

Carlo Tagliaferri
V.ORLANDI Towing Systems

Technical Manager

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List of contents

- Torque Checks (coupling and DB-eye nut, coupling flange bolts)
- Wear Check (coupling rubbers, bushes and pin; DB-eye bush)
- Closing Check (safety devices)
- Characteristic data (Values, Approvals...)
- General recommendations

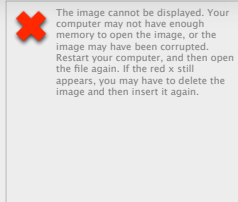
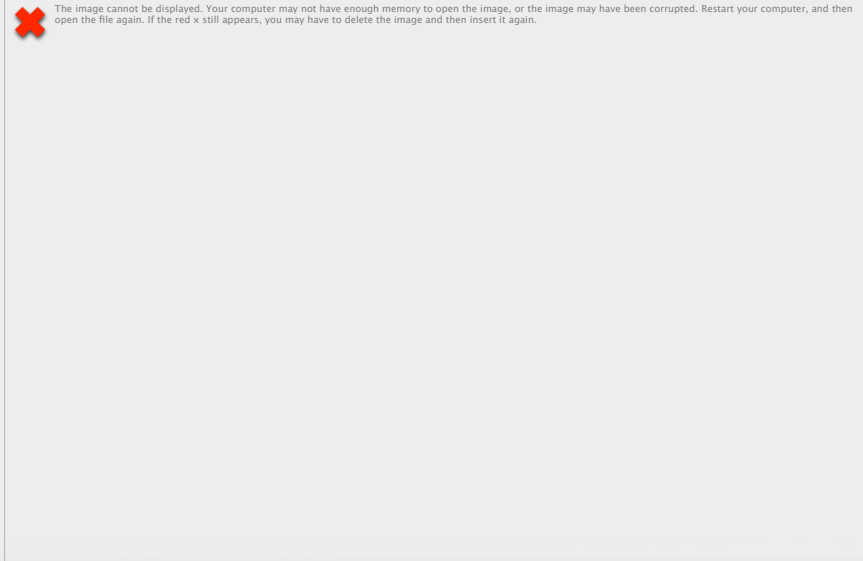
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Torque checks – coupling side



Torque checks – coupling side

Torque of the **coupling tie rod** group:

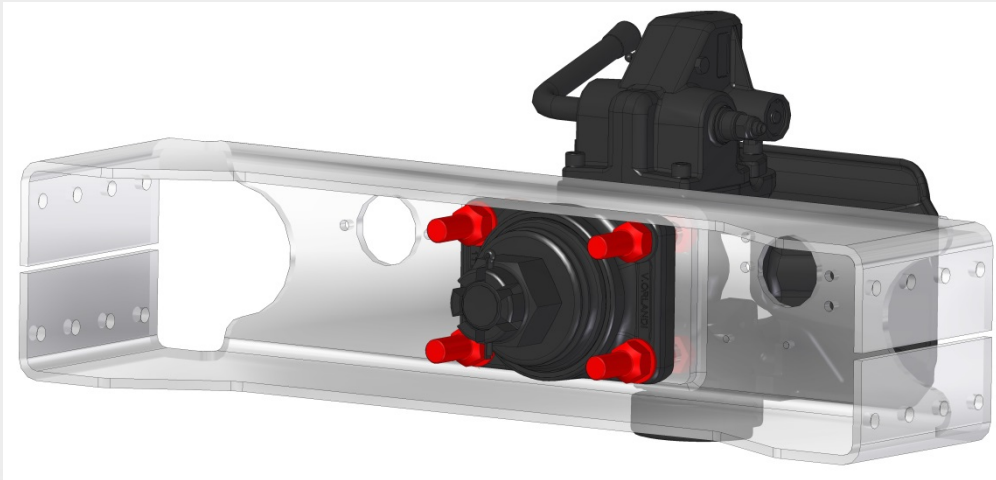
- Check the play of the coupling in its flange, by shaking it along its main axle, or by turning it. If any play is detected, proceed as follows;
- Check the torque of the rear nut using a torque wrench as follows:
 - take the split pin off;
 - Set the torque wrench to the lower limit of the imposed range;
 - Torque the rear nut, and fit a new slit pin;
 - If it is impossible to fit the split pin, set the torque wrench and torque the nut until it will be possible to fit the split pin.


