AUTO TEST
Products Pty Ltd®

User Manual

Version : 3.0

AutoTest

NetBrake®

E7474

RoHS COMPLIANT
2002 / 95 / EC

AUSTRALIAN MADE AND OWNED
Licence ID 10242

DECLARATION OF CONFORMITY

We, Auto*Test* Products Pty Ltd. declare under our sole responsibility that the product is in conformity with the provisions of the following Council Directive: 1999/5/EC.
A copy of the Declaration of Conformity can get it from sales@autotest.net.au.

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AutoTest NetBrake

1. GETTING STARTED

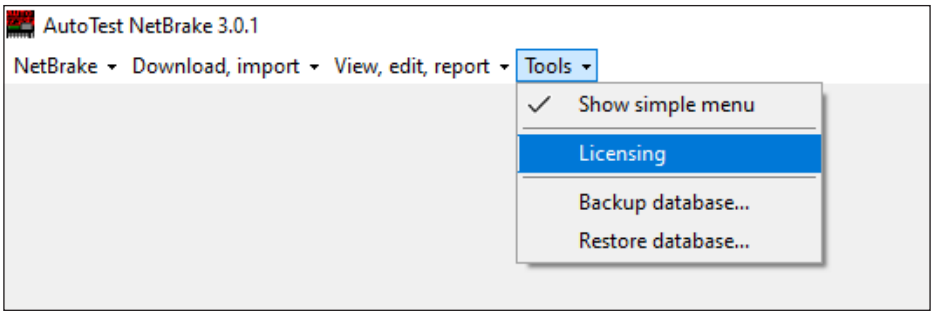
Thank you for purchasing the AutoTest NetBrake software application. This software has been developed to assist the mining and heavy vehicle industries in Australia in managing brake test records and brake test standards and calculations for their fleets.

To install NetBrake, click on the download link from the AutoTest website, and run it. Once installed, you may start the application by clicking on the desktop icon.

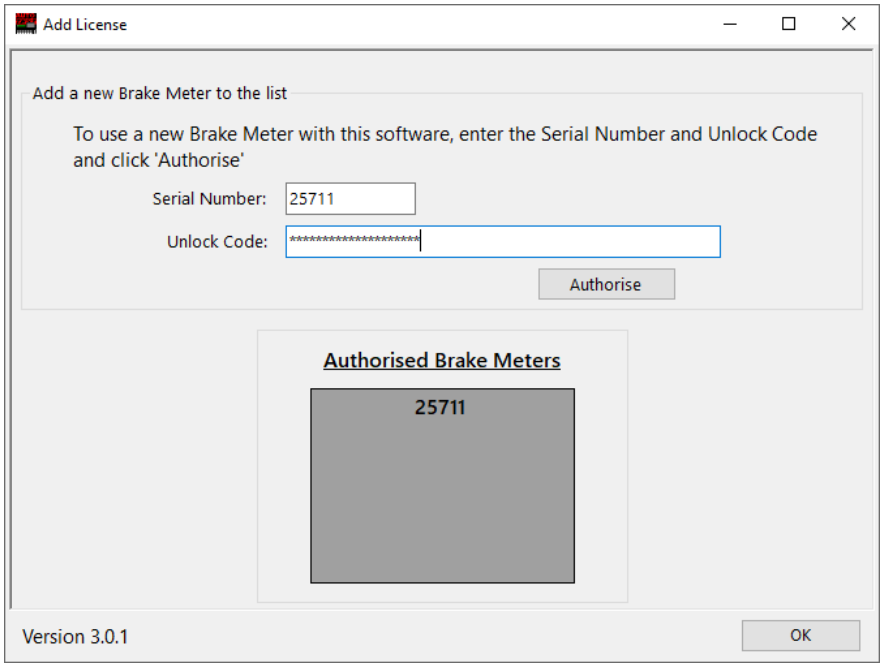
2. LICENSING

NetBrake requires an Unlock Code for each AutoStop brake tester used. Please contact AutoTest Sales to request Unlock Codes for your AutoStop brake testers.

To license an AutoStop brake tester, choose Licensing from the Tools menu:



Enter the brake testers' serial number and Unlock Code, and then press the Authorise button. The serial number of the brake tester will appear in the "Authorised Brake Meters" list:



Once done, you will be able to download and import tests from this brake tester.

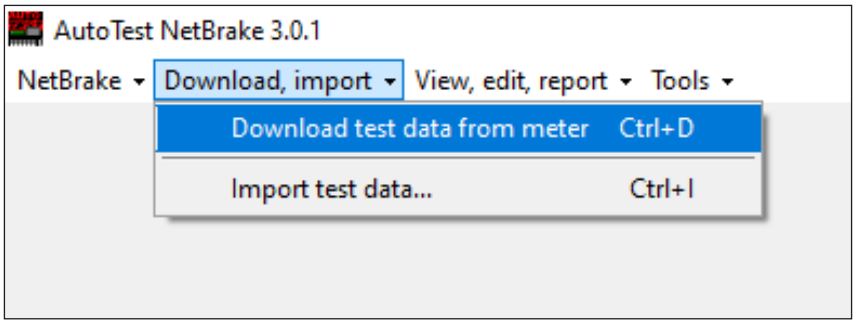
3. ADDING TEST DATA TO THE NETBRAKE DATABASE

3.1 Downloading tests from your AutoStop Mini Plus/Maxi-GPS/Heavy brake tester

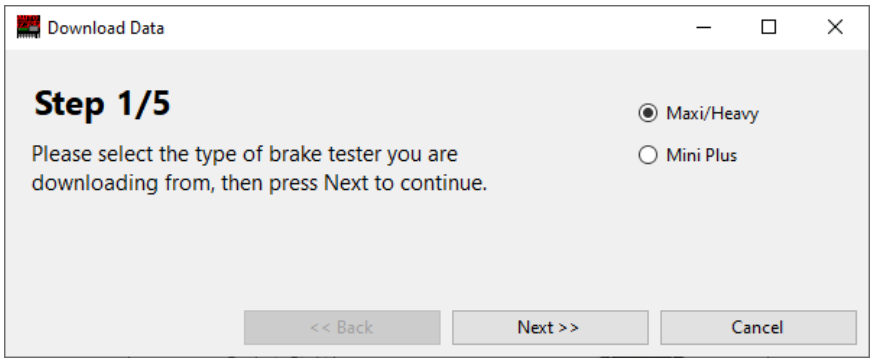
Connect your AutoStop brake tester to your computer via the supplied USB cable, or connect your Bluetooth to a free USB port on your computer.

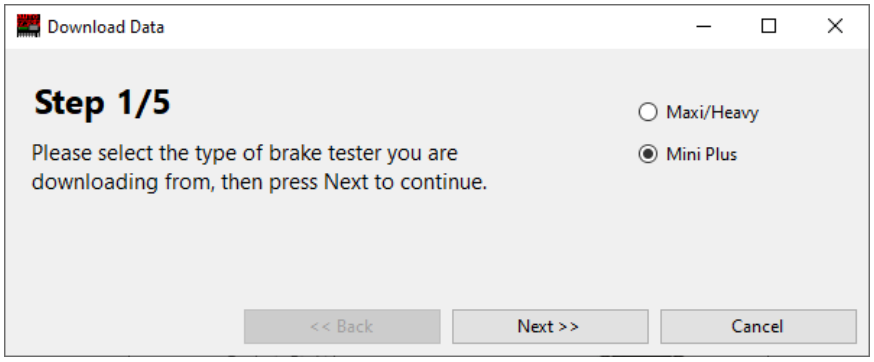
If the brake tester is either connected via USB cable or Bluetooth then switch ON the brake meter now. Otherwise, do not switch ON the brake tester yet.

