

Part 1: Mod File Structure

Within your mod file you will need the following in bold for your saddles. If you are using custom models and not just editing the XML, you will also need to follow part 4 of my guides for how to export custom models.

```
- mod_name
        - classes
                 - customization_presets
                 - engines
                 - gearboxes
                 - suspensions
                 - trucks
                          - addons
                          - cargo
                          - trailers
                          - vehicle_name_tuning
                 - winches
        - meshes
                 - trucks
                          - addons
                          - cargo
                          - trailers
                          vehicle_name_tuning
        - textures
                 - trucks
        - ui
                 - textures
```

Part 2: Truck XML File

This file will be saved within the **classes/trucks** folder. Within the truck's xml file you will need the following to make the trailers attachable. Also note that (0.000; 0.000; 0.000) represents the origin and will need adjusting to fit your mod.

```
        808
        <Socket</td>

        809
        Names="LargeSemitrailer, LargeSemitrailerOiltank"

        810
        Offset="(0.000; 0.000; 0.000)"

        811
        CablesName="env/trailer_cable"

        812
        TruckCablesPos="(0.000; 0.000; 0.000)"

        813
        ParentFrame="BoneChassis_cdt"

        814
        />

        815
        <Socket</td>

        816
        Names="SemitrailerCat770g"

        817
        Offset="(0.000; 0.000; 0.000)"

        818
        ParentFrame="BoneChassis_cdt"

        819
        />

        820
        <Socket</td>

        821
        Names="Goosenecktrailer"

        822
        Offset="(0.000; 0.000; 0.000)"

        823
        ParentFrame="BoneChassis_cdt"

        824
        />

        825
```

You will also need to add a saddle addon tag for any trailer that also requires a saddle to be equipped:

This will need to match the corresponding trailer's install sockets. For example, SaddleLow, SaddleHigh etc.



Part 3: Trailer Install Sockets

The trailer XML file will be saved within the **classes/trucks/trailers** folder. Within the file, you will need the following to make your trailer compatible with each saddle type:

Scout Trailers:

Bumper-Pull Trailers:

Low Saddle Semitrailers:

High Saddle Semitrailers:

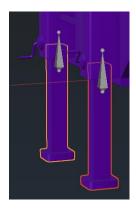
Special Mining Trailers:

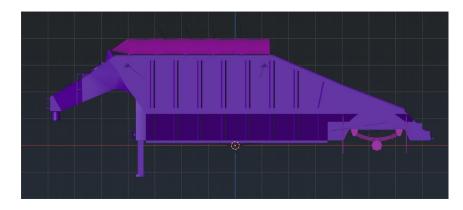
Gooseneck Trailers:

Again, note that (0.000; 0.000; 0.000) represents the origin and will need adjusting to fit your mod. Additionally, if you do not want the trailer to use the vanilla trailer wires and breakline pipes, then you should remove lines 658, 666, 674 and 682 respectively.

Part 4: Trailer Legs

Within the Trailer 3D file, you will need to separate the legs into their own objects and parent them to either a single bone between the two, or a bone each You should also note the location of the base of the feet. For example, the feet are at the positions: 3.5X, -1.2Y, 0.8Z and 3.5X, -1.2Y, -0.8Z







Within the TruckData tags, you should then add a foot origin tag using the feet positions:

```
<Foot Origin="(3.500;-1.200; 0.800)" />
<Foot Origin="(3.500;-1.200;-0.800)" />
```

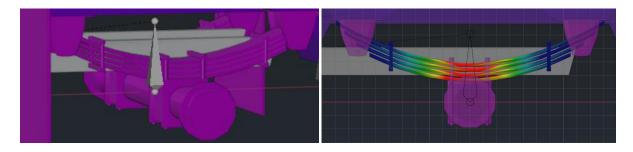
This allows the trailer to spawn into the game with the feet above the ground.

The next step is to define the trailer leg bones, and their powered constraints in order to get them to autoretract and extend when a trailer is connected to a truck. For example, the below are what the GGMS Heavy Gooseneck Trailer uses:

*Note: The ID must be exactly as above for the feet to auto activate.

Part 4: Trailer Axles, Suspension & Wheels

In order to get axles to be animated, and have the suspension 'flex', you will need an axle bone for each axle. The bone should be positioned in the centre of the axle, with the suspension weighted between the chassis and the axle bone as follows:



Then in the trailer XML file, within the TruckData tags, you will need to define the axle bone:

```
<Axles>
    <Axle Frame="BoneAxle" ParentFrame="BoneChassis_cdt" />
</Axles>
```



You will also want to define the axle suspension info, wheel location and wheel types. Here I make use of templates at the start of the XML to increase the readability of the code:

The wheel info should be within the TruckData tags: