

# Batch Crash Test Setup - Quick Guide

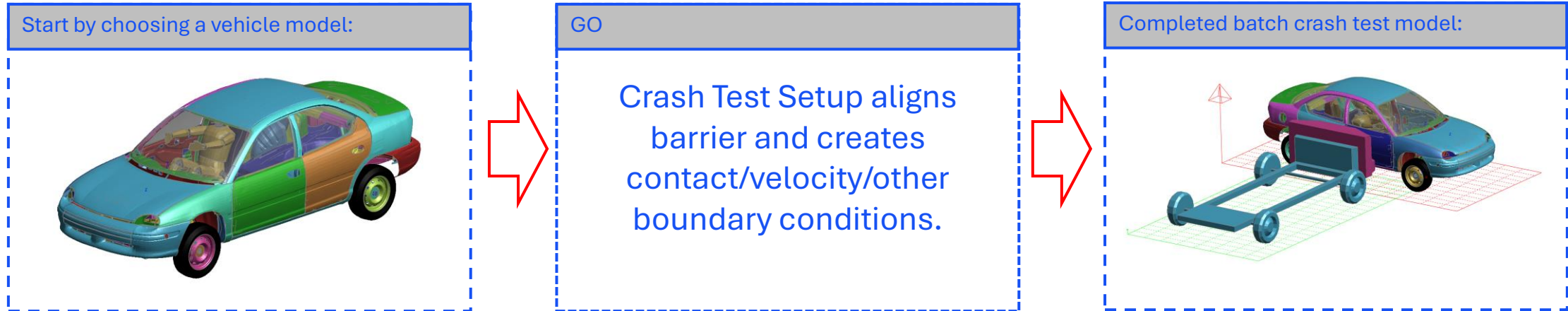


# Introduction

Batch Crash Test Setup is a script that helps you set up multiple different crash tests at once. It automates the setup process and makes it easier to generate many load cases.

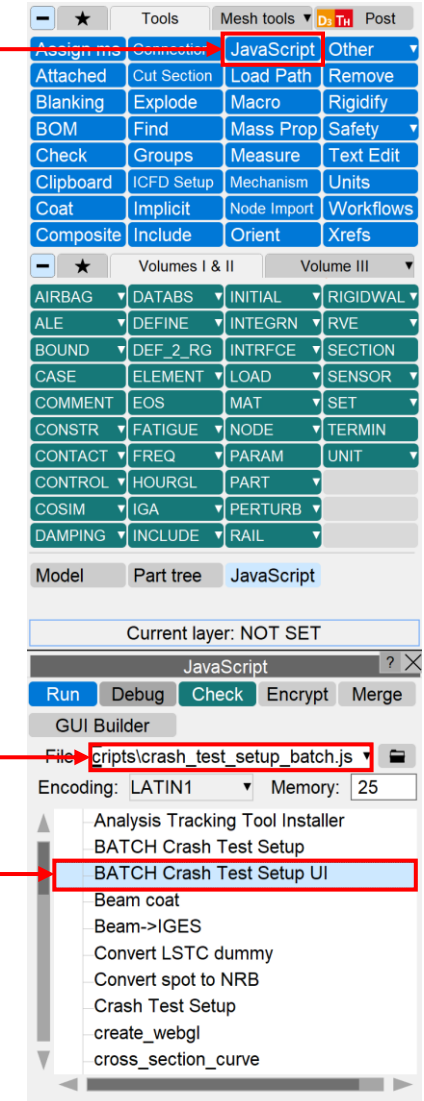
This **Quick Guide** will help you get started.

To run Batch Crash Test Setup, select **Tools** → **Script** and run **BATCH Crash Test Setup UI**.



# Introduction – Running the Script

- The script can be used with Primer 18.0 and subsequent versions, and is included with the current Primer release. The script can be found in the following area after installing:
  - `$OASYS/primer_library/scripts/crash_test_setup_batch.js`
- To run the script, click on the **Tools** → **JavaScript** button in Primer.
- The script can be selected using the file selector.
- If you are using a standard installation, the script will appear in the list of standard scripts released with Primer.



# Batch crash test setup UI

- Under the vehicle model, select the input file. Crash test is used to select the crash test type. In vehicle/barrier settings, input your settings. Use the title appendage to name the model or test. Output master file is the location of the generated master file.
- The options button can copy and paste a previously selected setting. It can also fill down a row
- Previously generated batch test setups can be imported and modified.

