ADDAX MT SERVICE BOOKLET

SERVICE INSTRUCTIONS

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Maintenance plan

Month	12	24	36	48	60	72	84	96
Km x 1000	10	20	30	40	50	60	70	80
12V Auxiliary Battery Inspection	•	•	•	•	•	•	•	•
Brake Fluid Inspection	•	•	•	•	•	•	•	•
Brake Fluid Replacement		•		•		•		•
Brake Pads Front and Rear Inspection	•	•	•	•	•	•	•	•
Brake Pedal Contactor Inspection		•		•		•		•
Handbrake System Inspection	•	•	•	•	•	•	•	•
Door L/R Inspection	•	•	•	•	•	•	•	•
Mirrors L/R Inspection	•	•	•	•	•	•	•	•
Gas Pedal Contactor Inspection		•		•		•		•
Main Charger Inspection	•	•	•	•	•	•	•	•
Controller Unit Inspection		•		•		•		•
Main Battery Inspection		•		•		•		•
Steering Column and Steering Rack Inspection	•	•	•	•	•	•	•	•
Tyres Inspection	•	•	•	•	•	•	•	•
Suspension Front L/R Inspection	•	•	•	•	•	•	•	•
Suspension Front Upper & Lower Arm L/R Replacement				•				•
Suspension Rear Torque Bar Inspection	•	•	•	•	•	•	•	•
Suspension Rear Torque Bar Replacement				•				•
Suspension Rear Torsion Bar L/R Inspection	•	•	•	•	•	•	•	•
Suspension Rear Torsion Bar L/R Replacement				•				•
Shock Absorbers Front and Rear Inspection	•	•	•	•	•	•	•	•
Shock Absorbers Front and Rear Replacement				•				•
Rear Axle Inspection	•	•	•	•	•	•	•	•
Transmission Fluid Replacement	•	•		•		•		•
Windshield Wiper System Inspection	•	•	•	•	•	•	•	•
Windshield Wiper Blade Replacement		•		•		•		•
Power Steering Inspection (Option)		•		•		•		•
Heater Inspection (Option)	•	•	•	•	•	•	•	•
Chassis Corrosion Inspection				•				•

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Service Instructions

- The purpose of this manual is to give additional information on the maintenance schedule
- Specific tasks related to Addax vehicles are explained with more detailed information
- The maintenance should be carried out by technically trained personnel
- When working on an electric vehicle, make sure you always work safely and know how to switch off the power if necessary
- An overview of the location of the most important components can be found on the last pages

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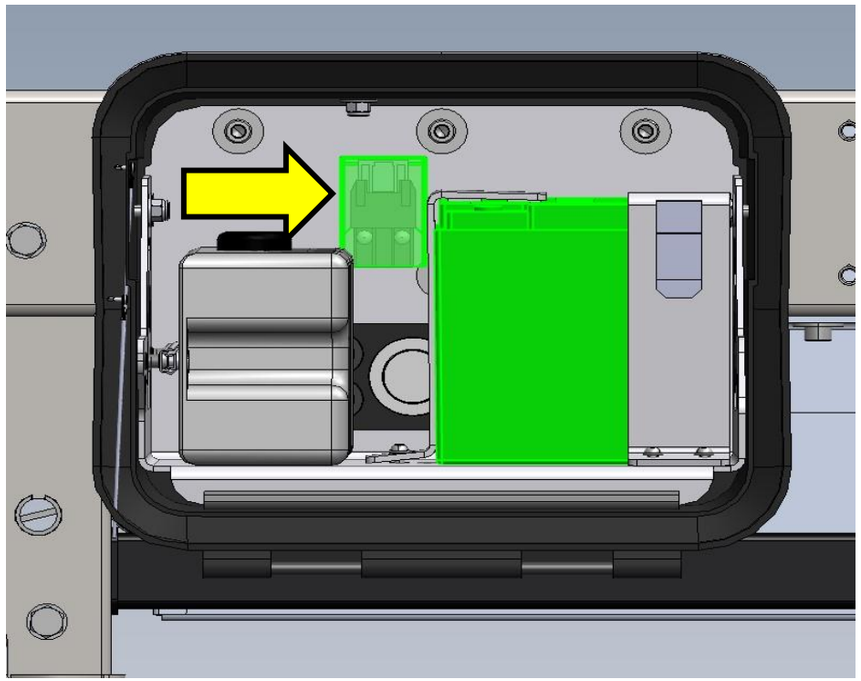
12 V Auxiliary Battery Inspection



- Locate the auxiliary battery (Page 40)
- Measure the voltage with ignition switch OFF- KEY-ON
- Expected Result OFF > 12,0 V
- Expected Result KEY-ON > 13,7 V
- Check all connections
- Check for possible water infiltration
- Check condition of Main Fuse 40A (alternatively 30A)

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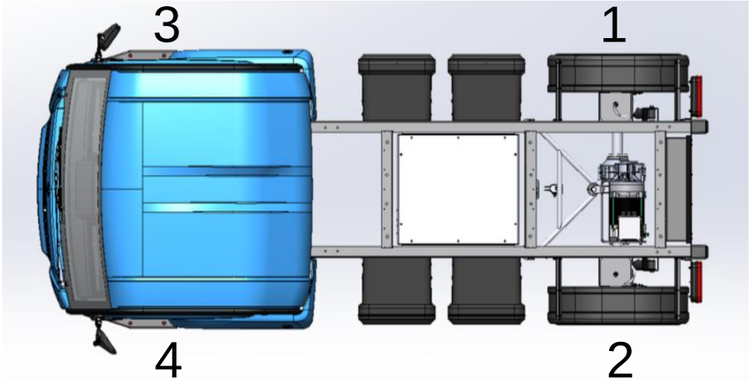
Brake Fluid Inspection

- Check all brake lines for leaks
- Check all brake lines for signs of wear and ensure they are correctly routed through the chassis
- The brake fluid should be clear or have a light brown color, if not replace it sooner



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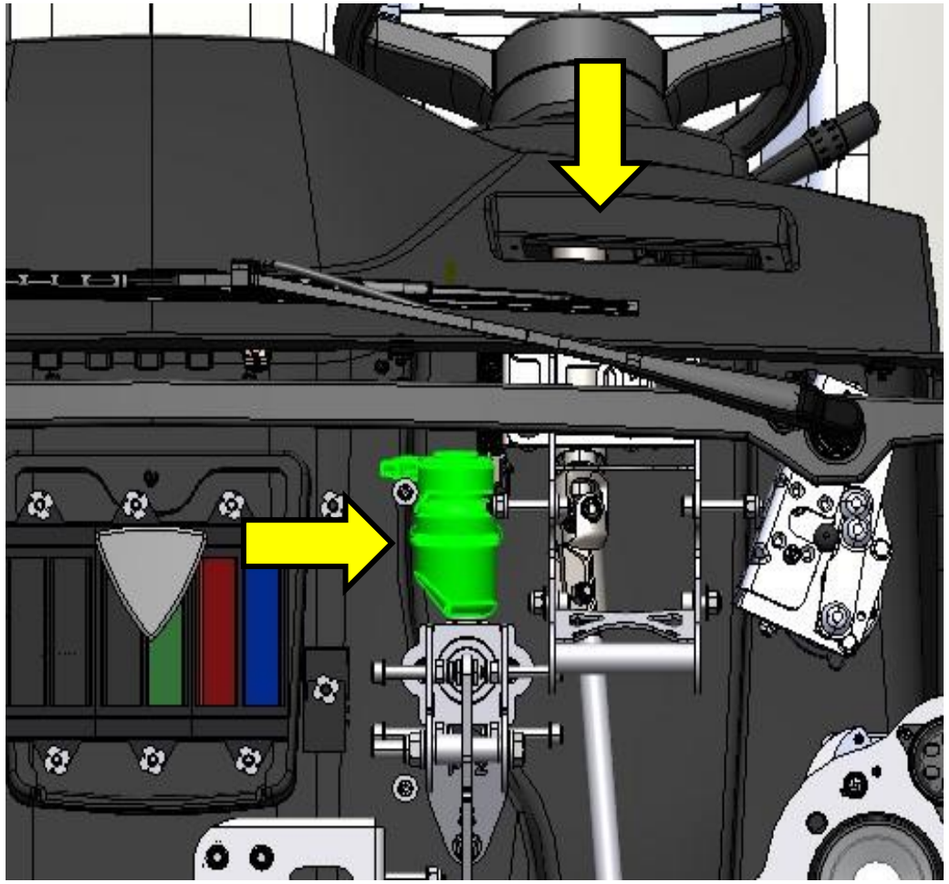
Brake Fluid Replacement



- The brake reservoir is located just below the steering wheel , remove the inner lid to gain easy access
- When changing the brake fluid, start with wheel number 1 as shown on the previous page
- Addax recommends the use of DOT 4 brake fluid
- Brake fluid is a very corrosive substance, be careful when replacing it

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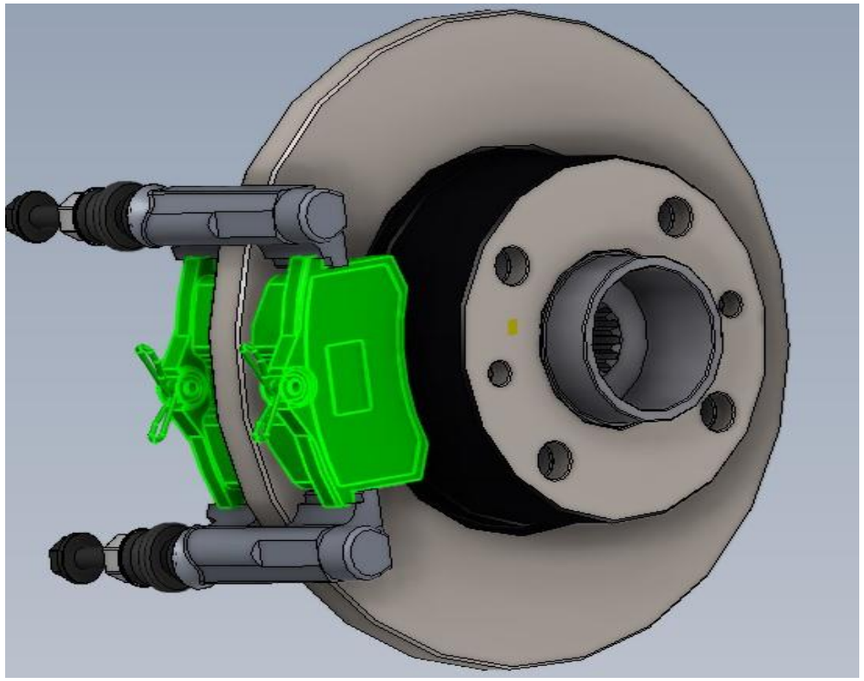
Brake Pads Front / Rear Inspection



- Check worn out and thickness of front brake pads
- Check worn out and thickness of rear brake pads
- The wear limit is 3 mm
- When replacing the rear brake pads a special tool is required to push the brake pistons back

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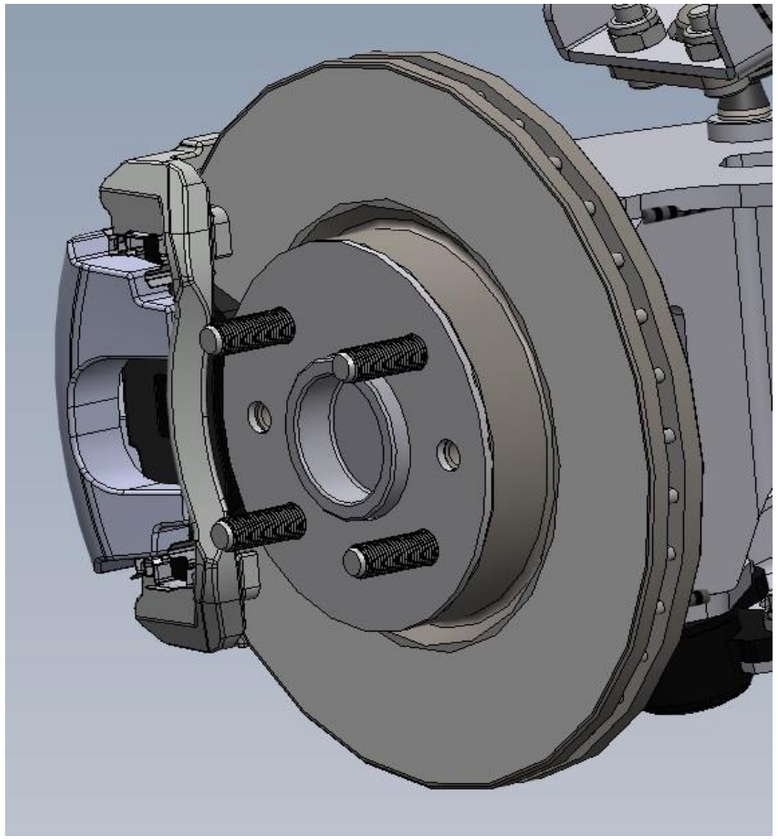
Brake Disc Front / Rear Inspection



- Check both surfaces of brake discs for heavy rust, scoring and uneven wear
- Run your fingernail across the rotor surface.
- If your nail catches in deep grooves, the rotors should be machined or replaced as a pair.

