

BRAKE RATE TEST SUMMARY

LRV #

103

File Name:

103 brakerate 24-Jun-17

Date:

June 24, 2017

Emp. # 's

994

274

15 to 19.9 MPH			
Full Service		Speed (mph)	Decel. Rate (m/pps)
Dir.	Distance (ft)	Test #	
A	56.6		3.407
B	60.2		3.404
Emergency w/Dynamic Cut-Out		Speed (mph)	Decel. Rate (m/pps)
Dir.	Distance (ft)	Test #	
A	30.0		6.912
B	31.8		6.677
Full Emergency		Speed (mph)	Decel. Rate (m/pps)
Dir.	Distance (ft)	Test #	
A	17.3	29.8	7.379
B	17.9	33.0	7.134

30 to 34.9 MPH			
Full Service		Speed (mph)	Decel. Rate (m/pps)
Dir.	Distance (ft)	Test #	
A	198.8		3.529
B	212.6		3.495
Emergency w/Dynamic Cut-Out		Speed (mph)	Decel. Rate (m/pps)
Dir.	Distance (ft)	Test #	
A	114.3		6.500
B	117.5		6.363
Full Emergency		Speed (mph)	Decel. Rate (m/pps)
Dir.	Distance (ft)	Test #	
A	31.0	92.3	7.650
B	32.8	104.5	7.564

50 to 54.9 MPH			
Full Service		Speed (mph)	Decel. Rate (m/pps)
Dir.	Distance (ft)	Test #	
A	598.7		3.552
B	557.2		3.579
Emergency w/Dynamic Cut-Out		Speed (mph)	Decel. Rate (m/pps)
Dir.	Distance (ft)	Test #	
A	348.0		5.709
B	302.3		6.174
Full Emergency		Speed (mph)	Decel. Rate (m/pps)
Dir.	Distance (ft)	Test #	
A	53.3	327.6	6.371
B	51.3	296.6	6.519

INSTRUCTIONS:

- Complete the LRV Number, Date, and Clock Numbers in the appropriate boxes on the Brake Rate Summary Form and save on desktop, using file name provided.
- Note: DO NOT TYPE IN HIGHLIGHTED BOXES.
- Hang VC4000 Brake Meter on windshield facing direction of travel.
- Note: The VC4000 does not have to be level to achieve accurate results.
- Turn VC4000 power on.
- Note: An A/C power adapter cord is included in the event the VC4000's internal rechargeable battery is low in charge. A battery symbol on the "READY" screen indicates charge.
- Set "G-Threshold" calibration for Low-Speed or High-Speed Test.
 - From the "READY" screen, press "3/Tools" key.
 - Scroll down using the "down arrow" to highlight "Setup" and press "ENTER/YES" key.
 - With the "G-Threshold" highlighted, press "ENTER/YES" key.
 - Enter the "NEW" setting @ .06 for Low-Speed Tests and .1 for High-Speed Tests. Then press "ENTER/YES" key.
 - Press "CLEAR/NO" key twice to bring back the "READY" screen.
- Position and park the vehicle on level track and press "2/Braking" key to calibrate the VC4000. The user will be prompted to push the "Auto Start" key after calibration has completed.
- Press the "Auto Start" key on the VC4000. When the VC4000 displays "Auto-Start-Ready," the vehicle is ready for testing.
- Accelerate vehicle to target speed per test mode.
- Apply full brakes smoothly and without hesitation and come to a complete stop.
- Enter Speed and Distance data displayed on the VC4000 into the appropriate boxes on the Brake Rate Summary Form.
- Press "Clear" button on the VC4000 to ready for next test.
- Repeat steps 6 through 9 for each test remaining.
- Note: For testing "Dynamic Cut-Out" in the Siemens car, disconnect wire 6237 at "B" car terminal strip 214/1, terminal 63. Place D/B lever into Emergency Braking for test.
- Note: For testing "Dynamic Cut-Out" in the CAF car, once desired test speed is attained, trip the HSCB prior to placing the D/B lever into Emergency Braking for test.
- When testing is completed, save updated file to the desktop and report to Maintenance Supervisor with the results.