



May 3, 2019  
Team BFT,

I'm excited to announce that a brand new **ELECTRIC BUS** has arrived at BFT for testing on routes over the next few weeks!

We have begun operating the electric bus today, May 3 on Route 42. On May 4 it will operate on Route 225, May 6 on 63D, May 7 on Route 160, and on our other routes over the next three weeks. [View the full schedule of routes.](#)



Currently, there is no added equipment on the bus (fare box, radio, CAD/AVL system, MDT, etc.) except for a bike rack for customers to use. There will not be a fare box in the bus during testing. Its Operator will have to use a handheld radio and make P/A announcements, and it will not appear on MyRide, but we want to try to get a feel for how it would perform in real working conditions.

We're looking into the future, which includes the possibility of vehicles with alternative fuel sources. Over the next few months, we will be discussing alternative fuel strategies with our Board of Directors.

Here are a few more details about the bus we have on site:

#### **Electrical Specs**

The 40-foot BYD K9 Transit Model Bus is equipped with two AC synchronous 150 kw motors. Electrical power is derived from an Iron Phosphate 324kw/h battery pack, with a range of 160-180 miles per charge. Recharging the bus is done with a stationary charger delivering 80 kwh of charge to the bus with a recharge time of two to three hours.



#### **Cost Savings**

The base price for this particular electric bus is \$700,000, and would cost an additional \$70,000 to bring it up to equipment standards with our fleet. The total cost of ownership and operation of this bus over a 15-year period would be \$1,420,386, which is \$219,570 less than a Diesel bus. If our whole bus fleet was electric, we would save almost \$14 million over 15 years.

Please watch for it out on the system. We would love to get your feedback on it!

Gloria