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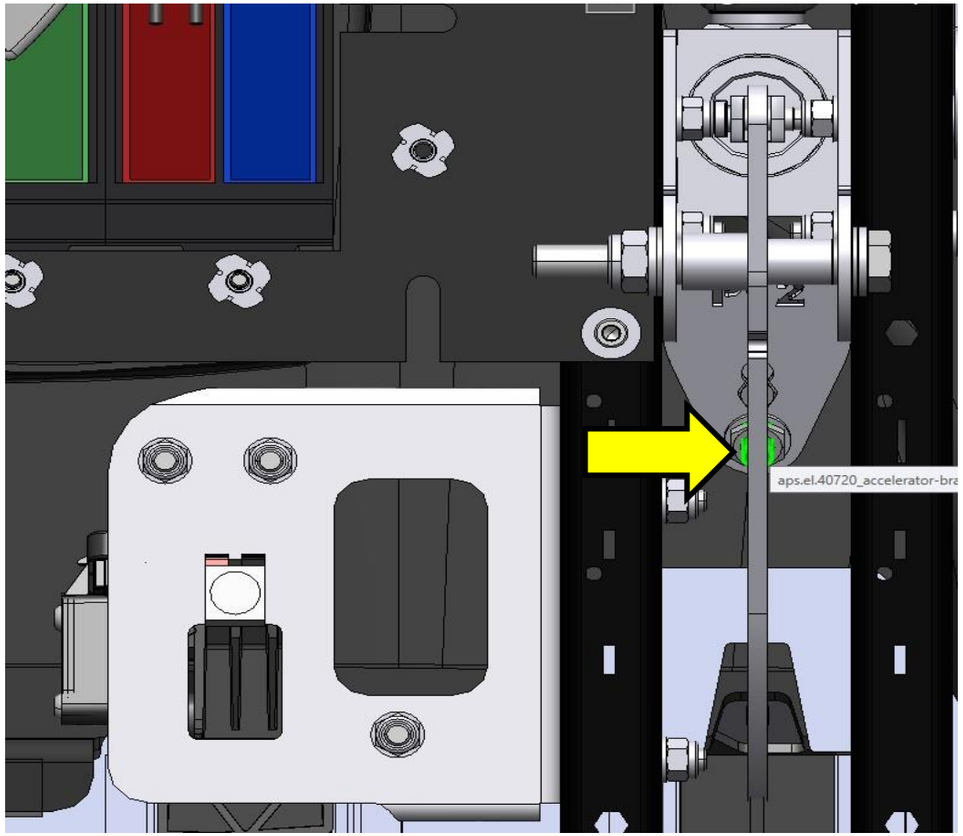
Brake Pedal Contactor Inspection



- Nose panel removed (Page 36)
- Location of the contactor (Page 37)
- Check that nothing is loose
- Check that the contact moves smoothly
- Check electrical connections

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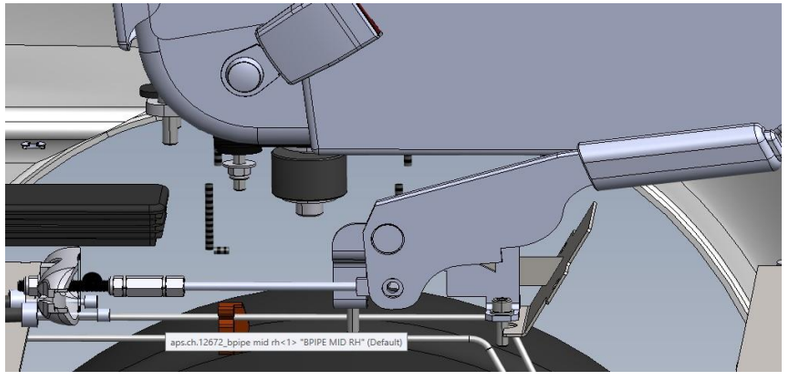
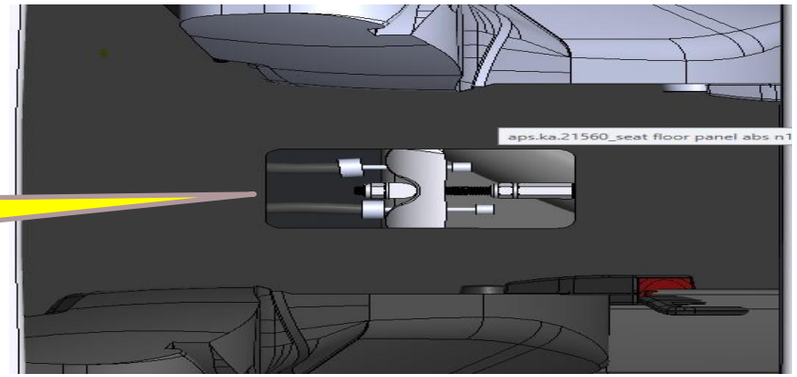
Handbrake System Inspection / Adjustment





- Check contact & setting of the handle. Grease cables and adjust if needed. Check status of the swivel clips.
- The handbrake adjustment is located between the 2 seats
- On the N1 model, you can see a cover and remove it to get easy access
- On the L7 model, this must be done via the bottom

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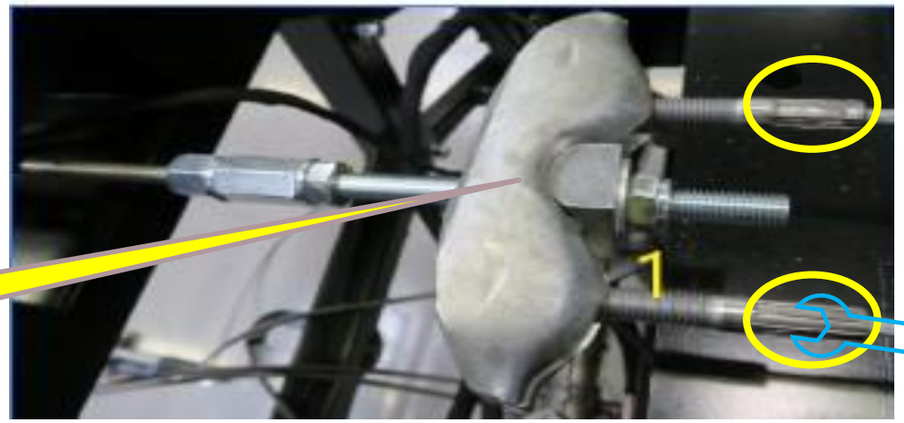
Handbrake System Inspection / Adjustment



Controller

- Vehicle must be on a flat surface
- Release locknut number 1
- Pump the brake pedal 10 times and apply the parking brake 3-5 times
- Check how far the lever is from the stop (See picture on the next page)
- Adjust it for each side with locknut number 2-3 while holding the cable with a spanner 7 until the play is set to 1 mm

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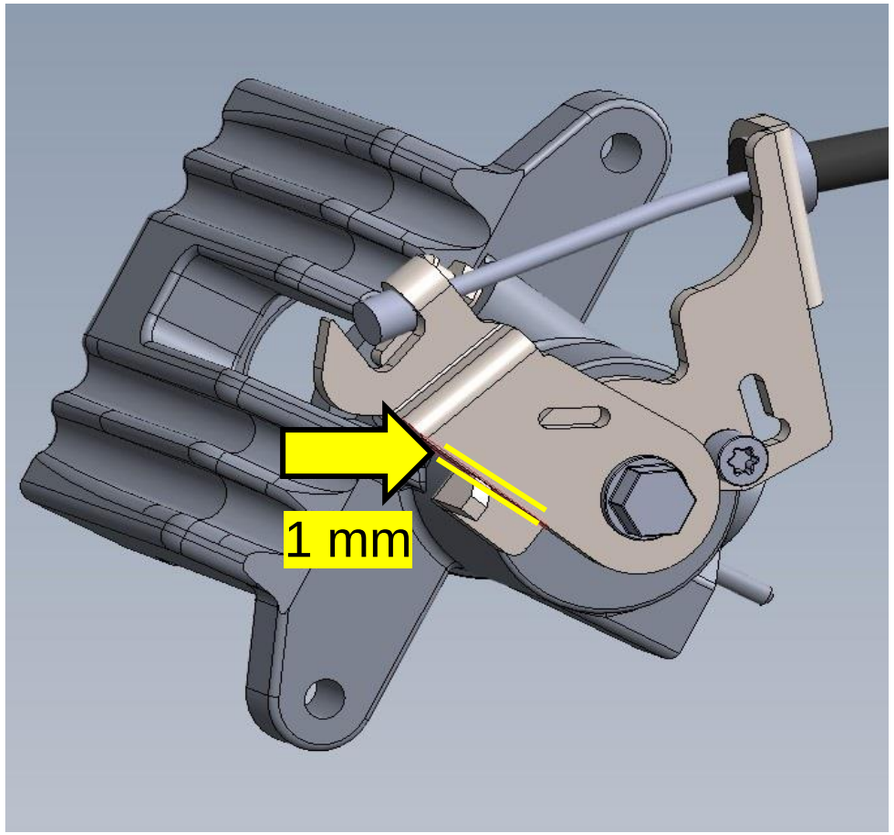
Handbrake System Inspection / Adjustment



- Position the controller nicely in the middle
- If everything is in order, retighten all the nuts
- To test the handbrake; pull it 4-5 clicks upwards and you should not be able to move the car by hand

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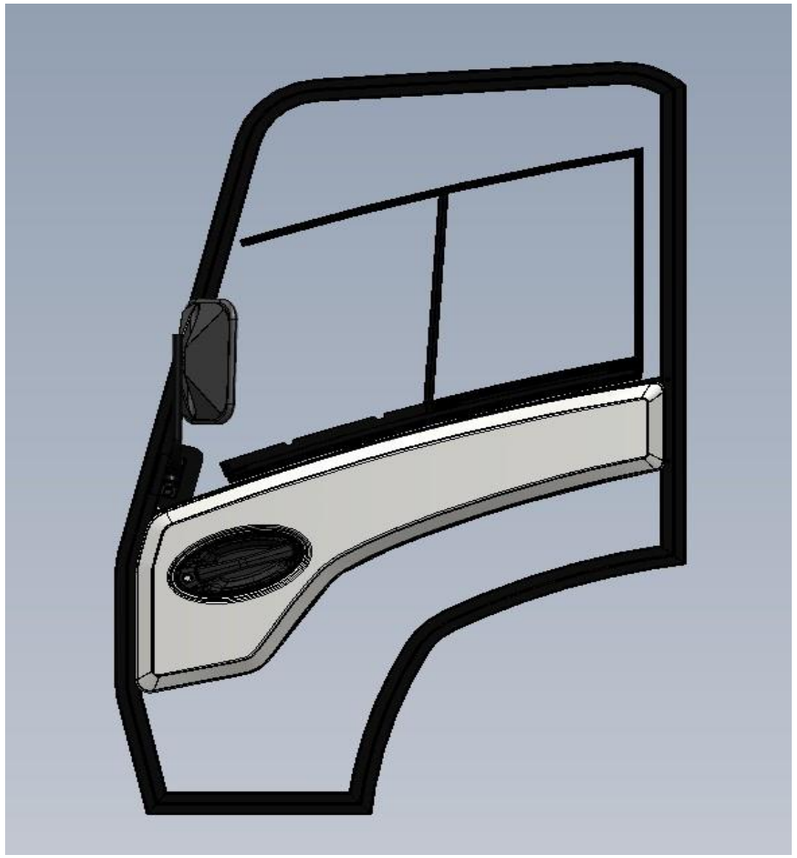
Doors + Mirrors L/R Inspection



- Check that the door opens and closes smoothly
- Check that the door is in line with the cabin frame to avoid water infiltration
- Ensure that nothing is loose
- Grease all moving parts
- Check if both mirrors are not loose