Click on “Download test data from meter” from the “Download, import” menu:



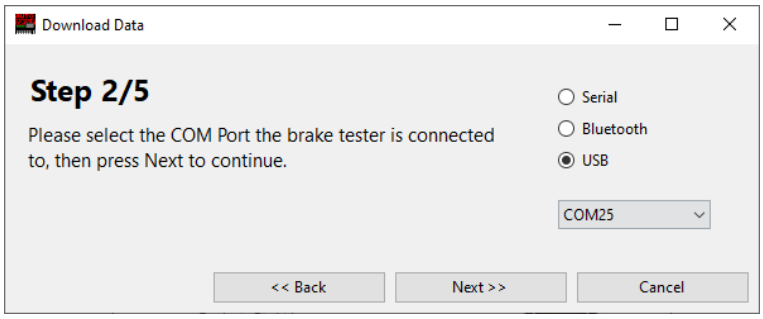
Select the brake meter you wanted to download the data from.

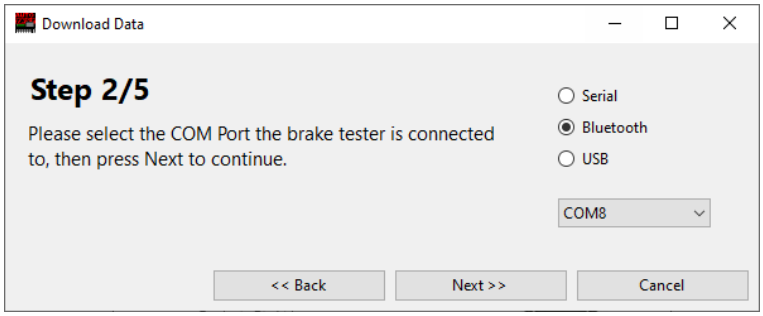




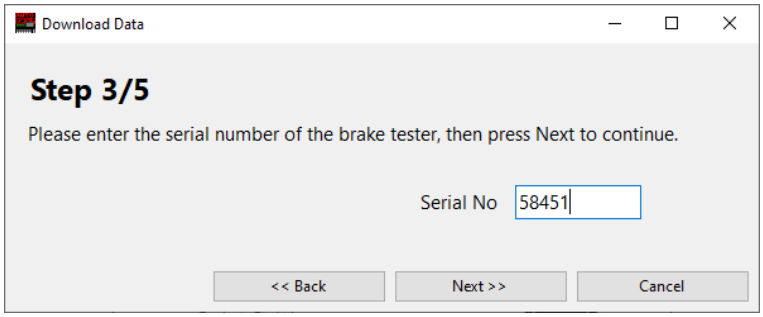
3.1 Downloading tests from your AutoStop Mini Plus/Maxi-GPS/Heavy brake tester (cont'd)

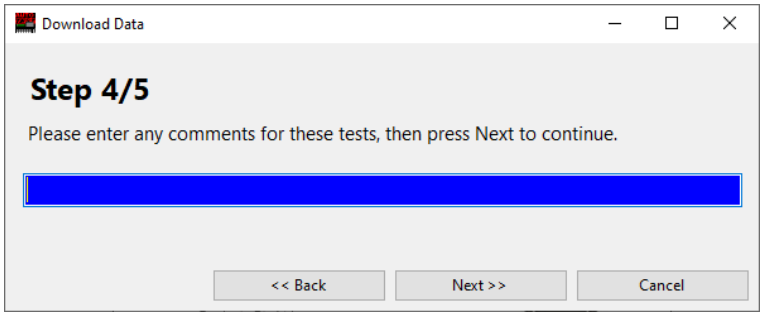
Choose what type of connection you want to connect your brake meter with PC. The COM port can be checked in Windows Device Management to "If connecting using a serial cable or USB cable, the COM port can be checked in Windows Device Manager.

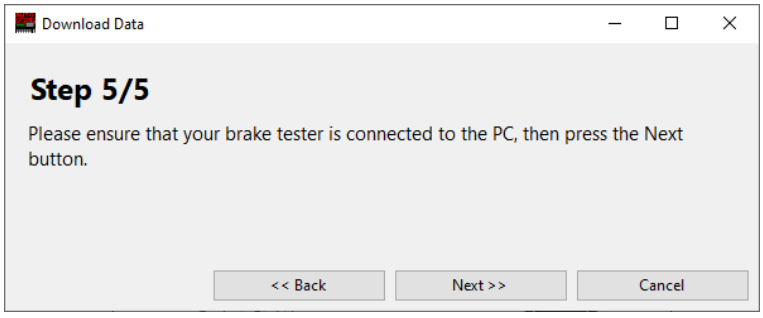




Enter the serial number of the brake tester you are about to download from.



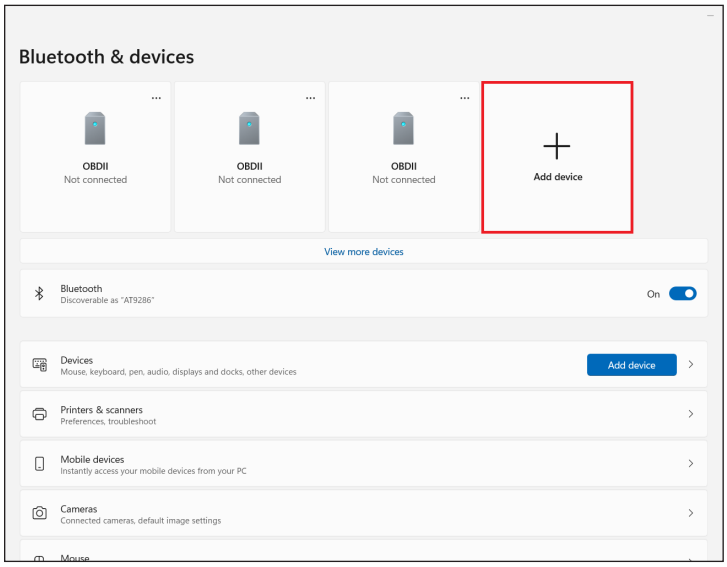


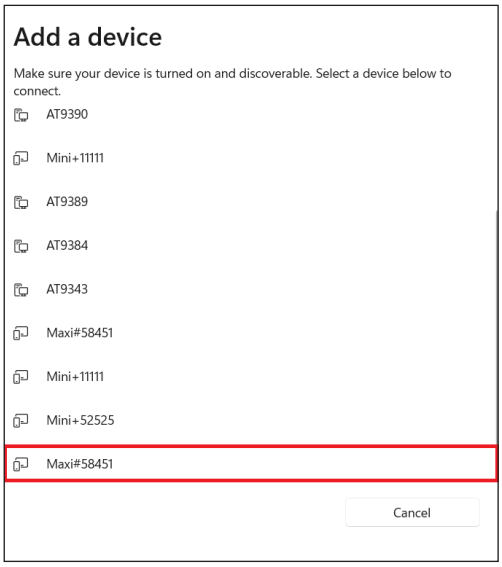


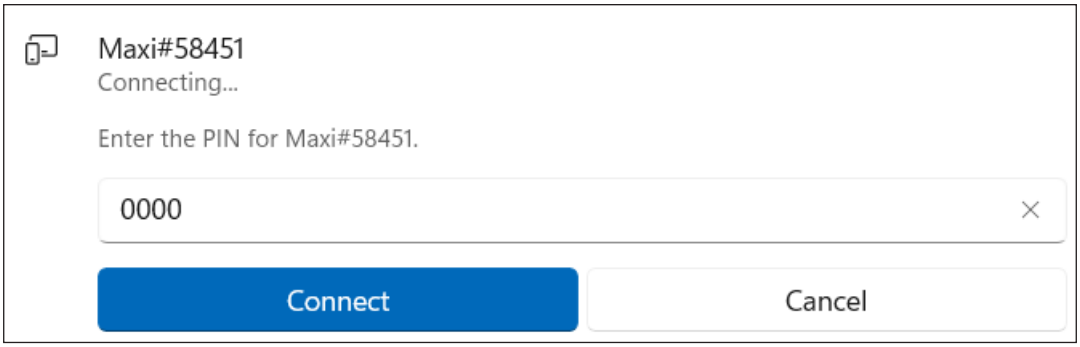
3.1 Downloading tests from your AutoStop Heavy brake tester (cont'd)

If the brake tester is connected through RS232 serial cable, when prompted to do so, switch ON the brake tester. But if the brake meter is connected through USB or Bluetooth interface, keep the brake tester ON and press 'U' from the keypad when the LCD displays "Ready>" and the download will commence.

If connecting using Bluetooth, go to Settings- Bluetooth & devices - Add Device - Choose Bluetooth Option - you will find the MAXI/Heav/Mini#### device, where#### is the serial number of your brake meter. Select the brake meter device from the list of discovered Bluetooth devices and create pairing. When prompted for the pairing code or pin number, enter "0000".

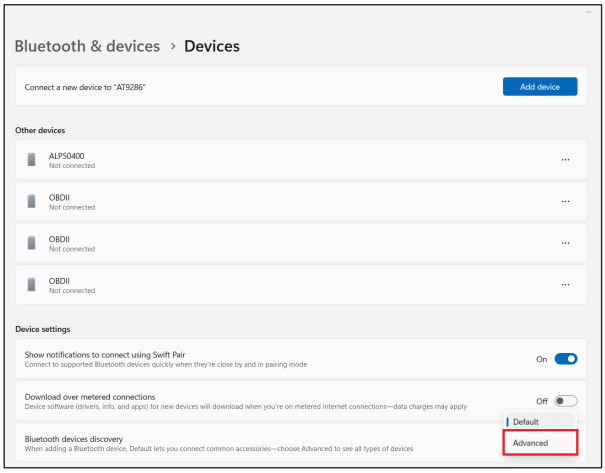


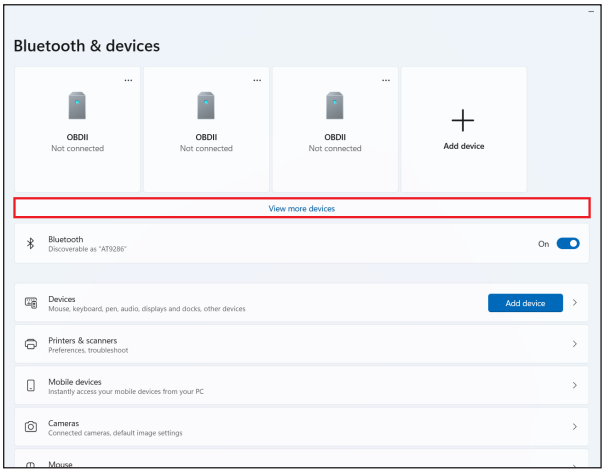




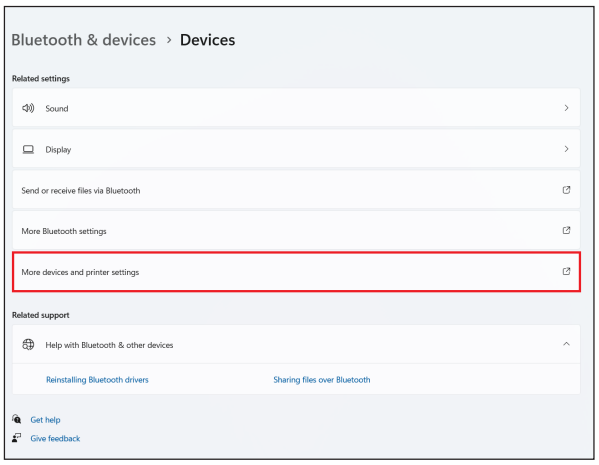
3.1 Downloading tests from your AutoStop Heavy brake tester (cont'd)

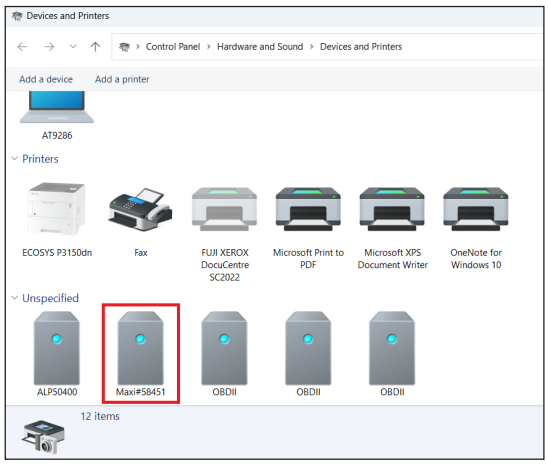
If you have Windows 11, then needs to set their device discovery to advanced instead of default to be able to see the brake meter in the view more devices of the Bluetooth settings.