Crash Test Setup - Batch

	Vehicle Model	Crash Test	Vehicle Settings	Barrier Settings	Title Appendage	Output Master File
<input checked="" type="checkbox"/>	<input type="text"/> Options...		<default> Options...	<default> Options...	Options...	Options...
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Import Batch XML File:  Import

Save Batch XML File:  Save

Read additional user preferences:  Read

Cancel GO

Additional test, vehicle and barrier settings can be read from preference files

Batch test setup can be saved as XML files.

The red light indicates that the setup on this line is invalid.

The crash tests can be generated if the batch tests are valid

# Crash Test Selection

- In the Crash Test selection panel, you can select the type of crash test needed. Multiple crash tests can be selected in this window. This will then create new rows with all the selected tests and will add a number to the output master file name.
- Also use the 'filter by' button to filter the list of tests displayed.

Crash Test Setup - Batch

Vehicle Model	Crash Test	Vehicle Settings	Barrier Settings	Title Appendage	Output Master File
<input checked="" type="checkbox"/>	<input type="text" value="Options..."/>	<input type="text" value="Options..."/>	<input type="text" value="Options..."/>	<input type="text" value="Options..."/>	<input type="text" value="Options..."/>
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<input type="checkbox"/>	<input type="text" value="Options..."/>	<input type="text" value="Options..."/>	<input type="text" value="Options..."/>	<input type="text" value="Options..."/>	<input type="text" value="Options..."/>
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<input type="checkbox"/>	<input type="text" value="Options..."/>	<input type="text" value="Options..."/>	<input type="text" value="Options..."/>	<input type="text" value="Options..."/>	<input type="text" value="Options..."/>
<input type="checkbox"/>	<input type="text" value="Options..."/>	<input type="text" value="Options..."/>	<input type="text" value="Options..."/>	<input type="text" value="Options..."/>	<input type="text" value="Options..."/>
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<input type="checkbox"/>	<input type="text" value="Options..."/>	<input type="text" value="Options..."/>	<input type="text" value="Options..."/>	<input type="text" value="Options..."/>	<input type="text" value="Options..."/>
<input type="checkbox"/>	<input type="text" value="Options..."/>	<input type="text" value="Options..."/>	<input type="text" value="Options..."/>	<input type="text" value="Options..."/>	<input type="text" value="Options..."/>
<input type="checkbox"/>	<input type="text" value="Options..."/>	<input type="text" value="Options..."/>	<input type="text" value="Options..."/>	<input type="text" value="Options..."/>	<input type="text" value="Options..."/>
<input type="checkbox"/>	<input type="text" value="Options..."/>	<input type="text" value="Options..."/>	<input type="text" value="Options..."/>	<input type="text" value="Options..."/>	<input type="text" value="Options..."/>
<input type="checkbox"/>	<input type="text" value="Options..."/>	<input type="text" value="Options..."/>	<input type="text" value="Options..."/>	<input type="text" value="Options..."/>	<input type="text" value="Options..."/>
<input type="checkbox"/>	<input type="text" value="Options..."/>	<input type="text" value="Options..."/>	<input type="text" value="Options..."/>	<input type="text" value="Options..."/>	<input type="text" value="Options..."/>
<input type="checkbox"/>	<input type="text" value="Options..."/>	<input type="text" value="Options..."/>	<input type="text" value="Options..."/>	<input type="text" value="Options..."/>	<input type="text" value="Options..."/>
<input type="checkbox"/>	<input type="text" value="Options..."/>	<input type="text" value="Options..."/>	<input type="text" value="Options..."/>	<input type="text" value="Options..."/>	<input type="text" value="Options..."/>
<input type="checkbox"/>	<input type="text" value="Options..."/>	<input type="text" value="Options..."/>	<input type="text" value="Options..."/>	<input type="text" value="Options..."/>	<input type="text" value="Options..."/>
<input type="checkbox"/>	<input type="text" value="Options..."/>	<input type="text" value="Options..."/>	<input type="text" value="Options..."/>	<input type="text" value="Options..."/>	<input type="text" value="Options..."/>
<input type="checkbox"/>	<input type="text" value="Options..."/>				