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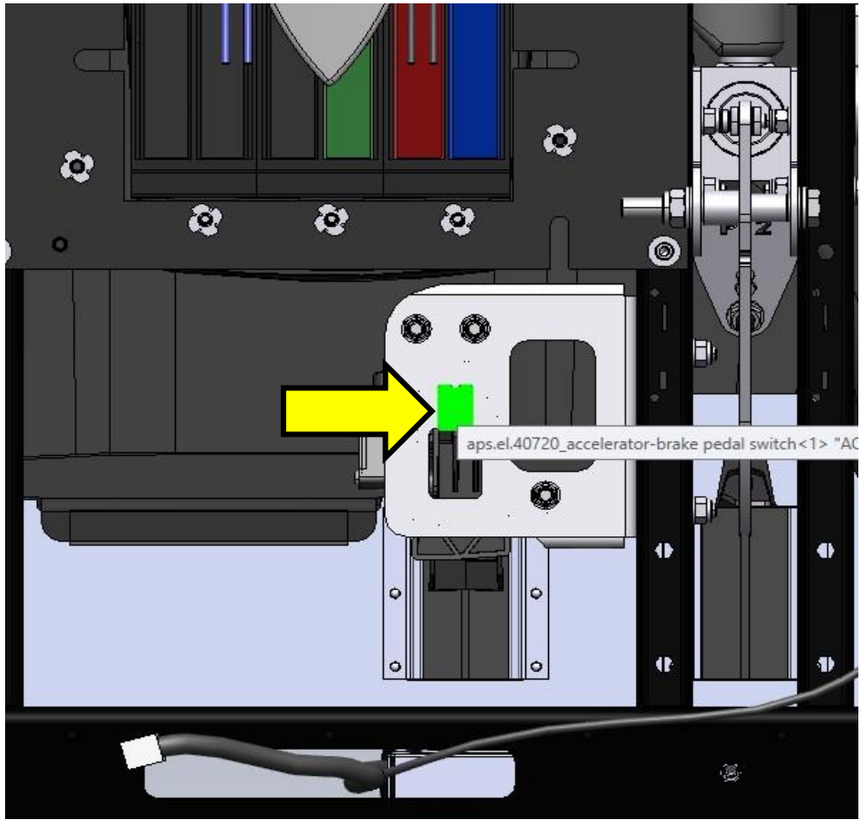
Gas Pedal Contactor Inspection



- Remove nose panel (Page 36)
- Locate the contactor (Page 37)
- Check that nothing is loose
- Check the electrical connections
- If necessary, change the distance to 10 mm

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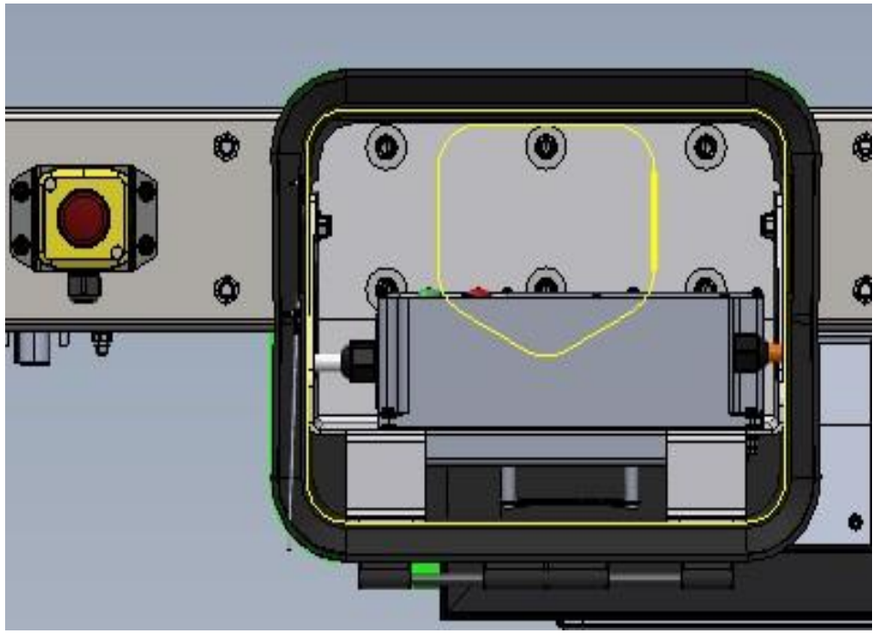
Main Charger Inspection



- Locate the main charger (Page 39)
- Check general state and function
- Check all electrical connectors
- Check both orange power cables
- Check for possible water infiltration

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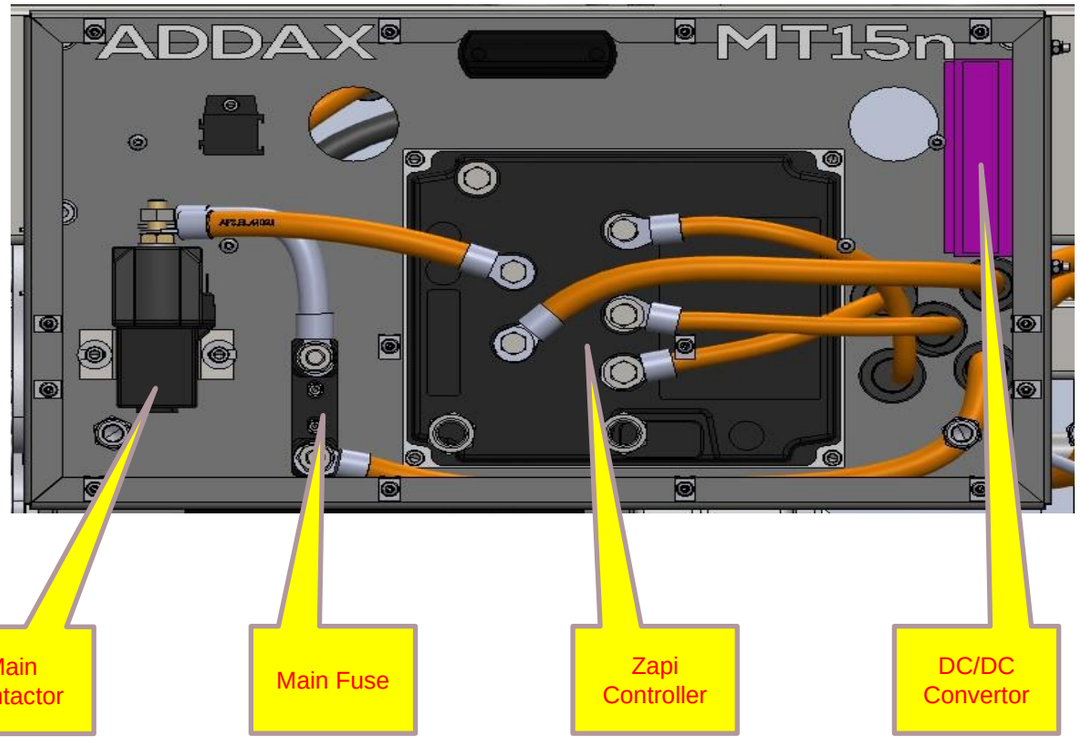
Controller Unit Inspection



- Locate the controller box (Page 38)
- Open the controller box and perform a visual check for water infiltration, condensation, bad wiring , …..
- Inspect the main contactor carefully
- Check the condition of all fuses, check for burn marks and replace it if necessary
- Check that all bolts and nuts are still tight

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Steering Column inspection

- Remove the nose panel (Page 36)
- Check steering column, clean universal joints from the frontside
- Check that all bolts and nuts are still tight
- Look for distortion
- Look for signs of excessive rust
- Replace if necessary

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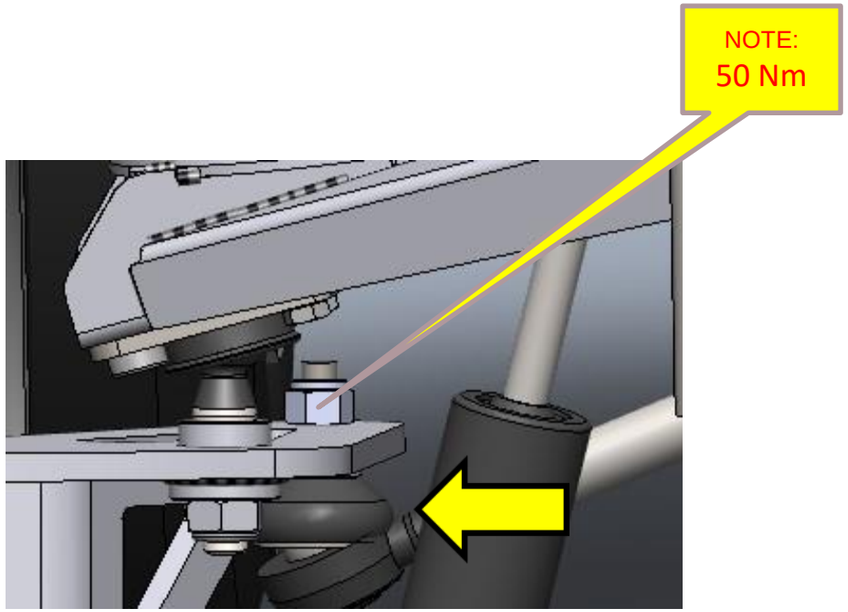
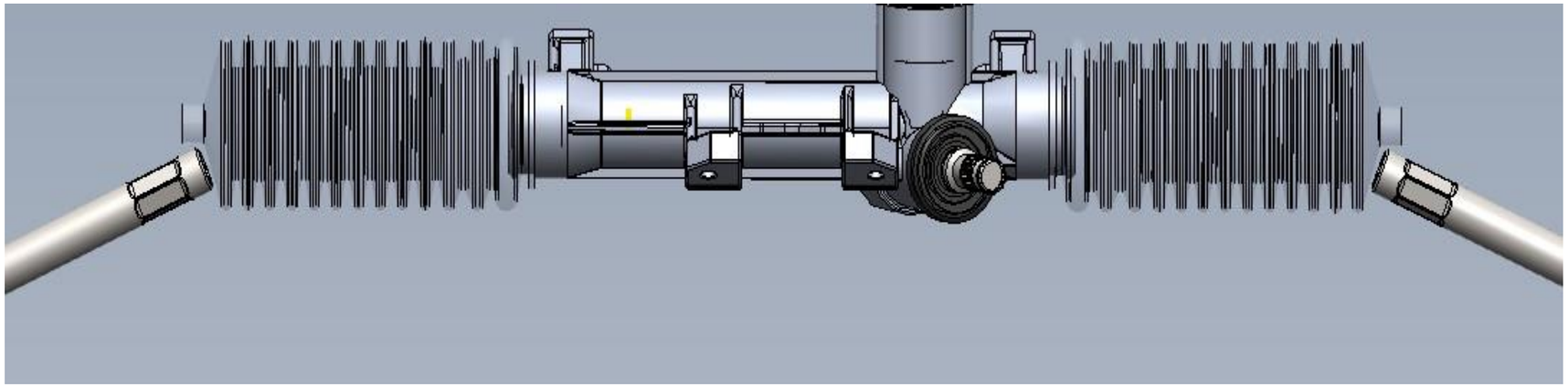
Steering Rack inspection

- Check steering rack and rubbers
- Check steering ball joint
- Check that all bolts and nuts are still tight
- Look for distortion
- Look for signs of excessive rust