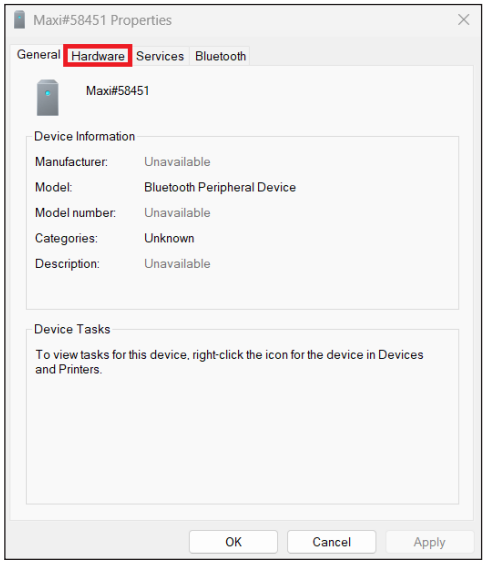


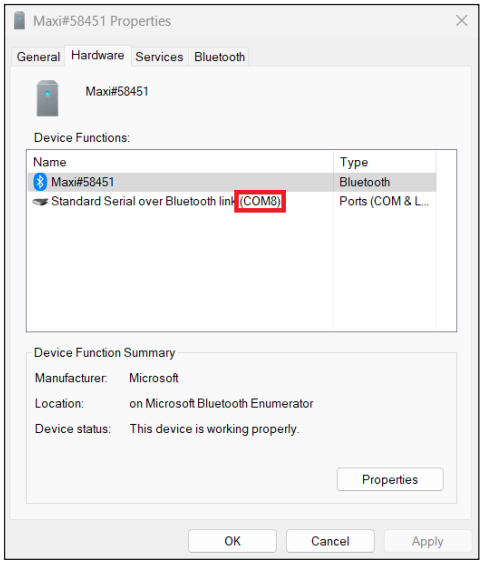


Once the pairing is established, refresh device services and connect using Bluetooth serial port service. To find out which Port is connected to the brake meter, go to more devices and printer setting option which is in the Related Settings of Bluetooth Settings.





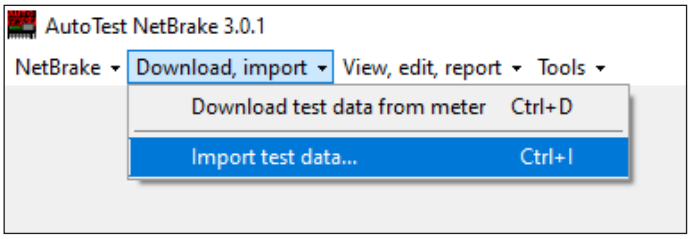




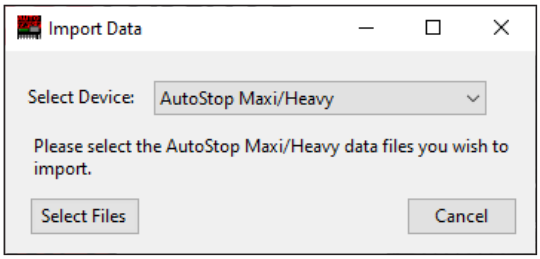
3.2 Importing tests previously downloaded using the Maxi/Heavy Datalogger and Mini Plus Datalogger application

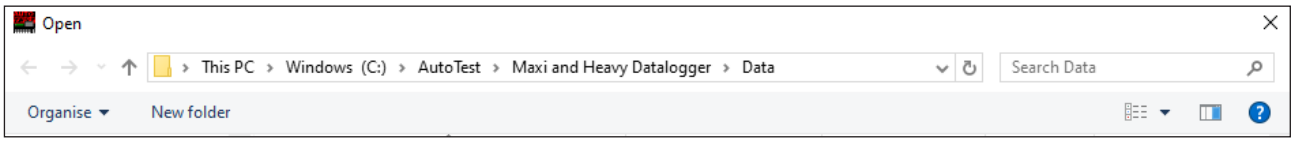
If you have been using the Maxi/Heavy DataLogger software to retrieve tests for your AutoStop brake testers, you will be able to import them into the NetBrake database. Please note that you can only import the tests from the brake meter that are authorised means you have license code.

Click on "Import test data…" from the "Download, import" menu:

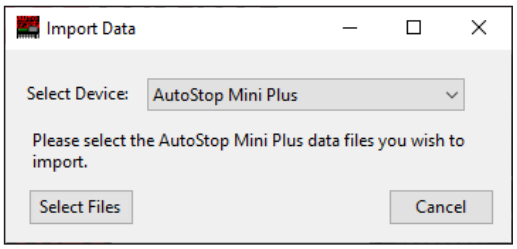


Select "AutoStop Maxi/Heavy" from the drop-down menu, then click the "Select Files" button. This will open a file explorer window, attempting to find the Data folder of an existing installation of the Maxi/Heavy Datalogger. From here, the file explorer can be navigated to the desired location as normal, and files can be selected by clicking, or using ctrl+click or shift+click to select multiple files. Once done, click "Open" and the NetBrake will begin importing all selected files.





The mini+ importing instructions should be largely the same as the maxi/heavy instructions. The only difference is that it will always open in the default file explorer location, or whatever location the software last used, instead of in a specific folder, or the user will have to manually navigate to wherever they saved their exported files from the mini+ datalogger.



If you are importing tests for vehicles that do not exist in the database yet, you will be prompted to enter vehicle details once the import is complete (see section 4.1).

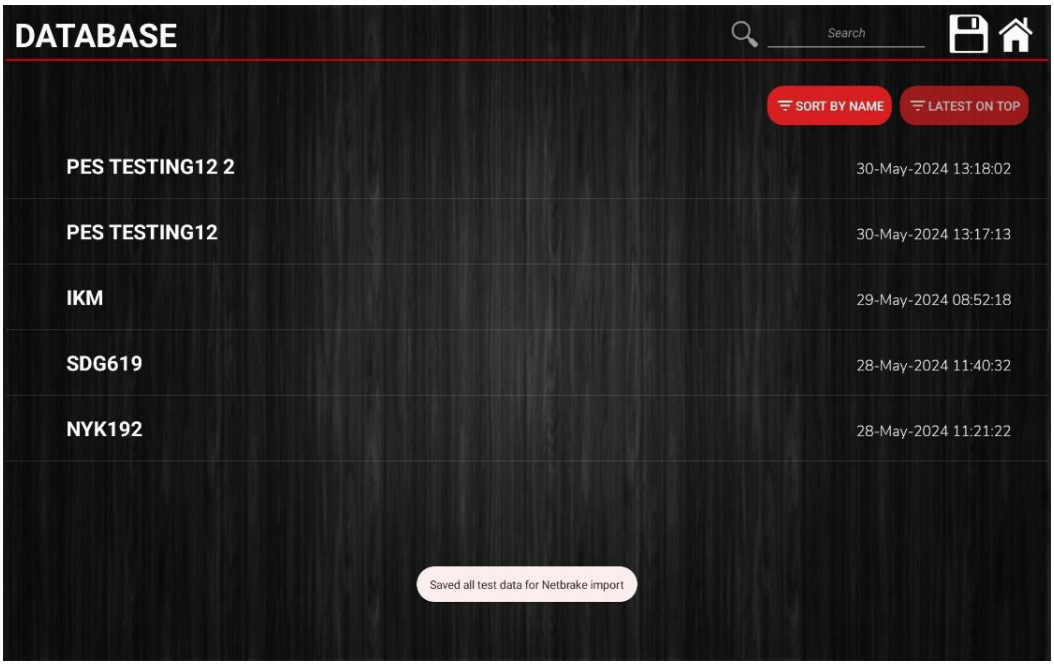
3.3 Importing test from Workshop Pro/Workshop Pro 10

3.3.1 Exporting tests from AutoTest BrakePro app on the Workshop Pro/Workshop Pro 10

On your Workshop Pro or Workshop Pro 10, open the AutoTest BrakePro app and then press on “Database”.

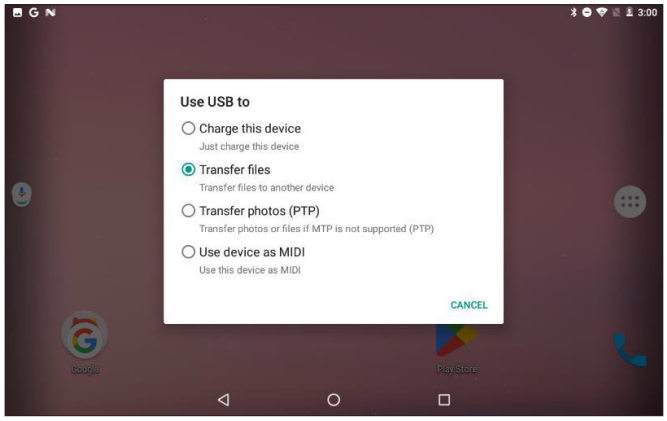
To export your test results for the NetBrake database, press on Export button. Wait for the AutoTest BrakePro app to export all the brake tests to a format that the NetBrake recognises.

Once done, a confirmation message will be shown.

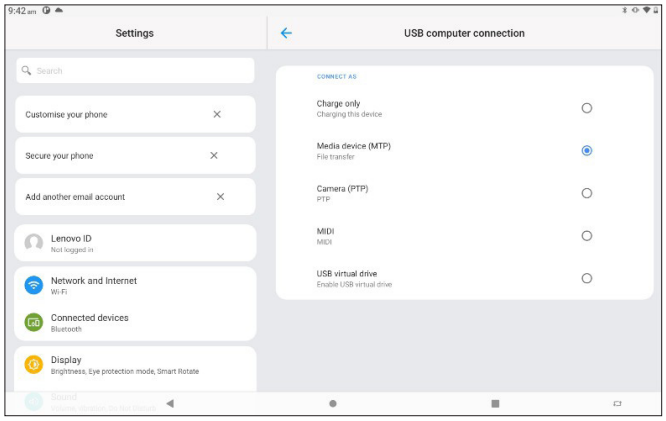


3.3.1 Exporting tests from AutoTest BrakePro app on the Workshop Pro/Workshop Pro 10 (cont'd)

After exporting the brake test results, connect your Workshop Pro or Workshop Pro 10 to a free USB port on your computer via the supplied USB cable. Once connected, make sure that the Workshop Pro Tablet is in USB file transfer mode (for Workshop Pro) or Media File Transfer (MTP) mode (for Workshop Pro 10).

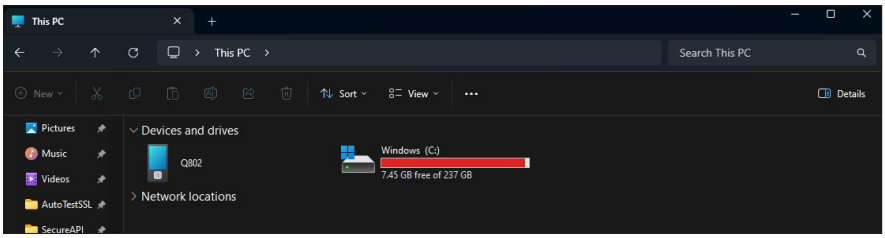


USB file transfer mode for Workshop Pro

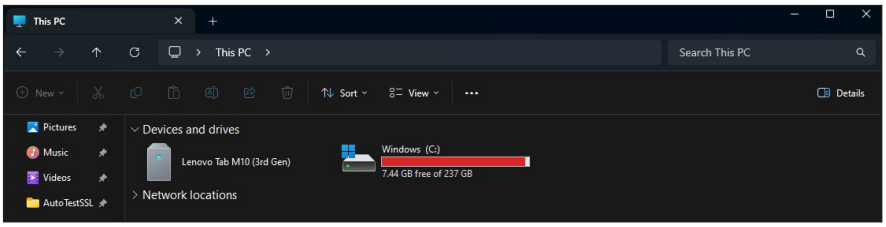


Media File Transfer mode for Workshop Pro 10

Once the Workshop Pro or Workshop Pro 10 is set to USB file transfer mode or Media File Transfer (MTP) mode respectively, your computer should recognise your Workshop Pro Tablet.