# Batch test xml

- The user can write out their batch crash test cases to an xml file. Below is an example extract:

```
<CRASH_TEST_BATCH>
  <BATCH>
    <BODY>EuroNCAP</BODY>
    <CODE>Side Impact</CODE>
    <TEST>Side Impact (R-point)</TEST>
    <CUSTOM>
      <GROUP>release</GROUP>
      <GROUP>simplified barrier</GROUP>
    </CUSTOM>
    <VEHICLE>J:\00000\Dyna_Environment\OasysDemos\CRASH_TEST_SETUP\Example_Vehicle\neon_demo_with_sets.key</VEHICLE>
    <VSET>Neon</VSET>
    <BARRIER></BARRIER>
    <BSET></BSET>
    <TRANID></TRANID>
    <TITLE_APP> + EuroNCAP Side Impact</TITLE_APP>
    <WRITE>J:\00000\Dyna_Environment\OasysDemos\CRASH_TEST_SETUP\Batch_Vehicles\1_neon_euro_side.key</WRITE>
  </BATCH>
```

# Vehicle and barrier settings

- Vehicle and barrier settings are stored in xml files containing the user input data.
- These files can be generated using the Crash Test Setup tool. You can modify the settings based on the user defined inputs or the pre-defined settings can be used instead.
- As mentioned in the useful tips, it is advised that when modifying the data, to save this new setting under a different name so it is easy to come back to and use again.
- The same thing applies to the barrier settings
- Users could also manually edit the xml file to define the barrier or vehicle settings.
- The batch script can import the settings from the xml files generated by the main Crash Test Setup tool. This allows for custom setups in the batch script.





# Vehicle and barrier xml files

- Inputs defined in the crash test setup are saved to the xml settings file shown on the right.

Crash Test Setup 20.0

1. CRASH TEST → 2. VEHICLE → 3. BARRIER

Read File:  C:\Users\jens.bauer\Desktop\VehicleModel\pr147\_input\_1.key

OR

Select a Primer model:  Selected Model 1: Neon model for Primer Demo + seat\_17 + h350\_02 + Crash Test Setup sets

VEHICLE SETTINGS

Edit vehicle settings for: ☐ selected test only ☒ all tests

STATUS: editing vehicle settings for "Neon - raised ground plane"

Showing 1 - 10 of 17 settings panels Page 1/2

Orientation

Vehicle driving direction: ☒ + X ☐ - X

Occupant's Head - Centre of Mass

Set head coordinates. If more than one is selected, multiple setups will be run

	X	Y	Z		
Head #1:	<input checked="" type="checkbox"/>	<input type="text" value="2275.1"/>	<input type="text" value="-374"/>	<input type="text" value="1253.2"/>	<input type="button" value="Select Node"/> <input type="button" value="Sketch Point"/>
Head #2:	<input type="checkbox"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="button" value="Select Node"/> <input type="button" value="Sketch Point"/>
Head #3:	<input type="checkbox"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="button" value="Select Node"/> <input type="button" value="Sketch Point"/>

Part Set (LEFT) for contact and alignment

Part Set (RIGHT) for contact and alignment

R-point

Coordinates:

Ground Plane (for barrier alignment)

Front wheel ground z-coord:   ☐ Horizontal plane?

Rear wheel ground z-coord:

Wheel Support Plane

☒ OFFSET

☒ Define Set... 1200065

Wheel Axes

Front wheel x-coord:

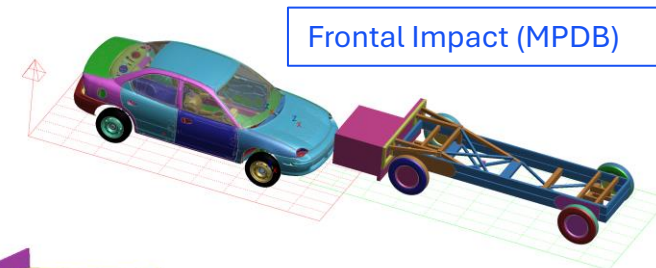
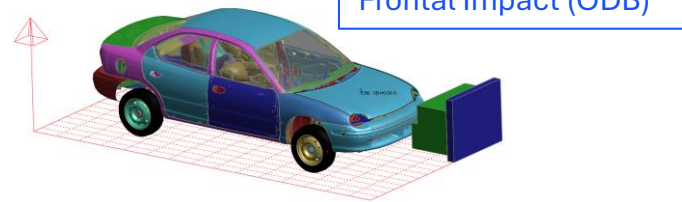
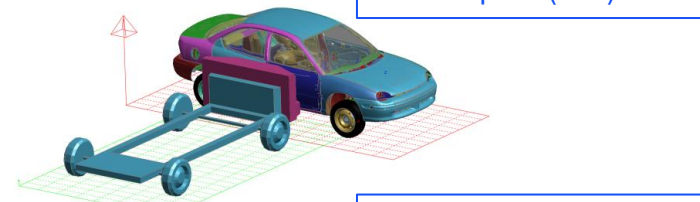
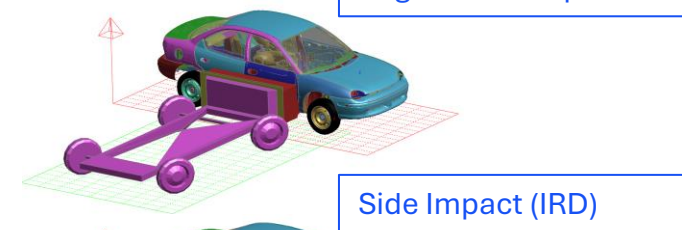
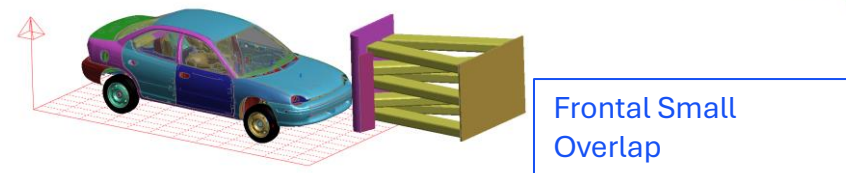
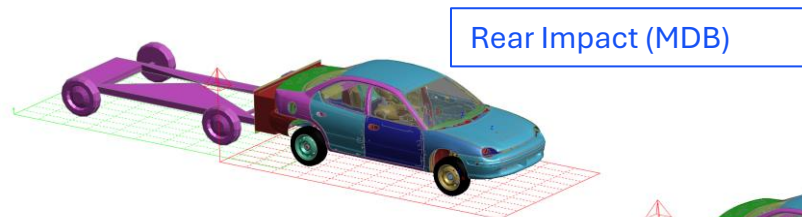
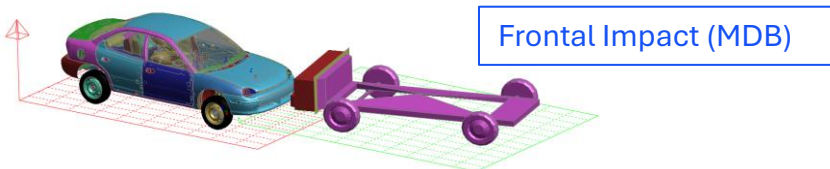
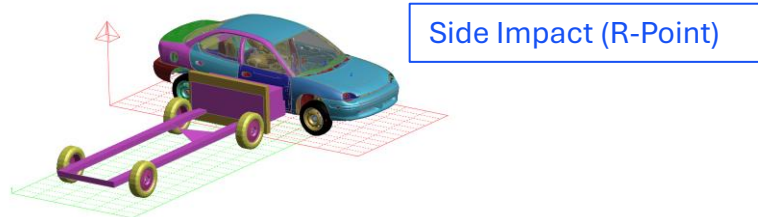
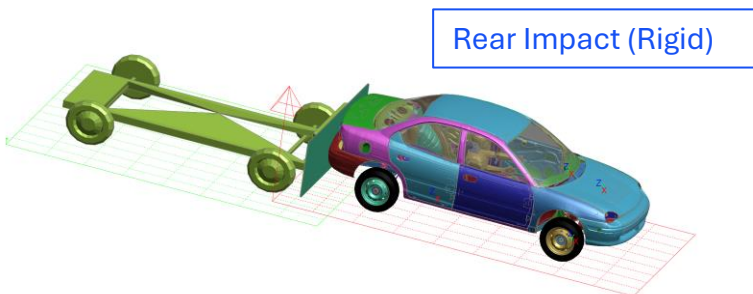
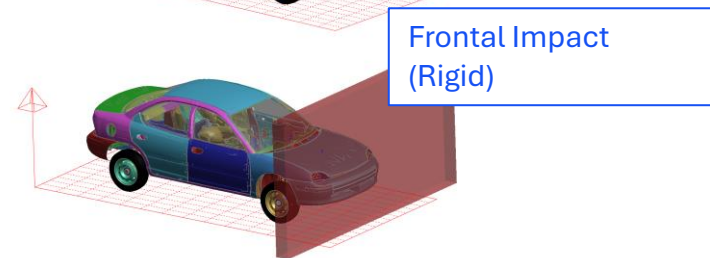
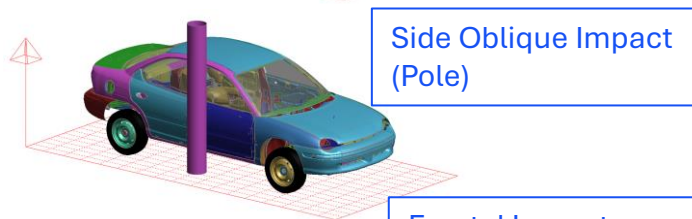
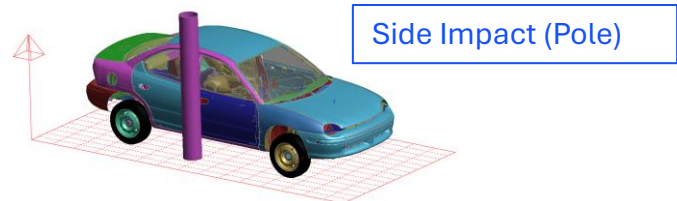
Rear wheel x-coord:

Part Set (FRONT) for contact and alignment

```
<VEHICLE>
<NAME>Neon</NAME>
<DESCRIPTION>for use with &quot;neon_demo_with_sets.key&quot;</DESCRIPTION>
<DIRECTION>1 0 0</DIRECTION>
<R_POINT>2413.80712890625 -374 621.3348388671875</R_POINT>
<OCC_COM>2275.140869140625 -374 1253.244140625</OCC_COM>
<CENTRE>885.446 24.8395 -835.767</CENTRE>
<GROUND>
  <FRONT>0</FRONT>
  <REAR>0</REAR>
</GROUND>
<SUPPORT>
  <CREATE>1</CREATE>
  <OFFSET>
    <OFF_ADD>0</OFF_ADD>
    <OFF_DIST>100</OFF_DIST>
  </OFFSET>
  <NODE_SET>
    <NSET_ADD>1</NSET_ADD>
    <NSID>1200065</NSID>
  </NODE_SET>
</SUPPORT>
<RC_RESTRAINT>1200066</RC_RESTRAINT>
<RC_FORWARD_POINT>2748.960693359375</RC_FORWARD_POINT>
<MPV>0</MPV>
<WHEEL>
  <FRONT>3716.89501953125</FRONT>
  <REAR>1069.033447265625</REAR>
</WHEEL>
<PARTS>
  <ROOF def="manual">1001439</ROOF>
  <LEFT def="manual">1001435</LEFT>
  <RIGHT def="manual">1001436</RIGHT>
  <P_FRONT def="manual">1001437</P_FRONT>
  <P_REAR def="manual">1001438</P_REAR>
</PARTS>
<LADEN>
  <CREATE_LADEN>NaN</CREATE_LADEN>
  <L_LADEN>NaN</L_LADEN>
  <LADEN_CSV>NaN</LADEN_CSV>
  <LADEN_PSET>NaN</LADEN_PSET>
  <LADEN_INPUT>undefined</LADEN_INPUT>
</LADEN>
<VELOCITY>
  <STYPE>auto</STYPE>
  <SETID></SETID>
</VELOCITY>
</VEHICLE>
```



When you click on GO, the Crash Test Setup will complete the barrier alignment:



## 1. Crash Test

Crash Test Setup is distributed with a set of preconfigured **crash test entries**. If you change the test options it is worth saving the variant as a new crash test entry. It is a good idea to give your crash test variant a unique name or description in **Custom Groups**.

## 2. Vehicle

The first time you use each vehicle in Crash Test Setup, do the following:

- Define the vehicle settings for all tests. This may involve creating new node and/or part sets.
- Save the vehicle settings as a new entry. Choose to **Link entry to model file now**.
- Write out the master file with a new name. This master file will contain your newly created sets, as well as a link to the settings entry.
- Now when you want to use Crash Test Setup again to set up a different test for the same vehicle, all the settings will be imported automatically and all of the part and node sets will be present.

## 3. Barrier

If you intend to use Crash Test Setup on a regular basis:

- Create a **central library** of barrier models.
- Create **one** barrier model to be used for **each** test type. Make sure the barrier settings for each model are correct. Then these **saved default** barriers can be used by everyone in your organisation.



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