

# FLORIDA DEPARTMENT OF TRANSPORTATION

## PARK BRAKE TEST PROCEDURE

VERSION 1

*Prepared for:* The Florida Vehicle Procurement Program

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### OVERVIEW

This test is the park brake performance standard for all transit equipment purchased through Florida Vehicle Procurement Program contracts. The FDOT will test one or more vehicles from each contract within the first year of a contract agreement. If a bus fails to meet the performance test, the FDOT reserves the right to suspend placement of further orders or terminate the contract. The FDOT also reserves the right to randomly test new buses at any time during the contract period, to ensure compliance.

### TEST CONDITIONS / EQUIPMENT

The test will be performed on a 15 degree incline ramp in dry conditions. The surface angle will be verified using a Johnson Angle Locator. The test will be performed with 150 pounds in each seat position and 250 pounds in each wheelchair position to simulate the bus loaded to maximum passenger capacity.

# TEST SET-UP / PROCEDURE

1. Perform a complete system check assuring the emergency/park brakes are in proper working condition, tires are in good condition and properly inflated, minimum of ¼ tank of fuel.
2. Install and secure correct testing ballast weight in each seating and wheelchair position;
3. Verify that ramp angle is at 15 degrees;
4. Position bus on ramp in forward position (front end up);
5. Place wheel chocks two inches behind right side and left side rear tires;
6. Place indicator marks on both rear tires and ramp surface;
7. Set parking brake to the fully on position;
8. Place transmission in the neutral position;
9. Monitor and record any movement of the bus for 30 minutes;

After 30 minutes, reposition bus to be in a rearward position (front end down);  
Repeat the above procedure.

# SYSTEM TEST RESULTS

The bus will fail the test if;

- a. There is more than one inch of movement in the 30 minute time period in either position;
- b. The brakes display any signs of slippage during the test.

# INVALID TEST

The test will be deemed invalid if:

- a. Any of the specified procedure steps are not followed;
- b. Surface conditions change due to rain;