



## Micro Bird Entrance Door Adjustment Procedure

### Tech Tip #24-0308



### Adjustment May Be Needed After Unit Is In Service

We have found that after being in service for a time that there may be wind noise coming from around the entrance door and when pressure is applied to the forward leaf it is not tight to the rear leaf. When looking into the issue we have found that properly adjusting the entrance door will address the issue.

We believe that as the doors are operated, the gears of the motor and system “relax” some and “mesh” closer which creates this play and properly adjusting the door at this point allows the door to seal correctly.

Attached please find the most current procedure for adjusting entrance door operation.

ALL of our Service Updates can be found on the [New York Bus Sales website](#)  
Or at the [New York Head Mechanic website](#)

## PLANNING

### Description

The following adjustment procedure is valid for all Micro Bird buses equipped with an electric service door.

**Manpower** Labor: 21 minutes (0.35 hour)

**Note:** *It is recommended to read the entire procedure before performing repairs.*

**Note:** *The repair explained in this document must be performed according to professionally accepted standards.*

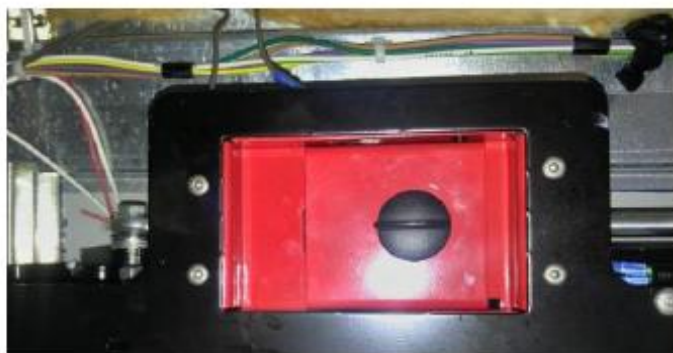
### TOOLING REQUIRED

Qty	Description
1	9/16 wrench
1	9/16 crowfoot wrench
1	Phillips's screwdriver
1	10in length wrench extension
1	3/8 in drive wrench
1	Vise grip
1	6" carpenter square



## PROCEDURE

**Warning:** If the vehicle is equipped with an outside service door emergency handle (Option EDER) make sure that the lock (Option I70) is deactivated (see picture below for reference) before adjusting the service door.



**Step 1:** While standing outside the bus, make sure the service door rubber seals are installed correctly as shown on these pictures.



Large rubber seal on right (front) door leaf. Flat side out.

Small rubber on the left (rear) door leaf.

**Step 2:** Carefully remove the head pad above the service door. Make sure to safely keep the removed cover caps and screws since you will need them to reinstall the head pad.



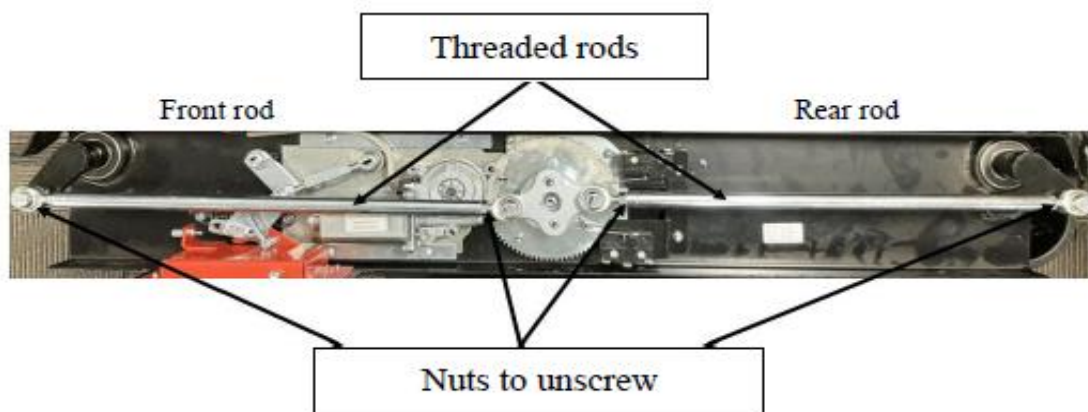
**Step 3: Verify that the pivot orientation is correct.**

**Note:** Although verification of pivot orientation can be done visually, we recommend that you use a 6-inch carpenter square for this step.