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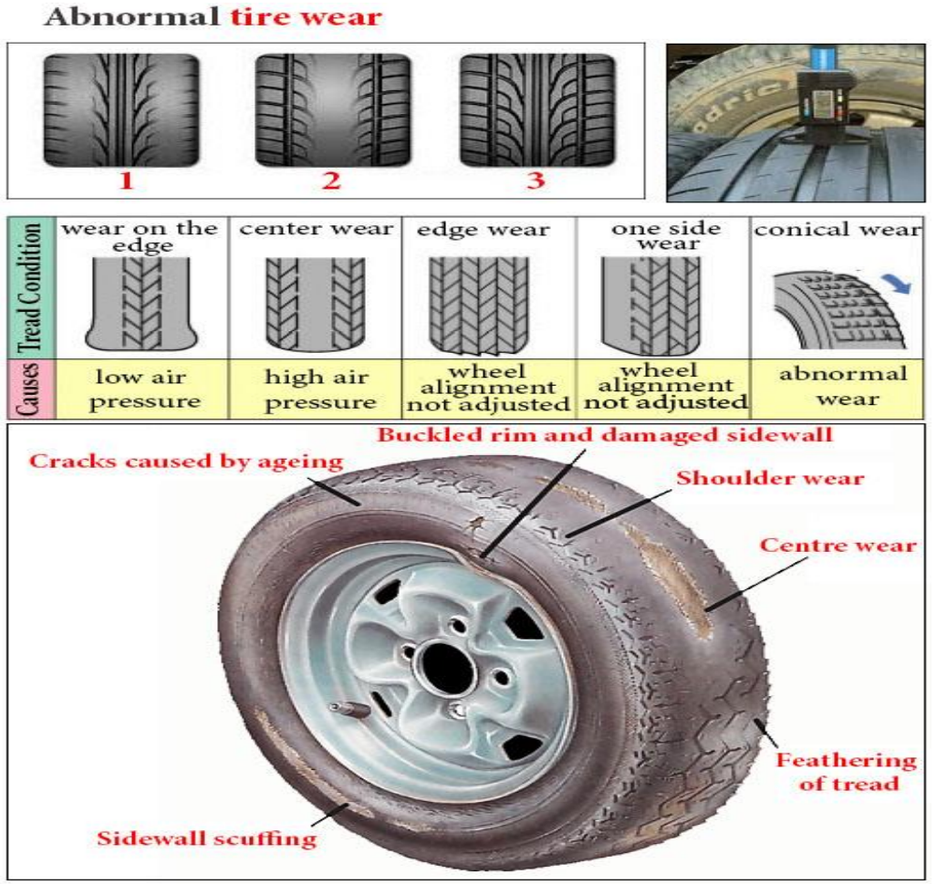
Tyres Inspection - Replacement



- Look at the tread and sidewalls for any cuts, scrapes, punctures, bulges, bumps or cracks. Replace if necessary
- Check tread depth : minimal 1,6 mm
- Check tire pressure every month
- Correct value : 2.5 ~3.0 Bar
- Set the wheelnuts to the specified torque : 120 Nm

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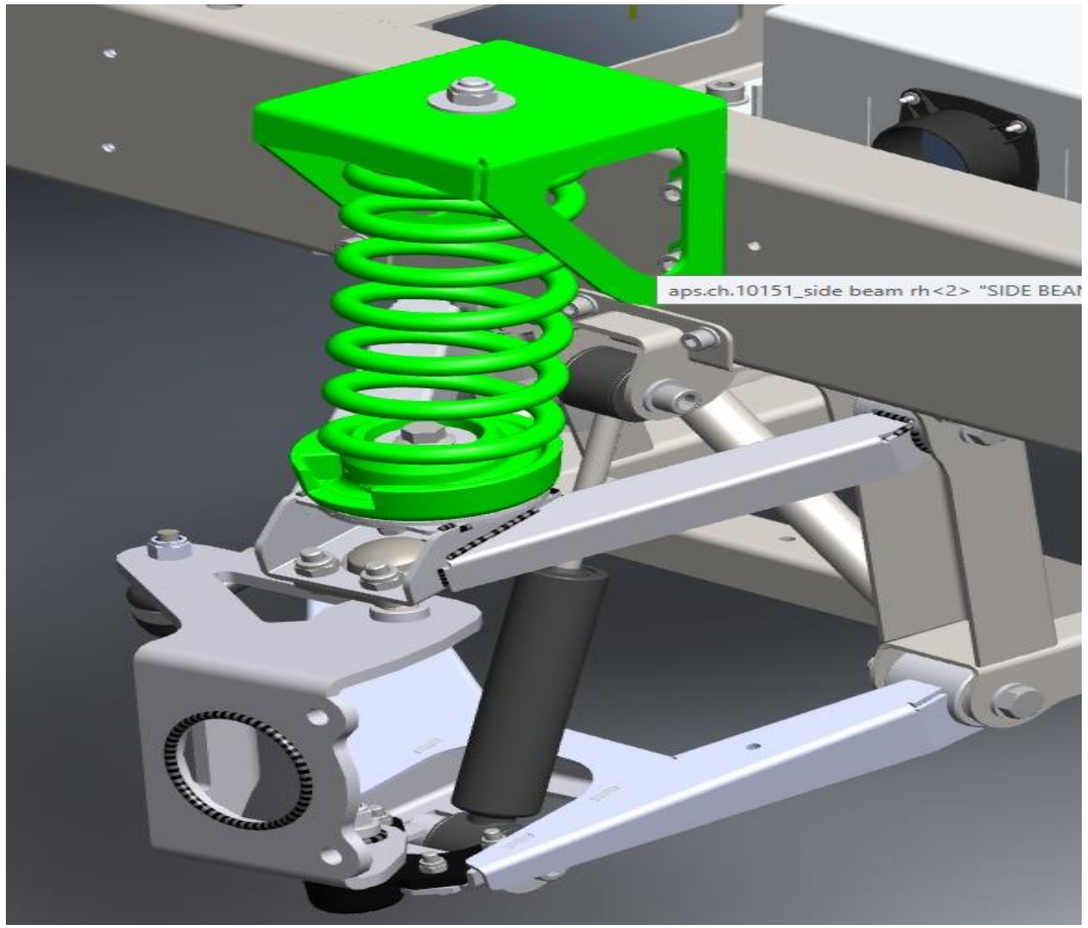
Suspension Front L/R Inspection



- Check that the driving height is the same on both sides
- Check if strut mounts or shock towers are properly secured
- Check condition of springs
- Look for distortion
- Look for signs of excessive rust
- Check anti-noise blocks
- Replace if necessary

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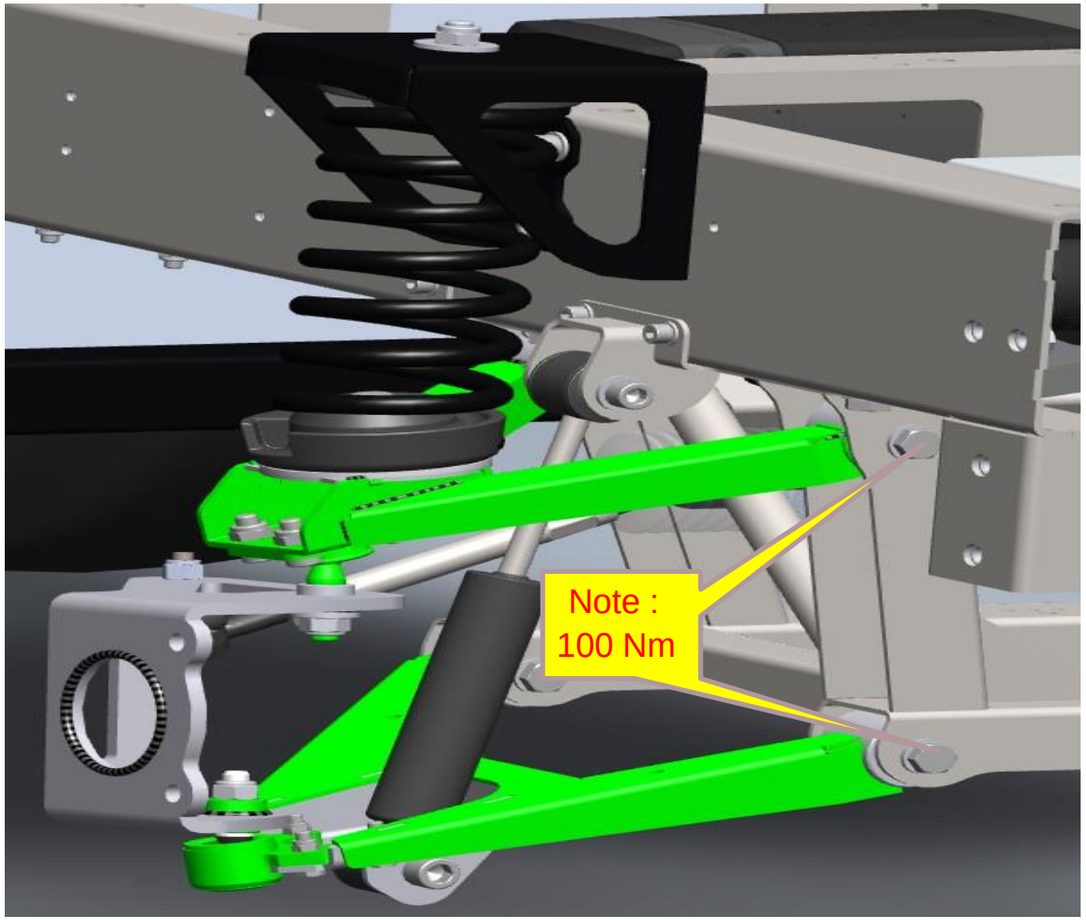
Suspension Front Up/Lwr Arm L/R Inspection



- Check the nuts and bolts used to secure components of the Upper/Lower arms
- Check status of all (8) bushes
- Check status of upper/lower pivots
- Check wheel hub bearings
- Look for distortion
- Look for signs of excessive rust
- Replace if necessary

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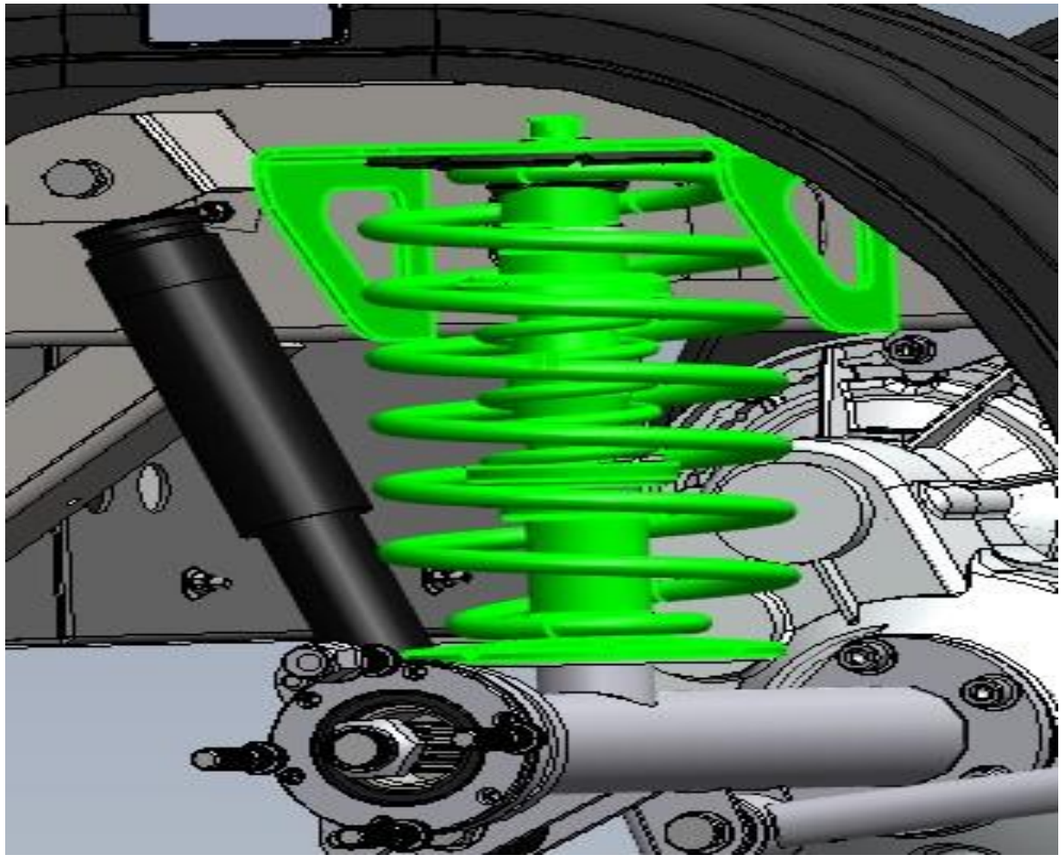
Suspension Rear L/R Inspection



- Check the nuts and bolts used to secure components of the suspension
- Check condition of inner and outer spring
- Look for distortion
- Look for signs of excessive rust
- Check spring damper pads and spring damper axle
- Replace if necessary

