



Micro Bird 32" G5 Entrance Door Updates

Sales Update #18-1211



Changes Have Been Made and Are In Production

In an effort to address concerns of wind noise, doors opening while in operation and motor reliability with the entrance doors of units in service, Micro Bird has designed a more robust door mechanism which went into production on November 15, 2018.

These changes are noted in the following document.

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ENGINEERING CHANGE NOTICE

Subject: Optimized G5 32in Entrance Door Mechanism

In order to address concerns of water infiltration, wind noise, doors opening during bus operation and motor reliability, we have updated the G5 32in entrance door mechanism.

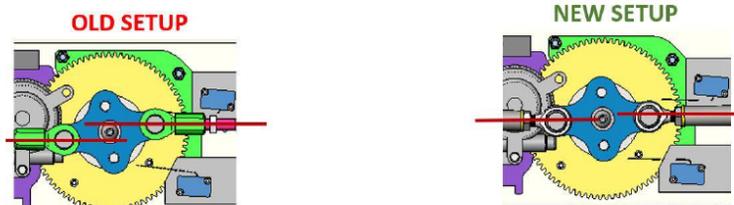
Our new design strengthens the center gear pushrods and base plate. This new design will allow retrofit of previous models if necessary.

The new position of the pushrods applies less static load on the motor to maintain the doors closed. It also prevents the motor from turning backwards once doors are closed.

Production starts November 15th 2018*

Our new DOD mechanism changes:

IMPROVED PUSHRODS ADJUSTMENT



Stronger clamping force on doors
Reduced load on motor for better durability
Better repeatability procedure for the production line

LARGER & STRONGER PUSHRODS

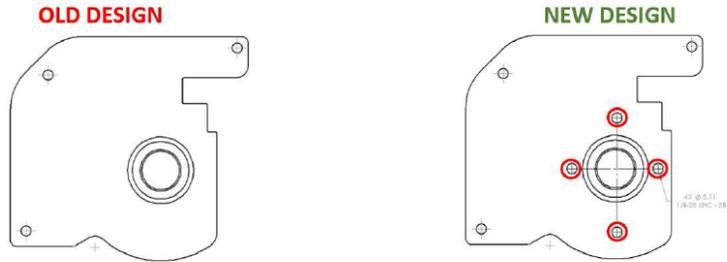


Less deflection of pushrods resulting in a better seal of doors

Micro Bird Inc., 3000 Girardin, Drummondville, Québec, J2E 0A1

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STIFFER BASE PLATE BY ADDING ATTACHMENT BOLTS



Reduced deflection of baseplate resulting in improved sealing of doors

BETTER QUALITY PARTS

OLD PARTS



CORRECTIVE ACTIONS

- Increase supplier quality audits
- Inspection of production batch samples
- Repair parts at Production facility to replace out of spec parts

Increase reliability
Reduce Maintenance / Downtime

This solution has been validated on our accelerated bench test and with a City bus application without failure. This process increases our confidence in this improved entrance door mechanism.



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Engineering Project Manager



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Engineering director

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