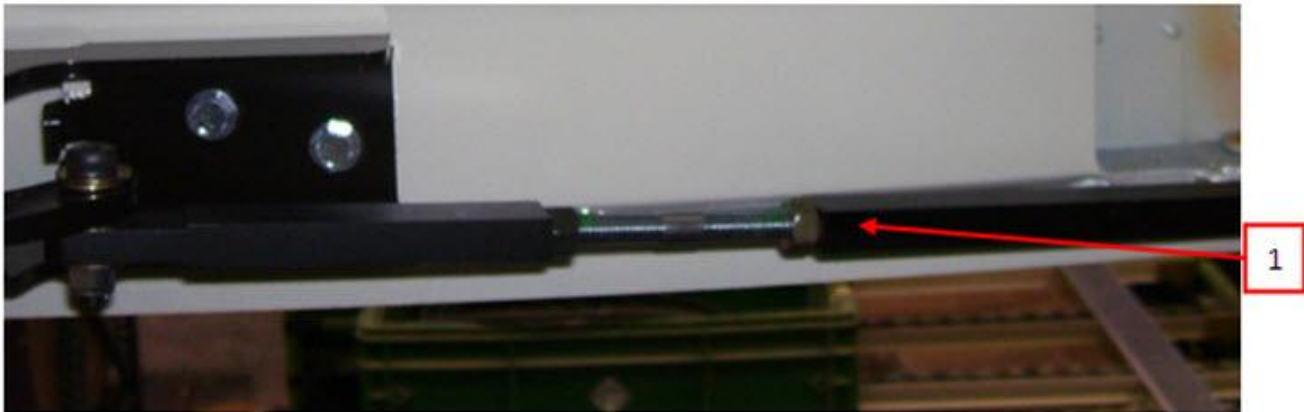
- 1) Base assembly mechanical stop
- 2) "S" Cam

NOTE:

If the open or closed position referenced above is not achieved, loosening of the tie-bars or adjustment of the cylinder may be required.

- **Power ON**
- **Door Closed**

- Adjust aft door tie-bar to position aft door parallel to the upper door casing. Upper door casing seal should be compressed evenly across the aft door surface.
- Adjust forward door tie-bar to position forward door parallel to the upper casing. Upper door casing seal should be compressed evenly across the forward door surface.



1) Tie-Bar Assembly (Aft Shown)

- **Door Open**
 - Verify door achieves 85 to 90 degree opening.
 - Cycle door to confirm open and closed position is repeated and that no air gaps are seen.

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