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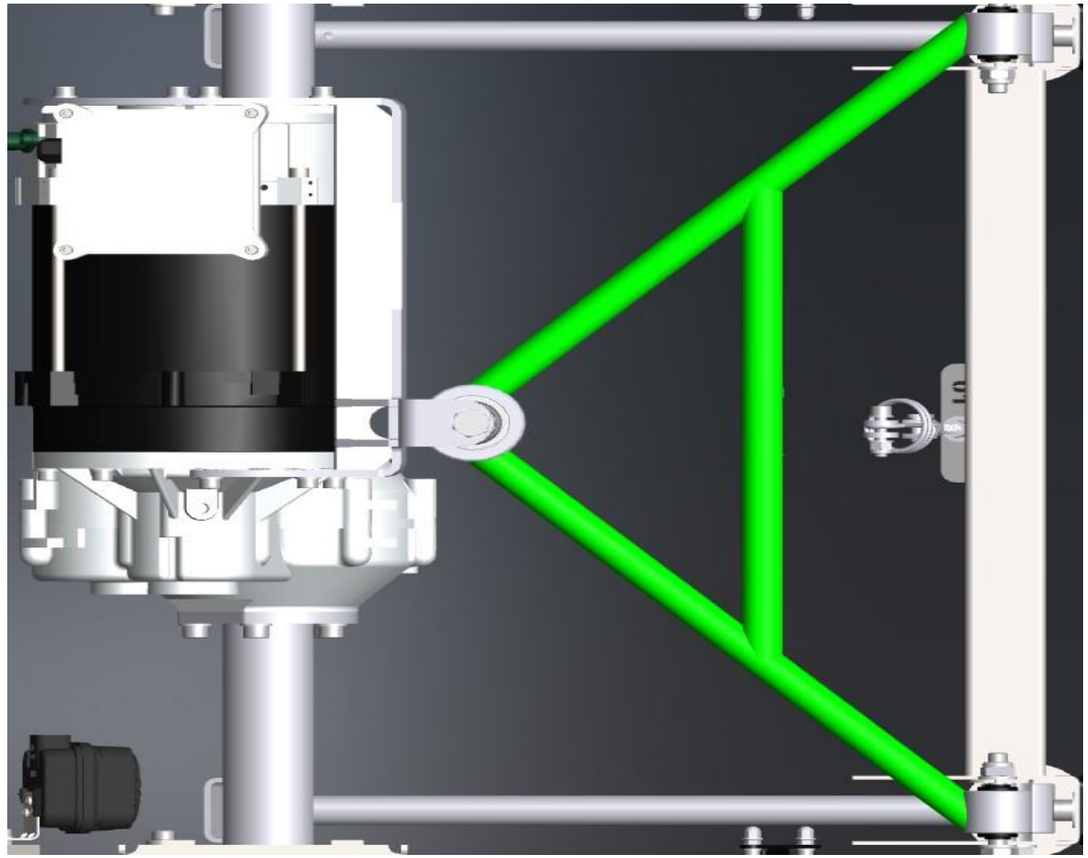
Suspension Rear Torque Bar Inspection



- Check the nuts and bolts used to secure components of the rear torque bar
- Torque Value : 100 Nm
- Check status of all (3) bushes
- Look for distortion
- Look for signs of excessive rust
- Replace if necessary

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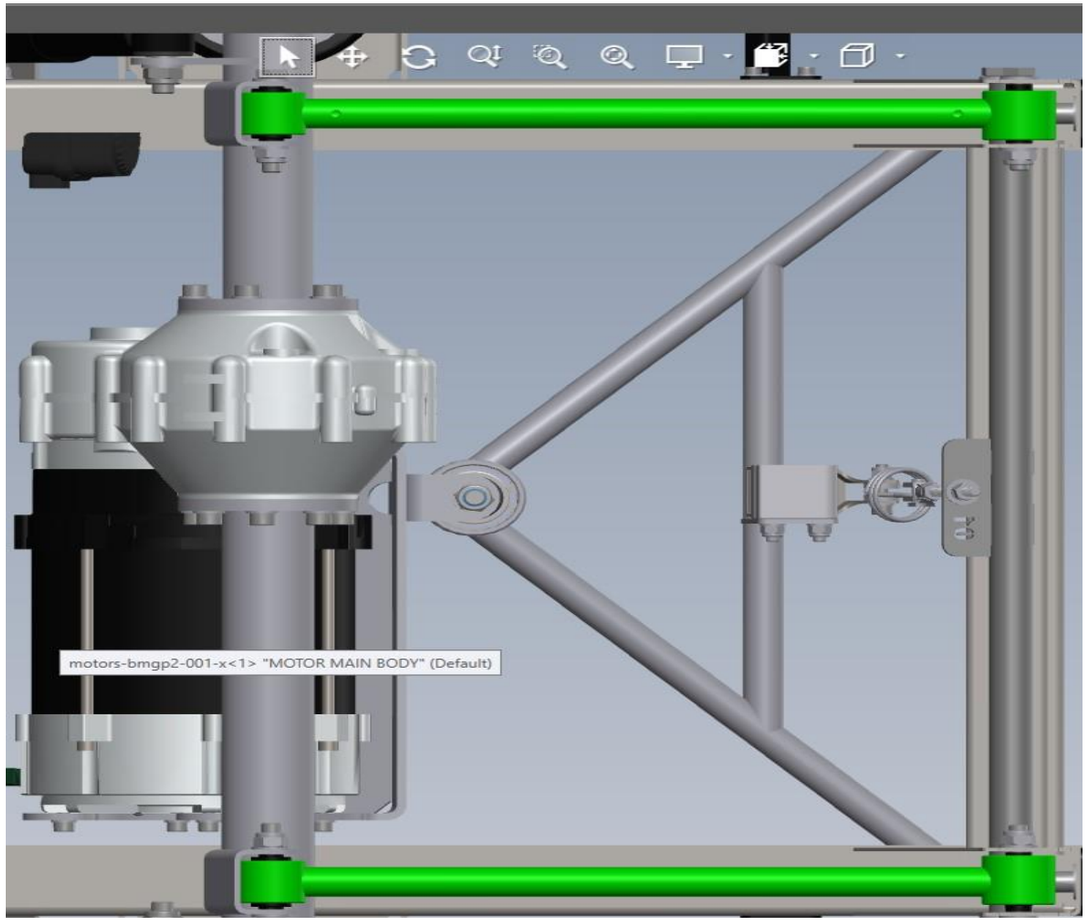
Suspension Rear Torsion Bars Inspection



- Check the nuts and bolts used to secure components of the rear torsion bar
- Torque value : 100 Nm
- Check status of all (4) bushes
- Look for distortion
- Look for signs of excessive rust
- Replace if necessary

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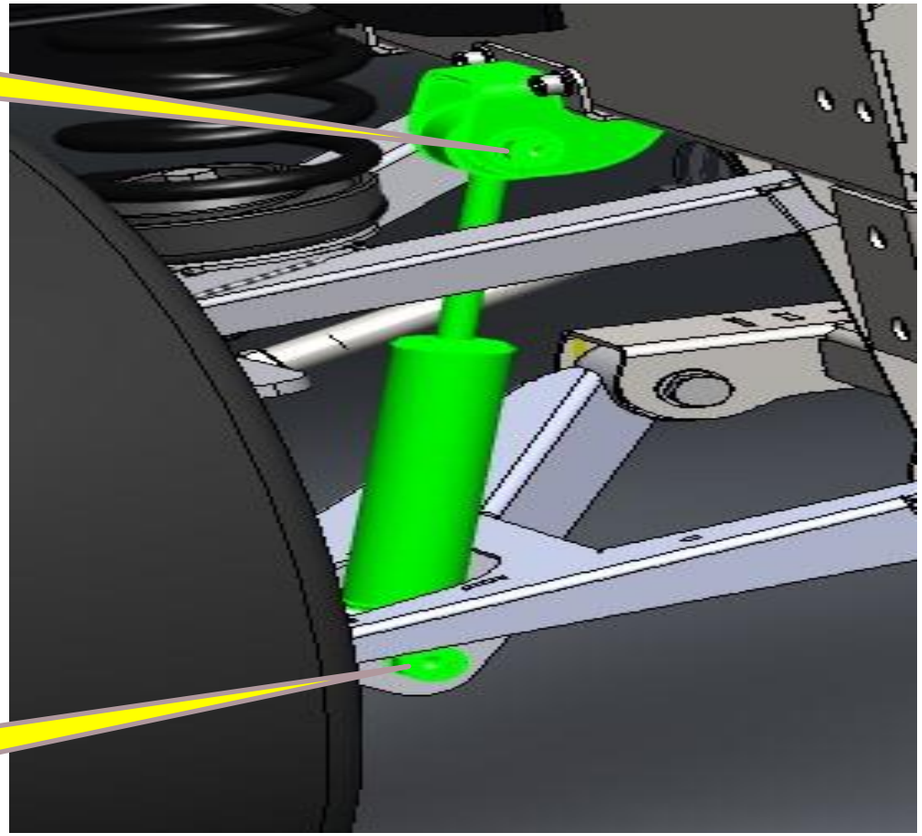
Schock Absorbers Front Inspection



- Check the nuts and bolts used to secure components of the shock absorbers
- Perform a bounce test
- Look for oil leaks
- Look for distortion
- Look for signs of excessive rust
- Replace if necessary

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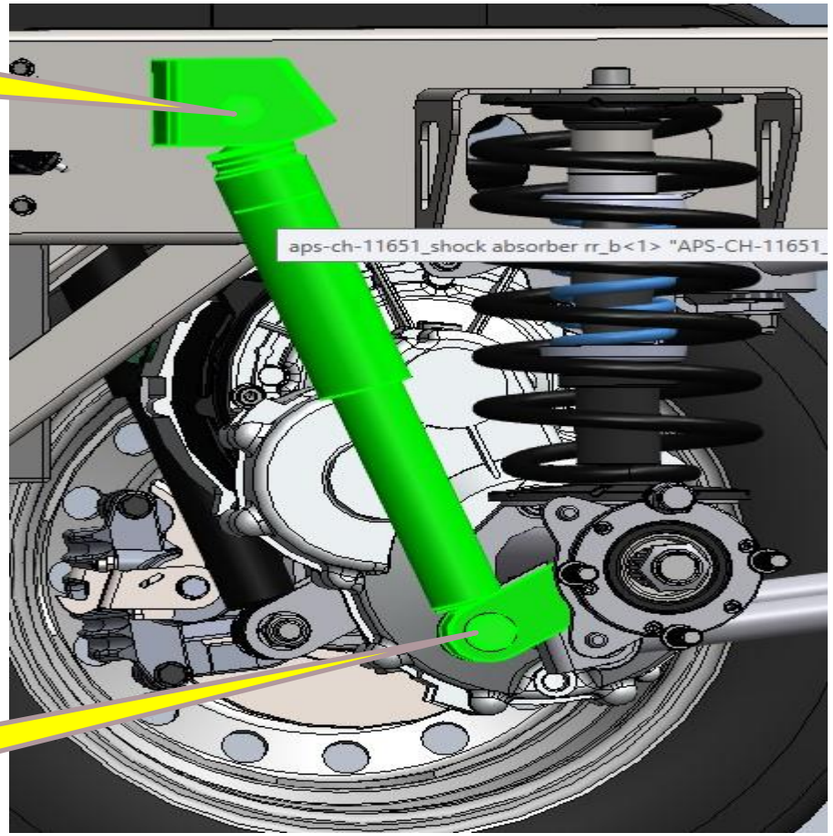
Schock Absorbers Rear Inspection

NOTE:
100 Nm



NOTE:
150 Nm

- Check the nuts and bolts used to secure components of the shock absorbers
- Perform a bounce test
- Look for oil leaks
- Look for distortion
- Look for signs of excessive rust
- Replace if necessary