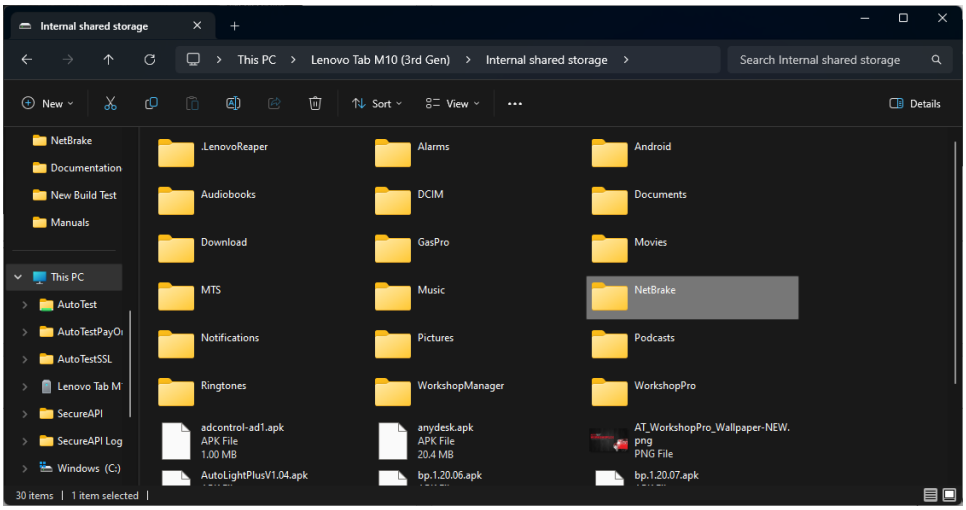
Workshop Pro connected to a computer



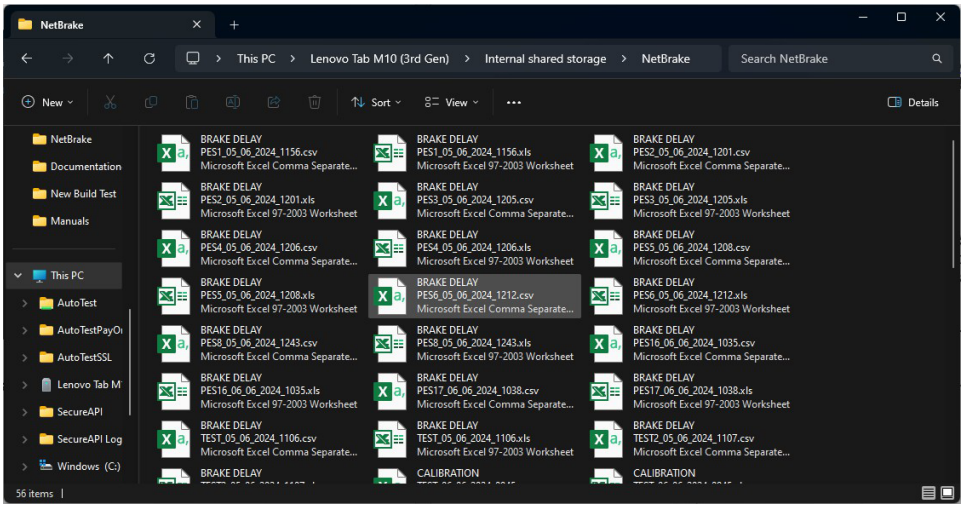
Workshop Pro 10 connected to a computer

3.3.1 Exporting tests from AutoTest BrakePro app on the Workshop Pro/Workshop Pro 10 (cont'd)

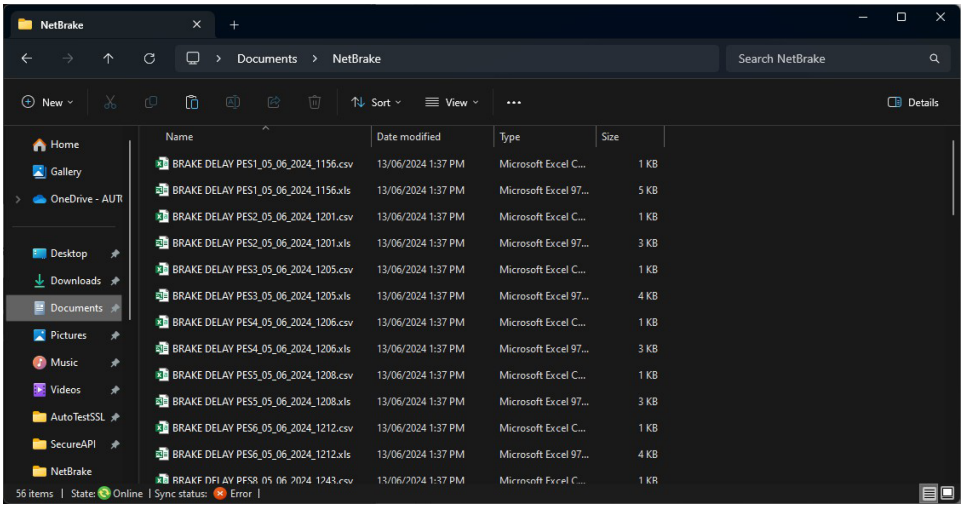
Navigate to the NetBrake folder inside the Internal shared storage of your Workshop Pro or Workshop Pro 10.



Inside the NetBrake folder, you will find all the exported files from each of the brake test result from the AutoTest BrakePro app.

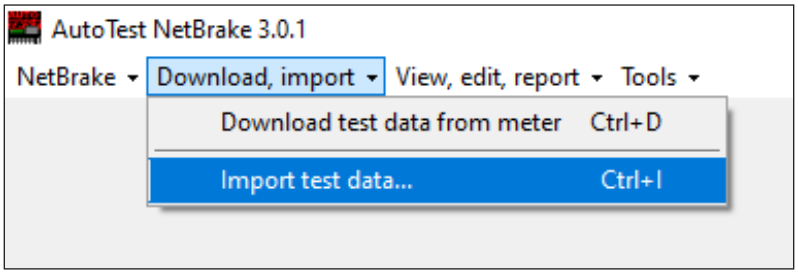


Select all of the files inside the NetBrake folder and transfer them to a folder on your computer. Take note of the folder location since you will need it for the later steps.

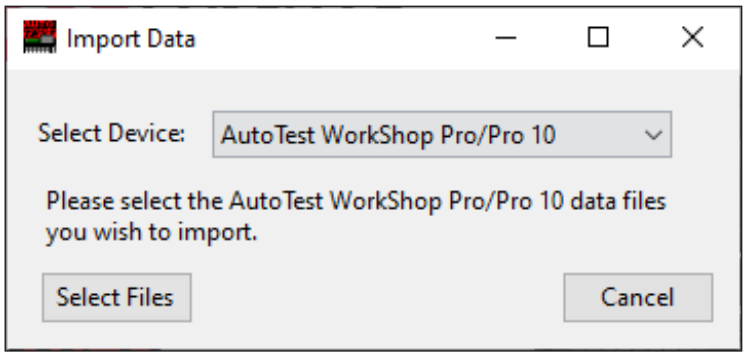


3.3.2 Importing tests that has been transferred from Workshop Pro/Workshop Pro 10

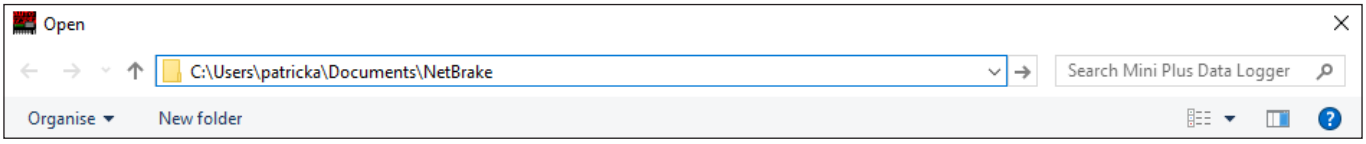
Click on “Import test data” from the “Download, import” menu:



Choose “AutoTest Workshop Pro” or “AutoTest Workshop Pro 10” and then press Next:



Navigate using the file explorer to the folder that you saved the brake test result files. Select the files by clicking or using ctrl+click or shift+click to select multiple files. Once done, click “Open” and the NetBrake will begin importing all selected files

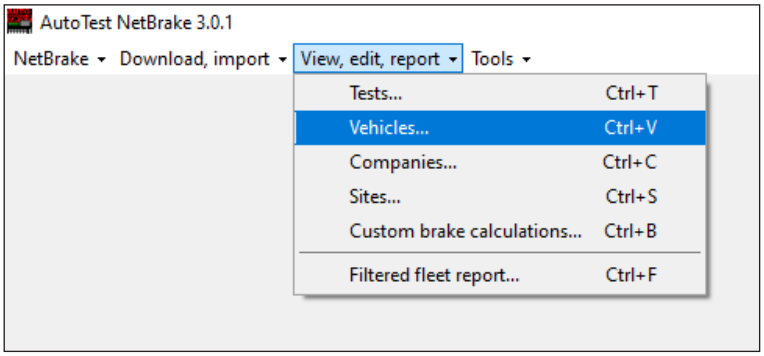


If you are importing tests for vehicles that do not exist in the database yet, you will be prompted to enter vehicle details once the import is complete (see section 4.1).

