



Description of New Features and Bug Fixes at Version 6.01b

			Description
1	Bug Fix	Convert to Axle	Running the 'Convert to Axle' function on a model with a position actuator would generate an additional 'null' point. This has now been resolved.
2	Bug Fix	Change Mode	At the last release the change mode 'set part lengths' wasn't being enabled. This has now been resolved.
3	Bug Fix	Point to Line Joggle	The action of 'joggling' the distance of a point to a line when in change part mode by length was identified as not correctly adjusting the distance. Fixed at this release.
4	Bug Fix	Matlab Export	A number of file required to support the function of exporting graphs to Matlab where missing from the install. The missing files have now been added to the install.
5	New	Change Part by Length	The change mode 'by length' previously only worked on part lengths that used a pnt-pnt line graphic to represent them. At this release the same functionality is applied to tube graphics that represent pnt-pnt distance.
6	New	Ground Plane Diff	The options on correcting the ground plane Z difference between defined front and rear models has been extended to allow the user to choose between the front or rear suspension being the end that is moved. Previously it was always the rear suspension that was corrected in Z.
7	New	Wheelbase Diff	The options on correcting the Wheelbase 'error' between front and rear suspensions has been extended to allow the user to choose between moving the front or moving the rear when working with the 'fixed' wheelbase option. Previously it was always the rear suspension that was corrected in X.
8	New	Total Mass Front	A new variable has been added to supplement the existing mass split value. Previously the weight split was for the Sprung mass weight split and was used in the calculations for anti-dive and anti-squat. It was also being used to 'graphically' draw the total mass CofG graphic. To enable the correct drawing position of the CofG symbol a new variable has been added being the 'Total Mass Front%'. This does not change any calculated results, it just changes the graphical position used to indicate the vehicle mass centre.
9	Bug Fix	Calculated Points	Previously it was possible for the user when deleting points from their model to lose the template setting for some special calculated points added to the template. The effected points were the Roll centre and instantaneous centres. It was possible to re-edit the template and correct this but this error has now been corrected.
10	Bug Fix	Convert to Axle	Previously the convert to axle function would incorrectly copy over the mass properties. Properties were shifted by one such that the user could lose the entered definitions. This has been resolved.



11	Bug Fix	Model Properties	Some users were experiencing problems in the model properties tree dialogue. The issue has been identified and resolved.
12	Bug Fix	STL External File	When adding the first external STL file to your model the suspension 'End' selection box was not populated. This has been resolved.
13	Bug Fix	INI File	It was possible for an undefined integer variable to become written into the INI file, this could cause an error when next running the application as the INI file is read in. This possible issue has been resolved.
14	Bug Fix	INI File	The potential for undefined strings being stored in the INI file was identified and resolved. Whilst this would not have generated any issues it did make debug and reading of the INI file unclear.
15	Bug Fix	Load Session	The browser labelling for the action of loading a session file was incorrect. It was presented as a 'save' action instead of the 'load' function. Corrected.
16	Bug Fix	Load Session	To improve the robustness of the 'Load Session file' function a number of changes have been added. Primarily this was related to correctly re-creating the toolbar and the associated buttons. Previously it was possible to get orphaned buttons and non-functioning icons.
17	New	Reset Defaults	Previously some users found it necessary to delete their INI file to revert back to the internal default settings. A function has been added under the 'File / INI Files' menu to do this action from within the software.
18	Bug Fix	Graphs	A potential problem has been identified with graph plotting of a rear graphical result. In some cases it was possible for this graph to attempt to retrieve its settings from an incorrect location resulting in a program crash. This has been resolved at this release.
19	Bug Fix	Calculated Graphical Properties	The calculation of a graphical elements property was found to have the potential to not be calculated when in the compliance mode. This has been resolved.
20	Bug Fix	Steerable Twin Ball Model	A problem was identified where the inclusion of some calculated points to the model caused the calculation of the small steer perturbation results for twin outer ball joint models to be lost. This has now been resolved.