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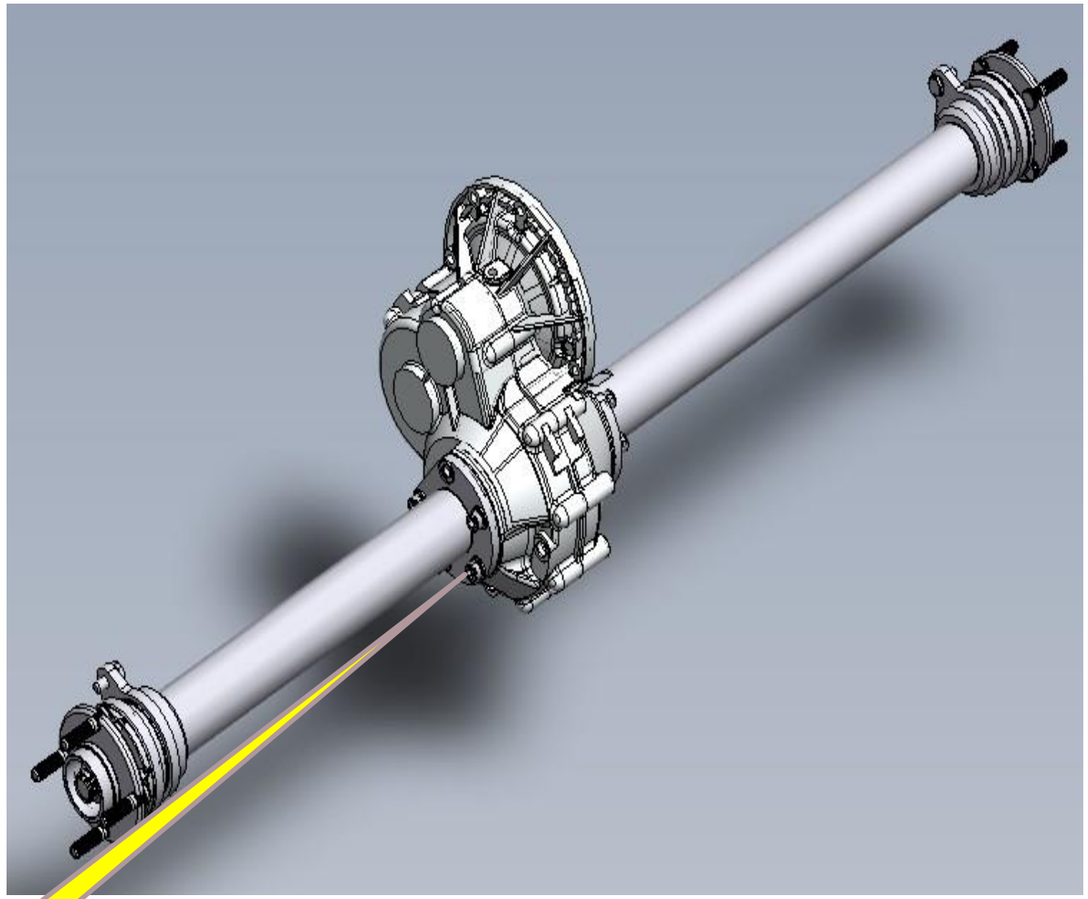
Rear Axle Inspection



- Check the nuts and bolts used to secure components of the rear axle
- Check rear wheel bearings , shafts and differential
- Look for oil leaks
- Look for distortion
- Look for signs of excessive rust
- Replace if necessary

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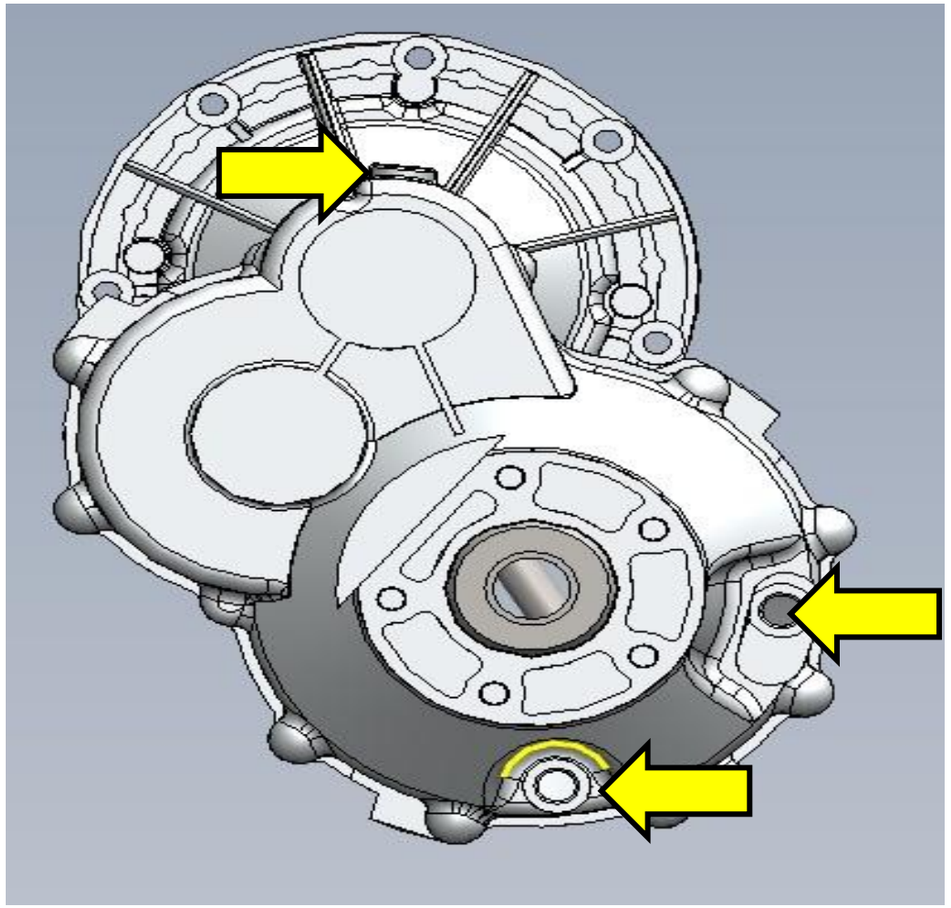
Transmission Fluid Replacement



- Addax recommends the use of diff/gearbox oil 80W90
- Capacity: 0.8 litres
- Loosen the drain plug
- Collect the oil and look if there are no traces of metal.
- Put 0.6 litres of oil into the filling channel
- The remaining 0.2 must be done from the top

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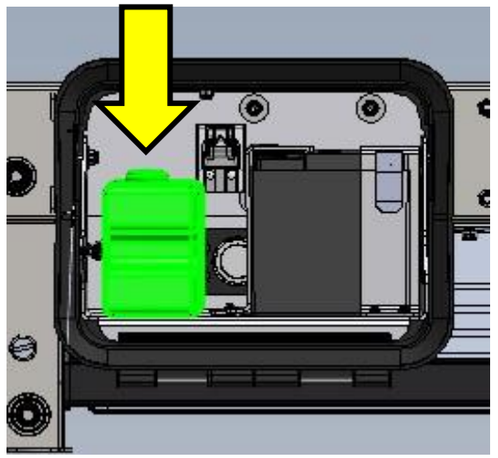
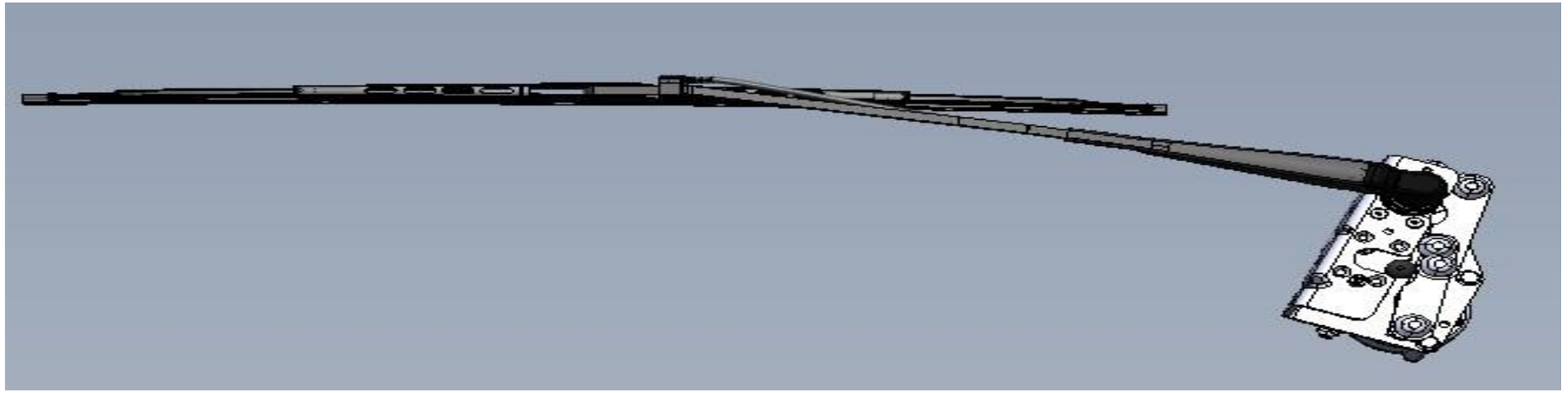
Windshield Wiper System Inspection

- Check the rubber of the windshield wiper blade
- Fill the reservoir (Located in the 12V battery box)
- Check that all bolts and nuts are still tight





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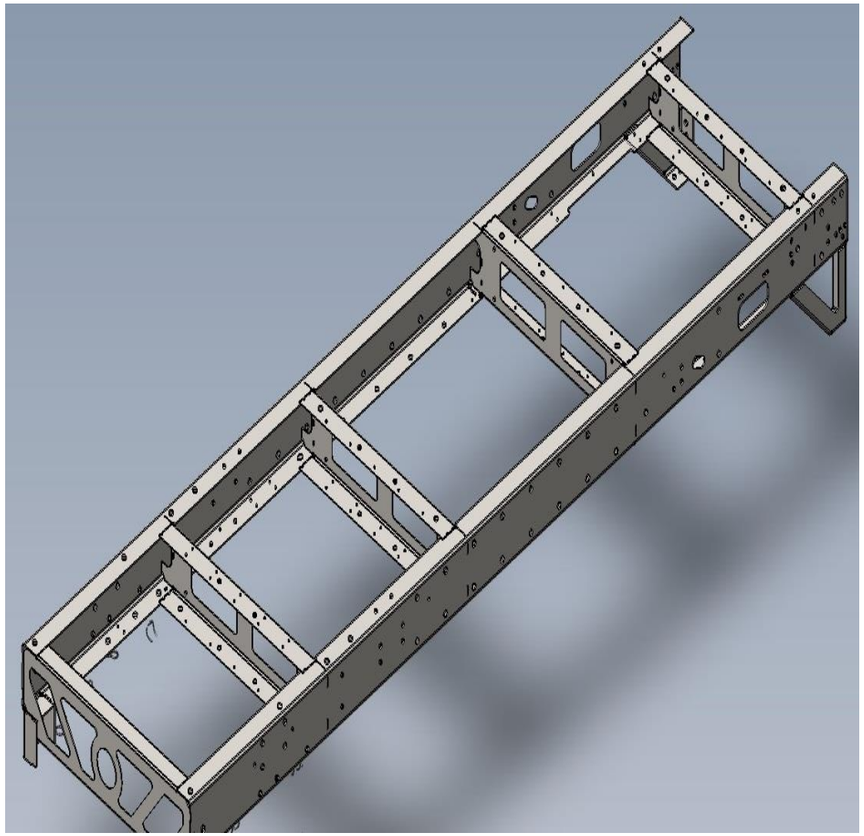
Chassis Corrosion Inspection



- Carry out a thorough analysis of the chassis
- Look in particular for rust spots
- Look also for deformation

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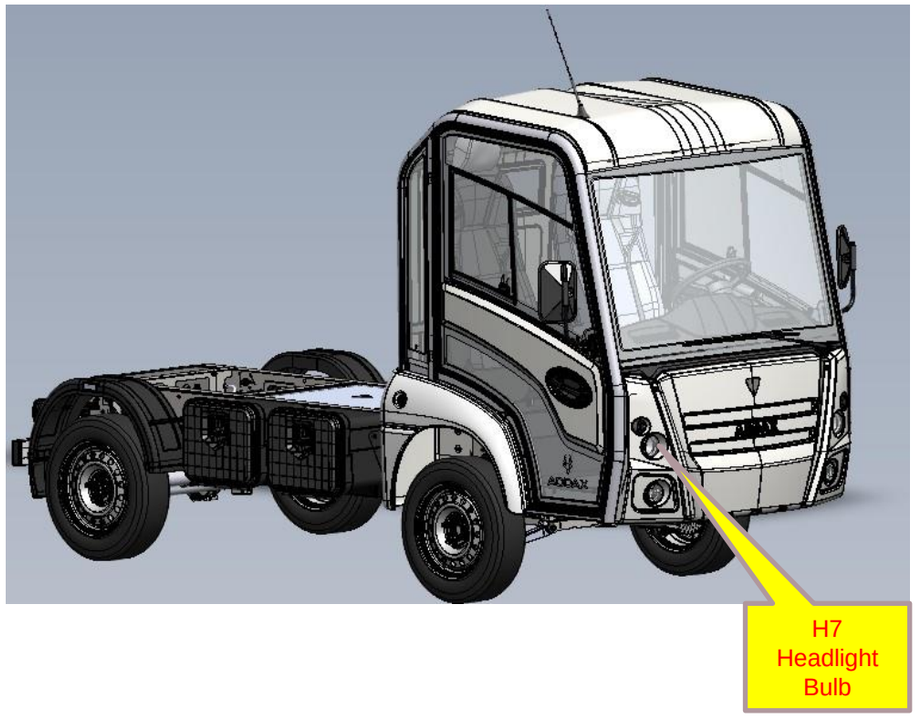
Check All Lichting



- Verify the front lighting of the vehicle
- Verify the rear lighting of the vehicle
- Verify the vehicle's interior lighting
- Check all the buttons and options in the cabin for proper functioning
- Front light can be replaced separately
- Led units to be changed completely