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Torque checks – coupling side

Torque of the **coupling flange bolts**




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Torque checks – DB-eye side




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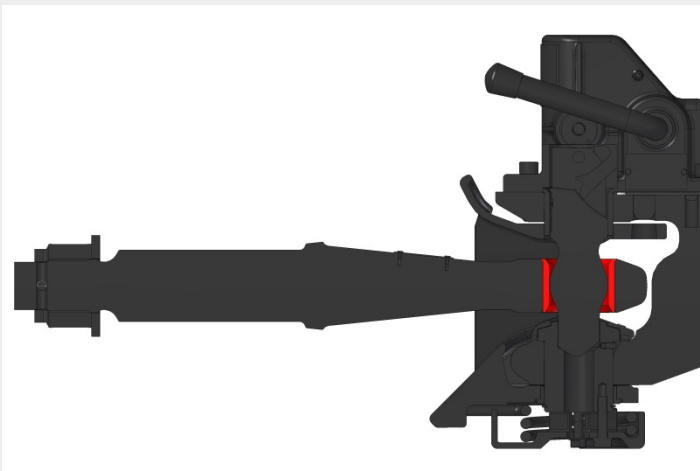
Torque checks – DB-eye side

- Check the movement of the DB-eye inside its socket (removable DB-eye), and the movement of the washer underneath the nut. If any play is detected, proceed as follows ;
- Check the torque of the rear nut using a torque wrench as follows:
 - take the split pin off;
 - Set the torque wrench to the lower limit of the imposed range;
 - Torque the rear nut, and fit a new slit pin;
 - If it is impossible to fit the split pin, set the torque wrench and torque the nut until it will be possible to fit the split pin.

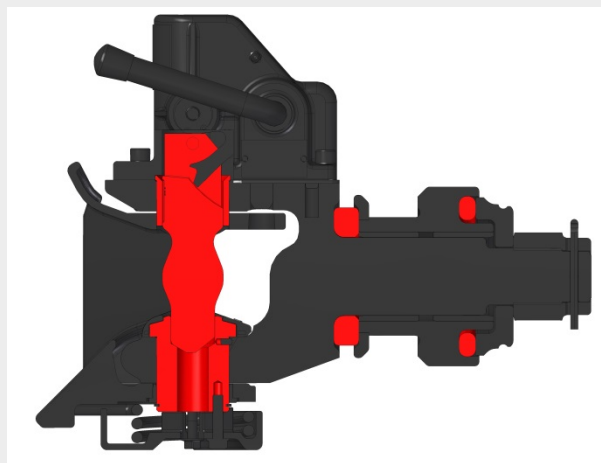
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Wear checks



Towed side




Towing side

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Wear checks


- Wear of the coupling pin;
- Wear of the lower and upper bushes;
- Wear of the rubber buffers;
- Wear of the DB-eye.


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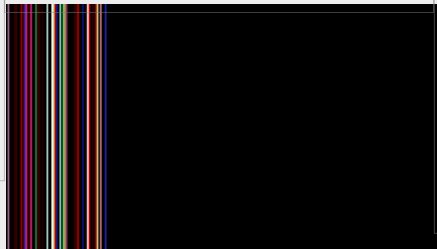



Wear checks – towing side

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Wear checks – towed side

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Closed condition check

- Check of the closed condition before driving
- Check the efficiency of the mechanical safety device



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Closed condition check




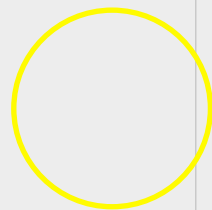
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Closed condition “electronic” check

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→ sensoring




→ In Cab signal



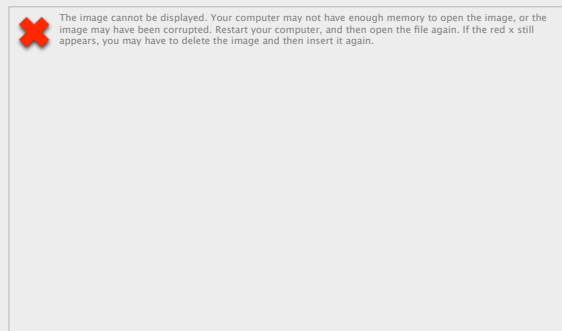
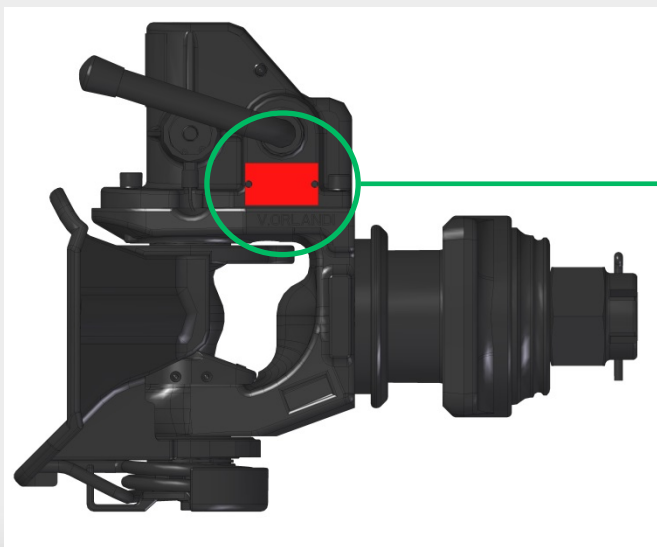
Identification data check

