

Application Information

Emergency Brake Lever

Determine force required to engage manually operated emergency brakes on city bus fleet.

A Nidec-SHIMPO customer was looking for a simple method to accurately measure the forces required for a bus operator to manually engage the parking brake on a city bus. An engineering firm was hired to perform a detailed analysis among their varying aged fleet to determine if the forces required to operate the parking brake levers were significantly different. In order to perform an accurate analysis, they insisted the force gauge be simple to operate and have the ability to export recorded data to a PC software program for additional analysis. The Series FGV force gauge with included software met all their requirements. They fabricated and coupled a specially designed fixture to the threaded connector on the 100 lb. capacity FGV-100XY to properly simulate the human motion an operator performs to move the lever. The client was very happy with the testing and ability to review the multiple test results with the software to formulate a proper conclusion.

Equipment Used

- *FGV-100XY with Data Logging and Data Export to Included PC Software*



FGV Digital Force Gauge with Data Output