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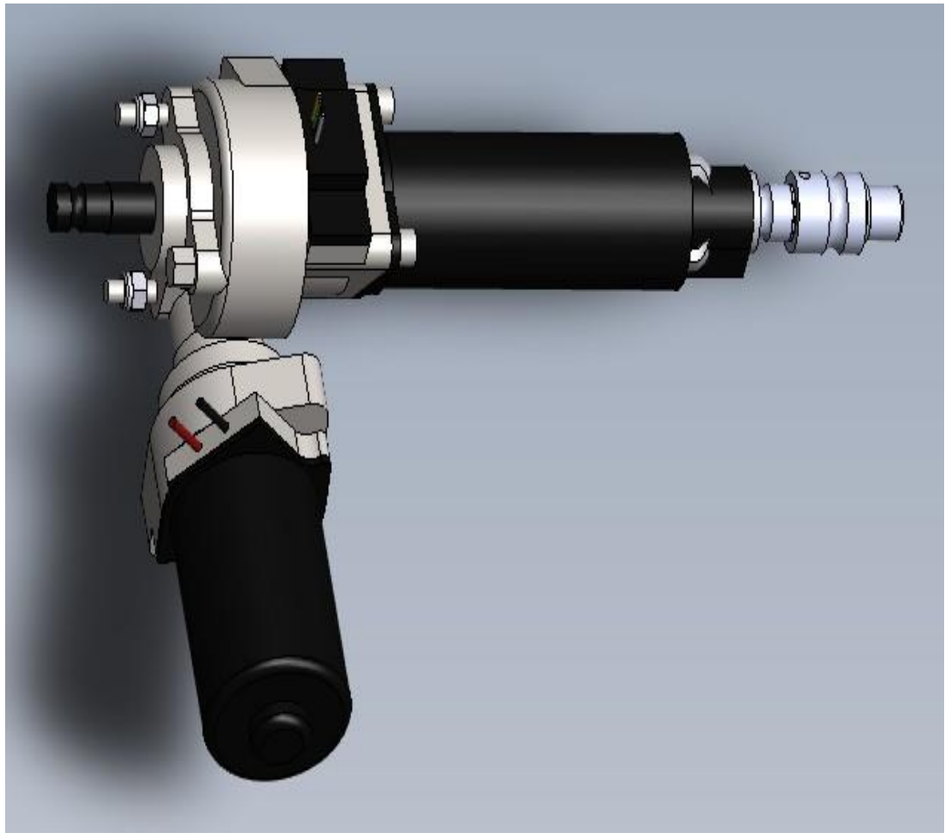
Power Steering Inspection (Option)



- The Power Steering is located just below the cabin frame
- Check the nuts and bolts used to secure components of the Power Steering
- Check the wiring harness and connections
- *Note :Power Steering option has 1 fuse in the fusebox (F11 – 2A) and one of 30A between ECU Wiring and Motor connection*

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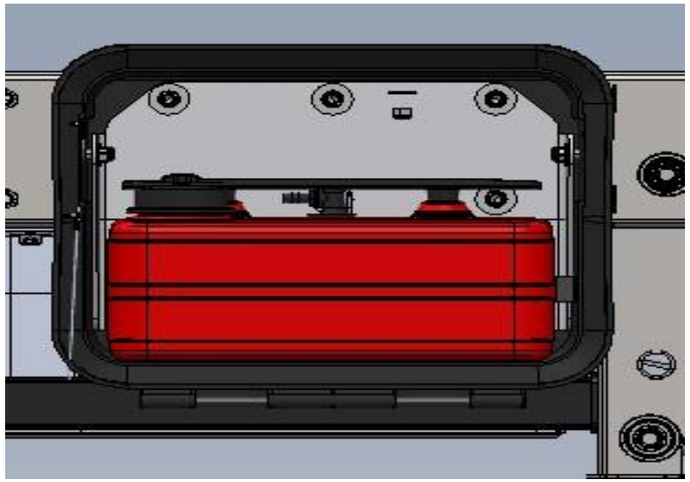
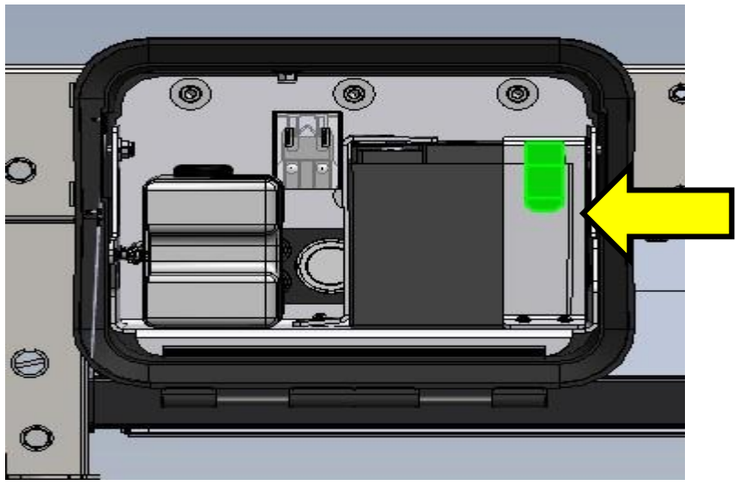
Heater Inspection (Webasto Option)





- Fill the tank with diesel fuel (Page 39)
- Switch on the heating and check that it is working properly
- If it does not work properly check the fuses in the 12v toolbox, perform a reset procedure with taking them out for 1 min and reinstall them.
- 20 A (Heater) and 1A Fuse (Multicontrol)
- If there is air in the system, you can blow carefully with some compressed air in the filler cap. Make sure the tank doesn’t blow up
- The pump is located between the heater and the frame

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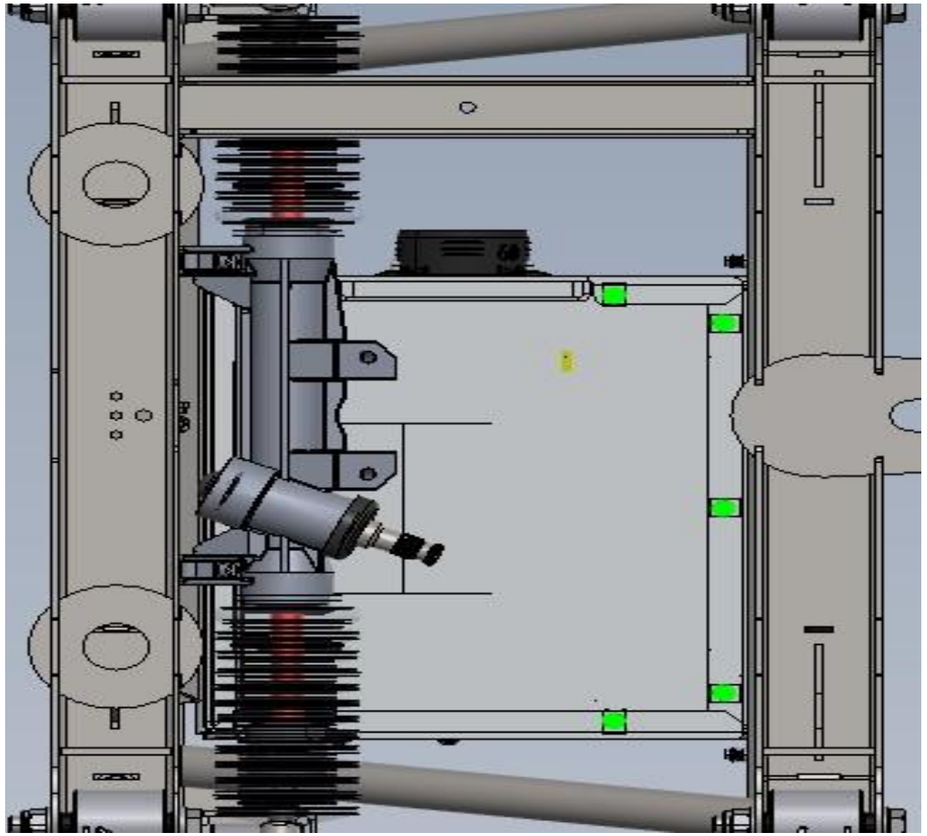
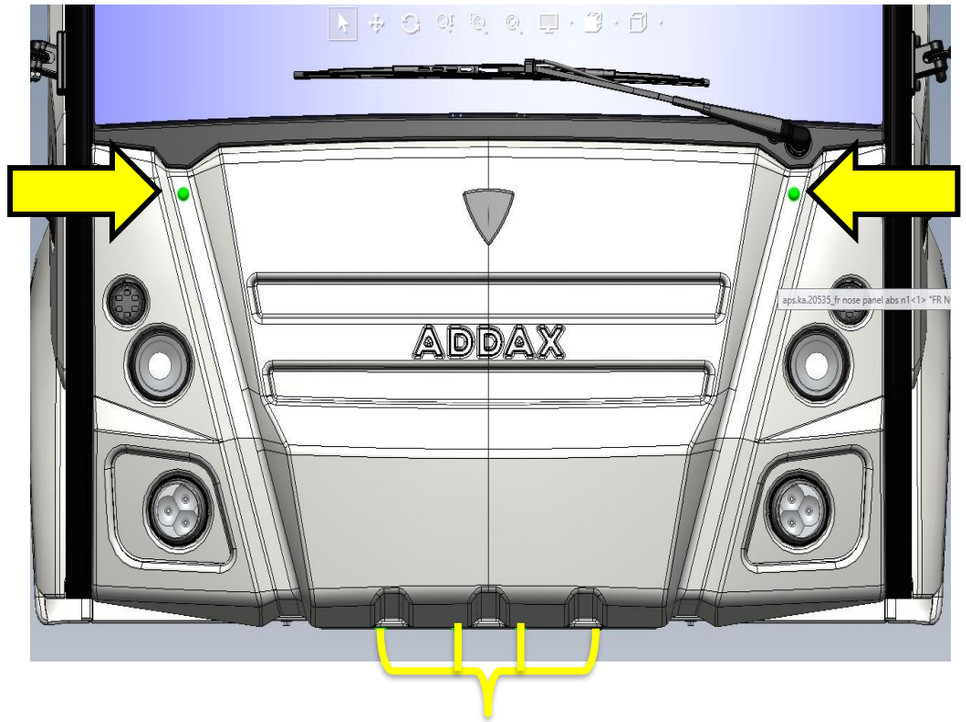
Heater Inspection (Electrical Option)



- Switch on the heating and check that it is working properly
- Locate the aluminium cover at the bottom of the unit (Page 38)
- Remove the five black screws and remove the cover
- Clean the foam intake filter
- Reassemble in reverse order

ADDAX MT SERVICE BOOKLET

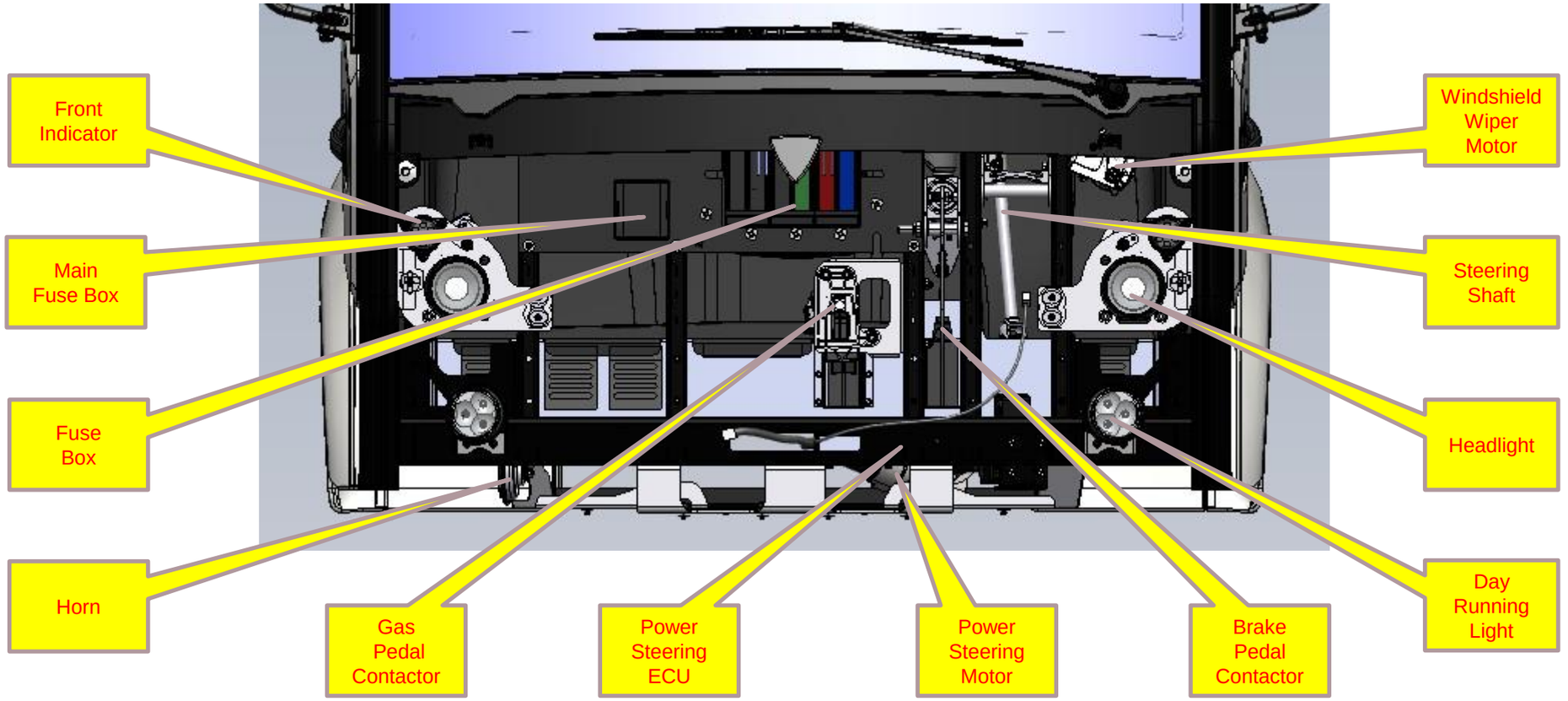
Nose Panel Removal



- Remove the two black rubbers and the allen bolts behind them
- Remove the four allen bolts at the bottom
- Pull the nose panel towards you from below
- You can now put it away safely
- Reassemble in reverse order and pay attention to the placement of both water curtains

ADDAX MT SERVICE BOOKLET

Location of parts - Front view



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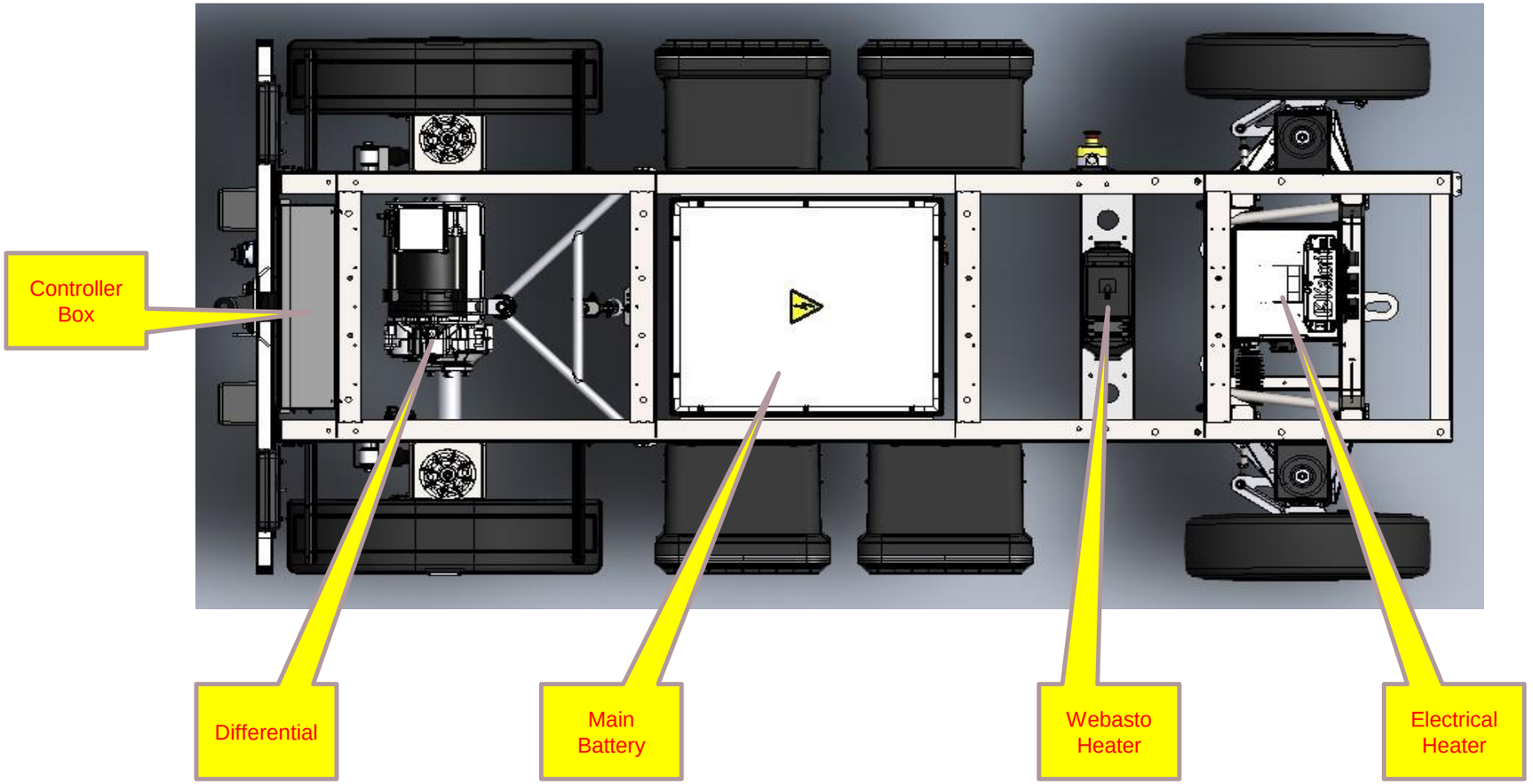
Location of parts - Top view



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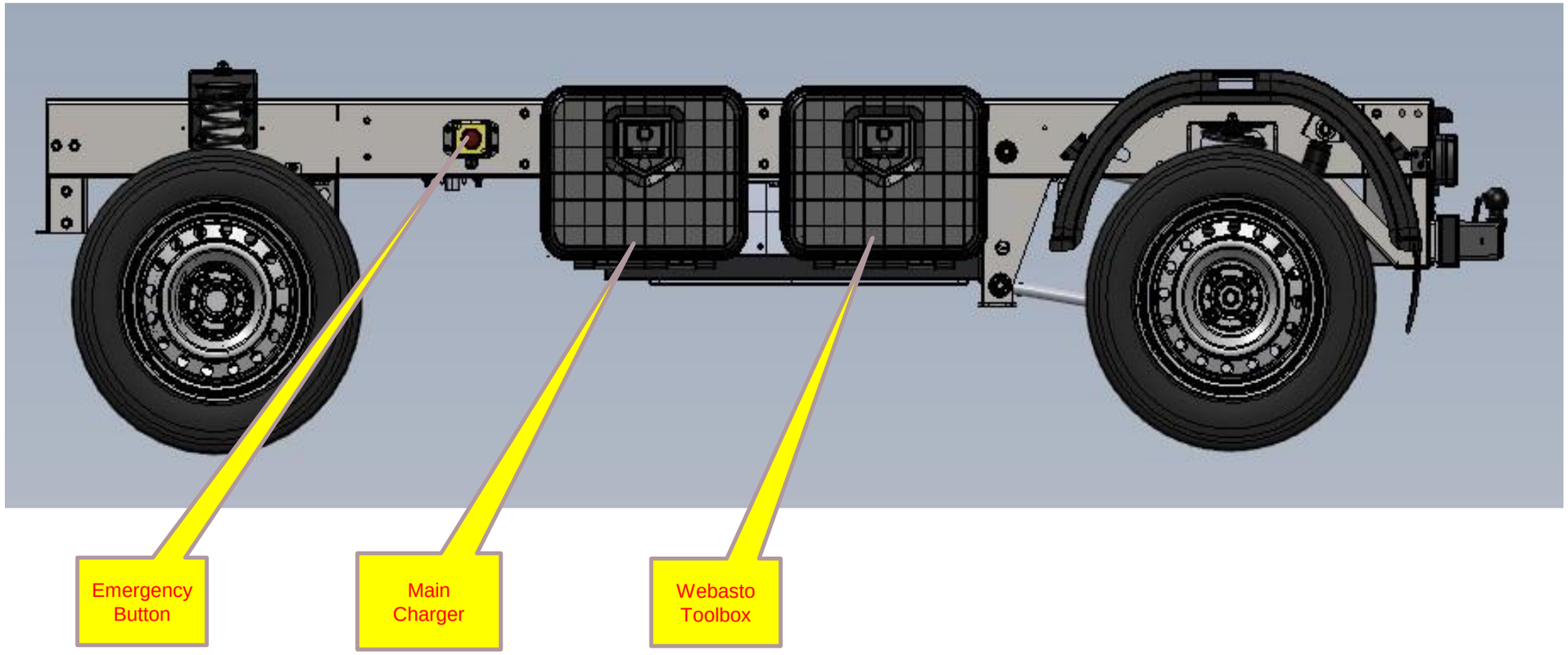
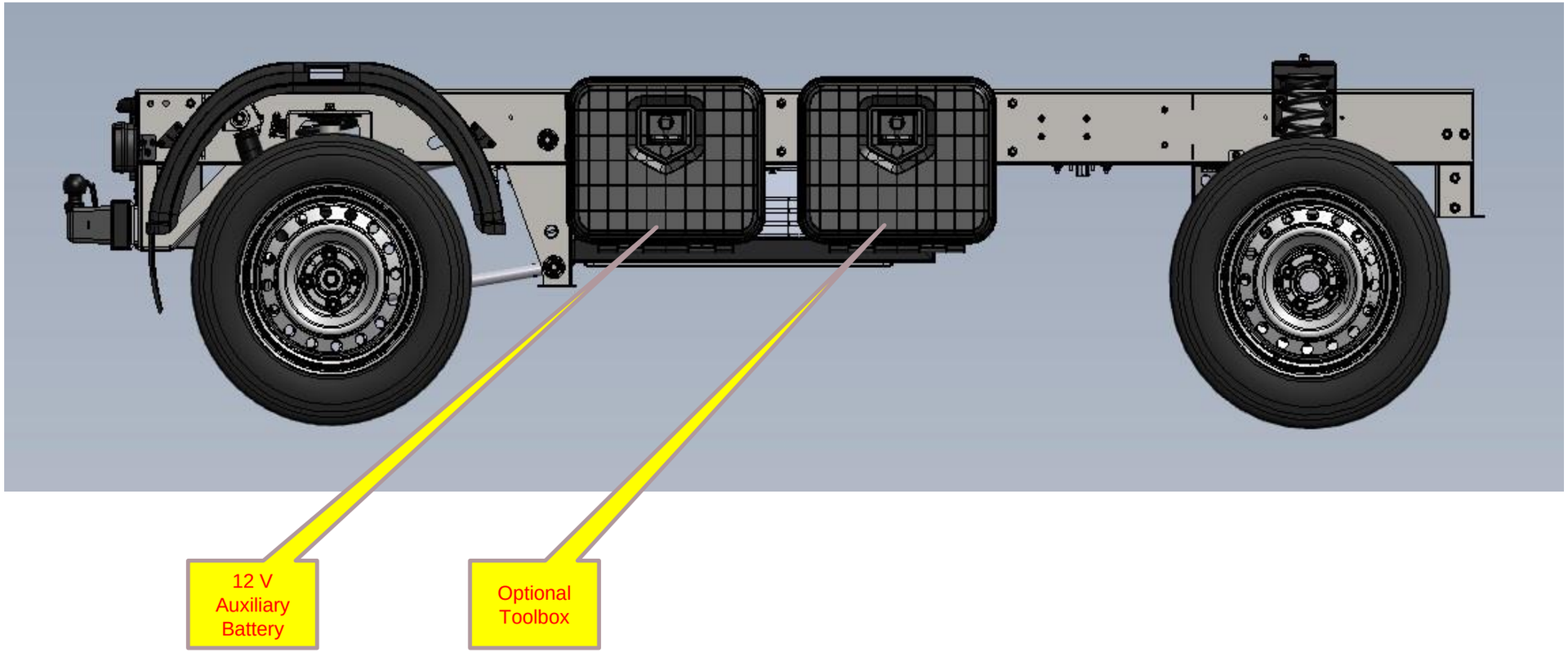
Location of parts - Left view

Front



ADDAX MT SERVICE BOOKLET

Location of parts - Right view