4. ENTERING DETAILS

4.1 Vehicles

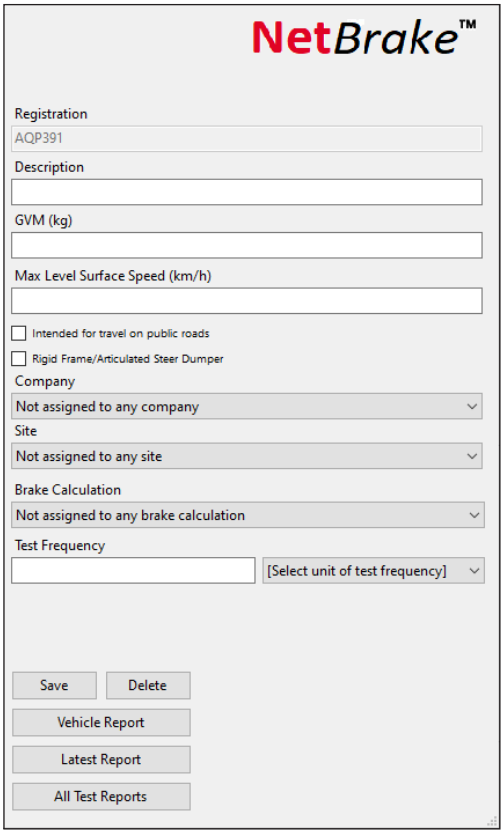
Some data must be entered for each vehicle in the database, before the fleet and brake pass/fail reporting can be used. Open the Vehicle Edit window by clicking “Vehicles” from the “View, edit, report” menu:



Choose a company, site, and braking calculation for this vehicle. Most brake calculations require the Gross Vehicle Mass to be entered.

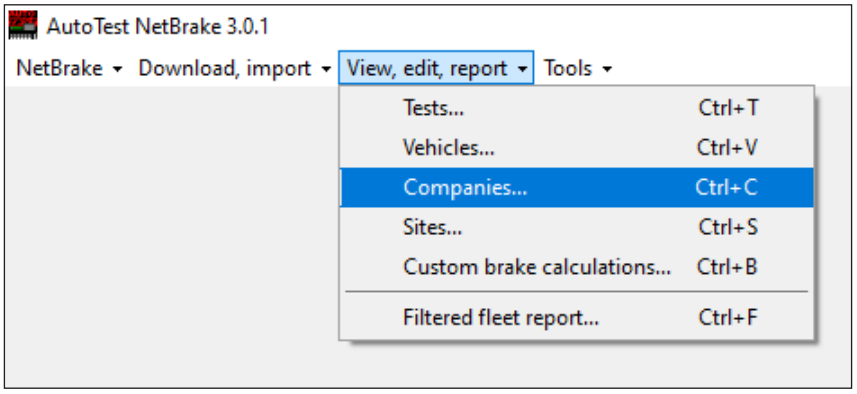
If you wish the vehicle and fleet reports to advise of the date when the next brake test is due, enter a test frequency in days or hours.

Once all details have been entered, press the “Save” button to commit changes to the database:



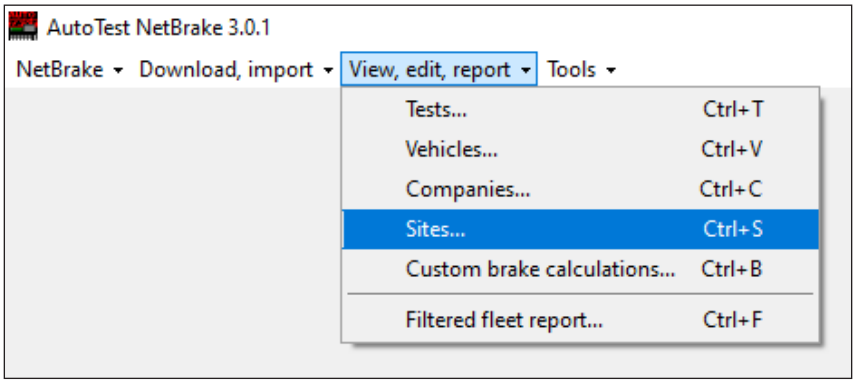
4.2 Companies

Configuring companies is one of two independent ways to group vehicles in a fleet report (the other is by site). To add, edit or delete companies, choose “Companies” from the “View, edit, report” menu:



4.3 Sites

To add, edit or delete sites, choose “Sites” from the “View, edit, report” menu:



4.4 Brake test calculations

There exists a myriad of disparate brake test regulations in Australia, particularly in the mining and heavy machinery industries. The brake test calculations in NetBrake attempt to make it easier to determine and report on pass/fail criteria for a fleet of vehicles. There are several brake test standards available by default:

AS2958.1 Earth-moving machinery – safety. This standard includes brake test calculation requirements for the primary and secondary brake systems, for vehicle masses above and below 32000kg, for vehicles intended or not intended for travel on public roads, and for vehicles that are or are not classed with rigid frame / articulated steer dumpers.

AS2359.13 Powered industrial trucks. This standard provides service brake test calculation requirements for truck types A (industrial trucks), B (industrial tractors), C (stacking lift trucks with operating position elevating in association with the load-lifting device, lateral-stacking lift trucks, lateral- and front-stacking lift trucks, order-picking trucks), and D (rough-terrain trucks).

4.4 Brake test calculations (cont'd)

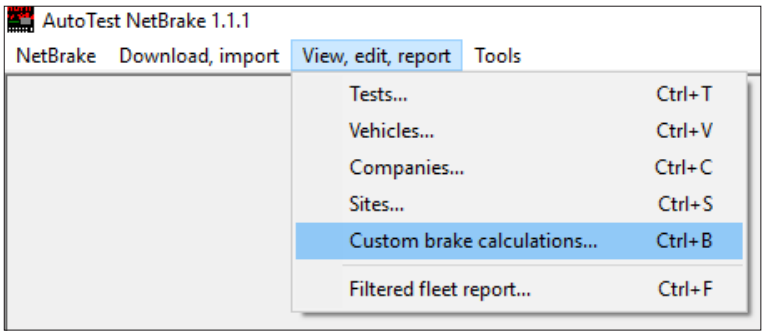
RTA Rule 101. This rule is the NSW state law for public road vehicles, and it applies to service and emergency brakes, for vehicle masses above and below 3000kg.
Australian Vehicle Standards Rule, Rule 128. This rule is the Northern Territory law for public road vehicles, and it applies to service and emergency brakes, for vehicle masses above and below 3000kg.

Queensland Transport - Roadworthy regulations. This rule is the QLD state law for public road vehicles, and it applies to service and emergency brakes, for vehicle masses above and below 3000kg.

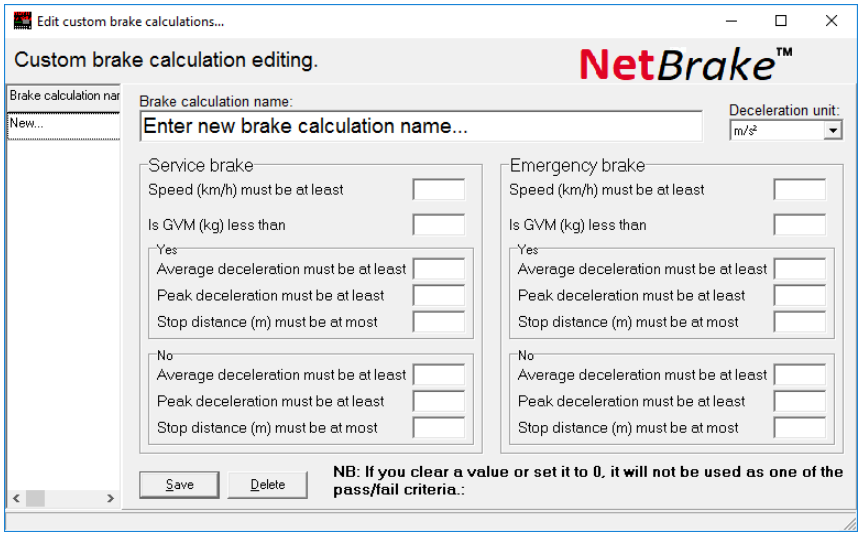
VicRoads Safety Regulation. This rule is the VIC state law for public road vehicles, and it applies to service and emergency brakes, for vehicle masses above and below 3000kg.
Heavy Vehicle Inspection Manual. This rule is the TAS state law for public road vehicles, and it applies to service and emergency brakes, for vehicle masses above 4500kg.

4.5 Custom Brake Test Calculations

The default brake test calculations may not be appropriate for all fleets. It is possible to create a custom set of brake calculations to suit. To create, edit or delete brake calculations, choose "Custom brake calculations…" from the "View, edit, report" menu



This will display the Edit custom brake calculation window:



4.5 Custom Brake Test Calculations (cont'd)

Deceleration unit. AutoStop Heavy brake testers are able to store average and peak deceleration in one of three units. Choose a preferred unit of measure here, and all deceleration values will be displayed in this unit for all vehicles associated with this brake calculation.

Speed (km/h) must be at least. Enter a value indicating the minimum speed the vehicle decelerated from. If the test reports a speed lower than this value, the test fails.

Brake delay (s) must not exceed. Enter a value indicating the maximum duration between the pedal effort sensor being pressed, and the vehicle beginning deceleration. If the test reports a brake delay duration higher than this value, the test fails.

Brake capability (%) must be at least. Enter a value indicating the minimum brake capability. If the test reports a brake capability lower than this value, the test fails.

Baseline brake capability (%). Enter a value indicating what will be used when checking against the value in the below field. If this is left blank, but the below field is not, a baseline test will be searched for, and the brake capability value of that test will be used instead.

Brake capability as a percentage of baseline testing (%) must be at least. Enter a value indicating the minimum percentage the brake capability in the test must be relative to the brake capability in the baseline test. If the brake capability of the test as a percentage of the brake capability of the baseline test is lower than this value, the test fails."

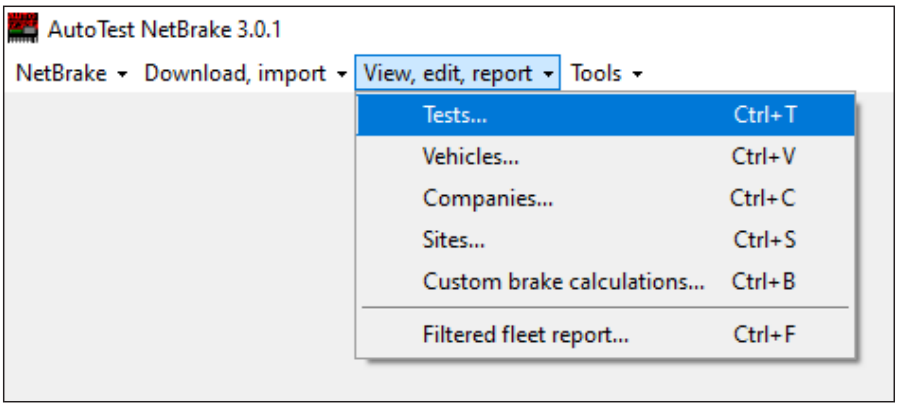
Is GVM (kg) less than. All state laws have different requirements for vehicles of different mass. This value must be entered for all custom brake calculations. If the vehicle GVM is less than this value, then the values in the "Yes" box will be used, otherwise the values in the "No" box are used.
Average deceleration must be at least. This will be the minimum average deceleration; tests with lower average deceleration will fail. NB: unit for this value depends on the Deceleration unit field above.

Peak deceleration must be at least. This will be the minimum peak deceleration; tests with lower peak deceleration will fail. NB: unit for this value depends on the Deceleration unit field above.
Stop distance (m) must be at most. This will be the maximum stopping distance; tests with greater stopping distance will fail. NB: unit is metres.

5. Reporting

5.1 Test reports

Test reports are available by selecting “Tests” from the “View, edit, report” menu.



Find the test you wish to report on, and press “Report”. This report displays detailed information from the test results, including a graph showing deceleration, and load cell force. Note that load cell force data is only available for service brake tests.

It is also possible to view the test report for a vehicle’s latest test from the Vehicle Edit window.

5.2 Vehicle reports

Vehicle reports are available by selecting “Vehicles” from the “View, edit, report” menu.

The vehicle report shows all details associated with the vehicle, followed by a list of all tests performed on this vehicle, ordered by test date. A column indicates whether the test passed or failed, but detailed information on the brake pass/fail calculation is not available.

For more detail, a test report must be used.

5.3 Company and site reports

Company and site reports are available from the Edit Company and Edit Site windows, respectively.

These reports show every vehicle in the company or site, along with results of the last test performed for each vehicle, and an indication for when each vehicle is due to be retested.

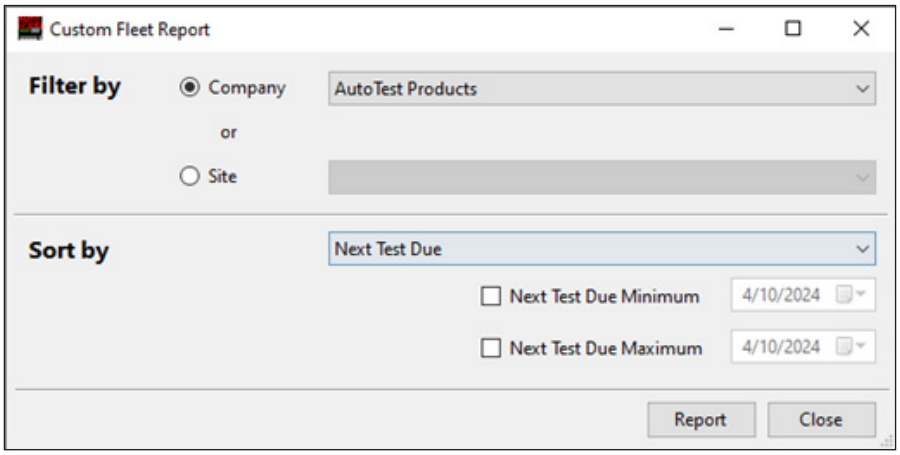
This report indicates whether the test passed or failed, but detailed information on the brake pass/fail calculation is not available. For more detail, a test report must be used.

5.4 Filtered Fleet Reports

A filtered fleet report is the same as a company or site report, except that sorting by last test date or next test due is available, and minimum/maximum values for these dates can be specified.

Using these filters, it is possible to create reports for:

- vehicles in a fleet that are overdue or are soon to be overdue for brake testing,
- vehicles that have been tested today / this week / etc,
- vehicles that are not overdue for testing.



This report can thus be used for invoicing purposes, or for organising a day or week's activity.

NOTES:

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