1. Release tension on the threaded rods by pulling the emergency release located above the service door.

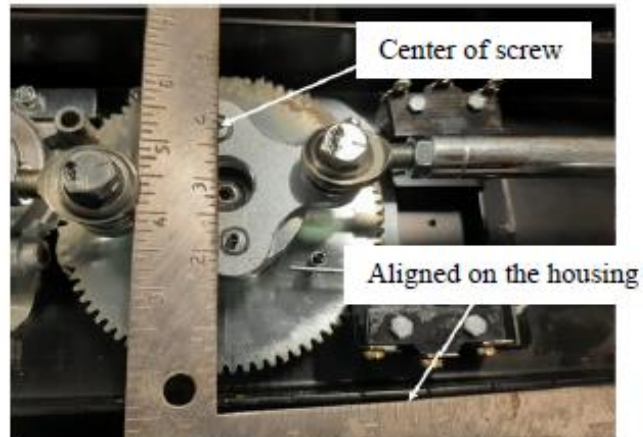


2. Unscrew the four (4) nuts at the ends of the rods. You could use the crowfoot wrench extension.



3. Give the front treaded rod eight (8) full turns clockwise (toward you) and four (4) to the rear one. The door should normally open a little more.
4. Engage the service door emergency release, and then open and close the service door using the console switch. At this point, it is normal the door remains slightly opened.

5. Press one side of the square along the inside of the cabinet. Align the other end with the center of the top pivot screw (located nearest the outside wall of the bus) as shown below.



6. If the pivot is oriented correctly, the bottom screw is slightly skewed to the right as shown below.



The following figures illustrate situations where the pivot is not oriented properly.



7. If the pivot is correctly oriented, open and close the door using the console switch. Verify that the stepwell and ceiling lights turn off when the door closes. Go to Step 5.
8. If the pivot is not correctly oriented, continue to Step 4.

#### Step 4: Door pivot adjustment

1. Make sure that the door panels do not touch the doorstep. If the door is still pressing the frame, give some more clockwise turns (toward you) on both rods. Verify and repeat in case there is still contact between a door panel and the steps.
2. Open and close the door using the console switch. Verify the orientation of pivot as per Step 3.
3. If the pivot is not oriented correctly, hold the tab and bend its end slightly away from you as shown below.



4. Open and close the door using the console switch. Verify the orientation of the pivot. If the orientation is correct, proceed to the door adjustment. Otherwise, repeat Point 3 until the pivot is oriented correctly.

**From this point on, since the pivot should be oriented correctly, only the rods may be used to adjust the service door panels.**

**The tab must remain in the position determined in Step 4.**

#### Step 5: Door rods adjustment

1. With the door opened, pull out one end of the upper seal to completely free the center of the top doorframe, as shown on next picture. Be careful, the upper seal is fixed with sealant at both ends.



2. Use the console switch to close the door. Make sure that the door panels do not touch the doorstep nor top frame. If the door is still pressing the frame, give some more

clockwise turns (toward you) on both rods, making sure that they have received the same number of turns. Verify and repeat in case there is still contact.

3. With the door closed, start adjusting the rear door panel by turning the rear rod outward (away from you) until the top of the panel is  $\frac{3}{16}$  inches from the top frame. You could use a  $\frac{3}{16}$ in shim to help or measure regularly using a ruler. It might help to use vise grip pliers to turn the rod.



4. Open the door using the console switch and reinstall the upper seal.
5. Close the door using the console switch.
6. Proceed with the front rod, using pliers to rotate. Turn it outward (away from you) until the top of the front panel rubber seal touches firmly the rubber seal of the rear panel until there is no visible gap between the two panels rubber seals.



7. Open and close the door to validate that the panels do not touch or block each other when closing. If they touch each other, open the door half-course to loosen tension on the rods and turn the front door panel rod outward a quarter of a turn. Repeat until the door panels do not touch or get stuck while closing.
8. When the door is completely shut, the stepwell light should turn off. If it is not the case, repeat from beginning of Step 5.



Stepwell light



### Step 6: Testing service door emergency release

1. Open and close the door using the console switch.
2. Pull the service door emergency release, applying regular and moderate force. Applied force should not exceed 10 pounds. DO NOT give a sudden jerk on the handle, it is not necessary and may damage the system on the long run.
3. Make sure the door mechanism properly disengages and the door cracks open.

### Step 7: Tightening the rods and re-assembly

1. Make sure the service door emergency release is in the closed position and close the doors with the console switch.
2. Tighten the four (4) lock nuts at the ends of the rods, retaining the rod with the pliers so they do not turn. Once the lock nut is in contact with the rods, give an additional 1/4 turn.



3. Reinstall the head pad.

# CONTACT ANY OF OUR SERVICE LOCATIONS WITH QUESTIONS

**Director of Service  
Ryan Hemund**

[rhemund@newyorkbussales.com](mailto:rhemund@newyorkbussales.com)

**Chittenango: 800-962-5768**

Brian Lamaitis

[blamaitis@newyorkbussales.com](mailto:blamaitis@newyorkbussales.com)

Bob Reith

[breith@newyorkbussales.com](mailto:breith@newyorkbussales.com)

Phil Tucker

[ptucker@newyorkbussales.com](mailto:ptucker@newyorkbussales.com)

**Albany: 866-867-1100**

Ben Reiling

[breiling@newyorkbussales.com](mailto:breiling@newyorkbussales.com)

**Batavia: 800-463-3232**

Keetah Wallace

[kwallace@newyorkbussales.com](mailto:kwallace@newyorkbussales.com)

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