- Check that drawbar coupling and eye are correct for the application;
- Check the presence of the approval number (CRN or R55);
- Check the presence of the serial / identification number;

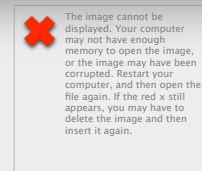
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Identification data check



Approval Plate





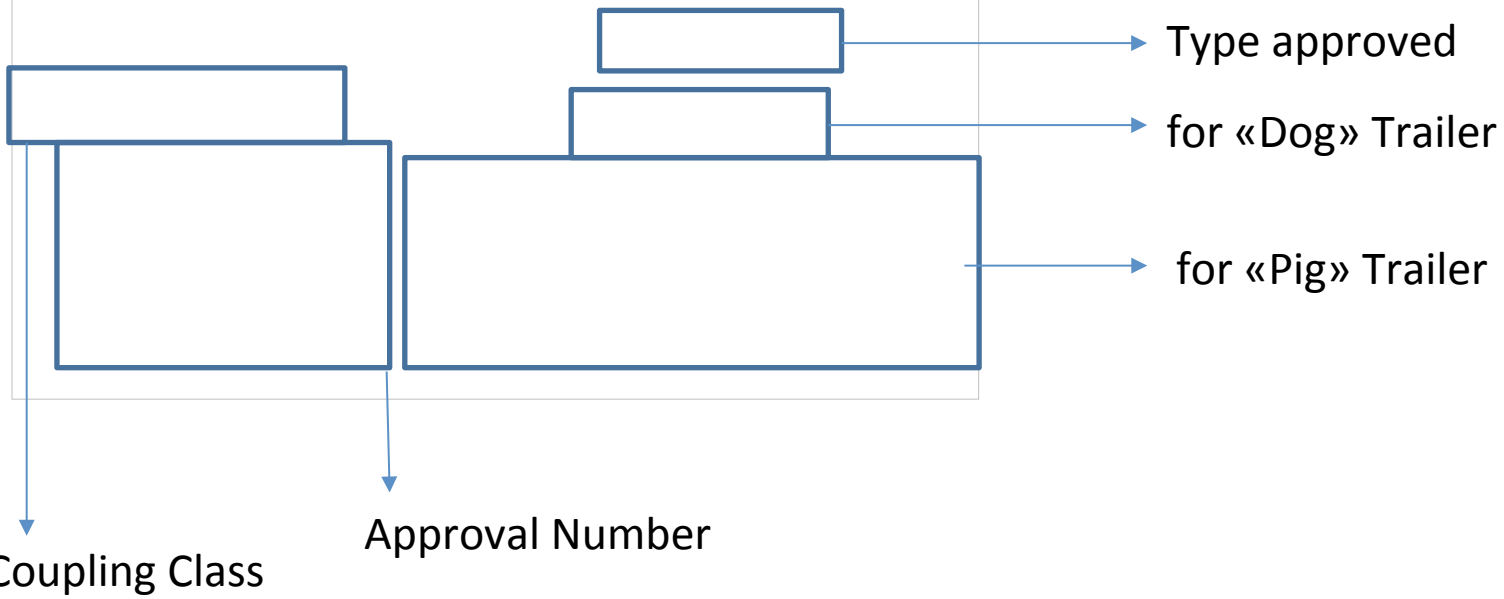
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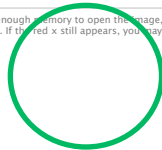


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- *Identification data check*



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Serial Number,
for traceability



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General indication

- Genuine Spare Parts to comply with the type approved . (i.e. use of TCK spares invalidate the homologation and the warranty of V.Orlandi products) ;
- video maintenance on www.orlandi.com.au