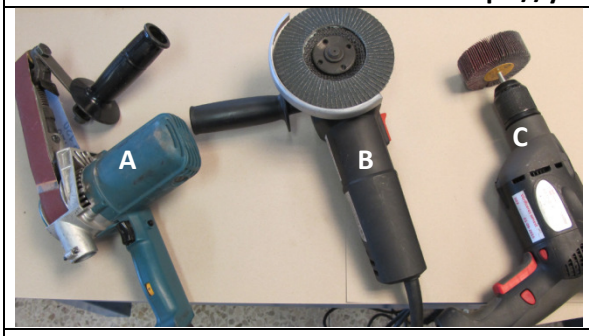
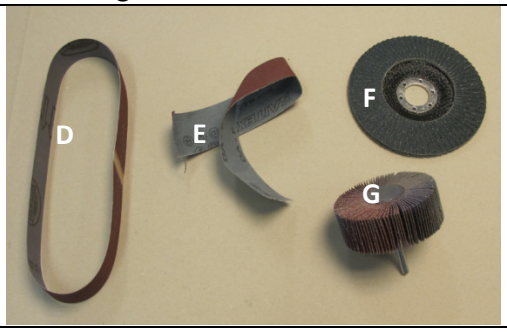
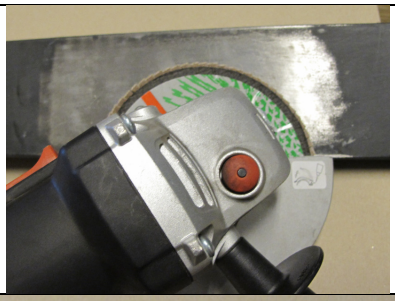
We recommend to view our mounting video:
https://youtu.be/ZeWnWTgD4Cw

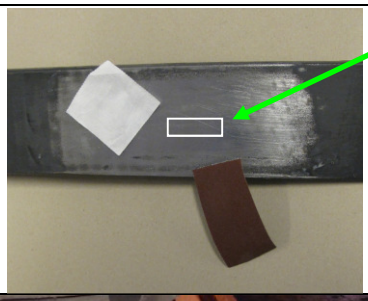


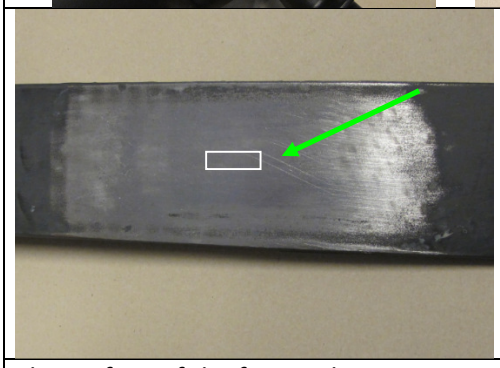


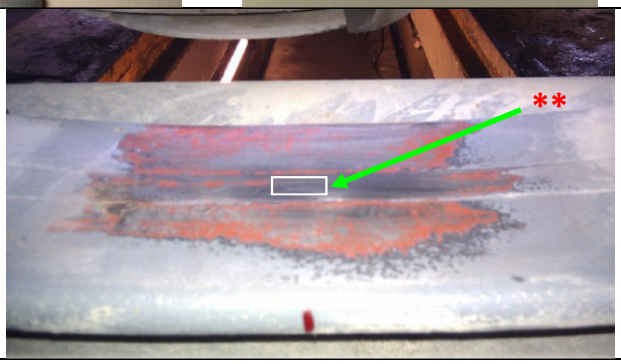
Needed machinery.
A – plane grinder for narrow places
B – angle grinder
C – drilling machine

Needed grinded material.
D – grain 120 and 240
E – grain 120 and 240
F – grain 80
G – grain 60 and 120









The surface of the front axle or spring, where you are going to fit the SG sensor must be extremely clean and without of any paint, dust, oil or grease.

Cleaning:
The very best way to clean the axle from dust and spots of oil, is to wash it with warm water and soap, and afterwards you clean the axle surface with an oil removing chemical.
You have to remove all paint and corrosion protecting materials from the axle in an area at least same size as the metal cover. This area has to be even, dry and clean.
The easiest way to make the surface even is to use a grinding machine with emery paper first grain 60-120 later grain 120—240.

** On some front axles the center of the axle is raised a little. If this is wide enough for the SG sensor it is OK. If not you have to remove some material, or the SG sensor can be placed on the plan area behind or in front of this raised area.

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Created by: Magnus From	Our part number:		Dimension:	
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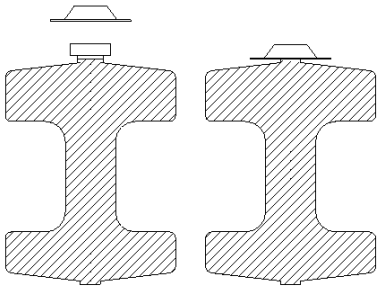
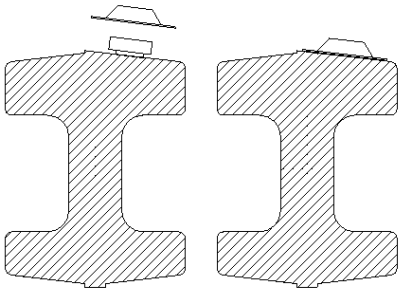
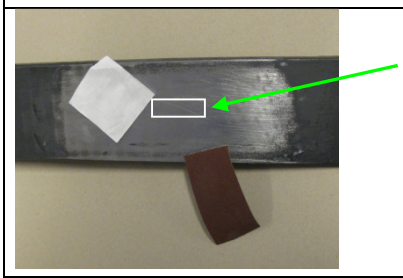


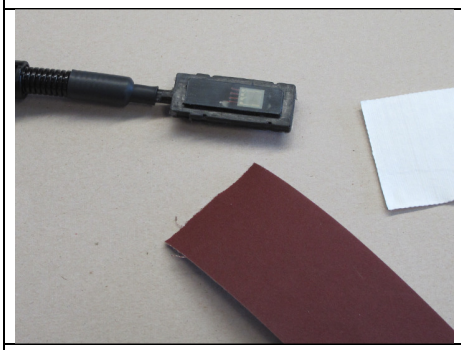


** On some front axles the center of the axle is raised a little. If this is wide enough for 2 cm^2 area for the SG sensor it is OK. If not you have to remove some material, or the SG sensor can be placed on the plan area behind or in front of this raised area.

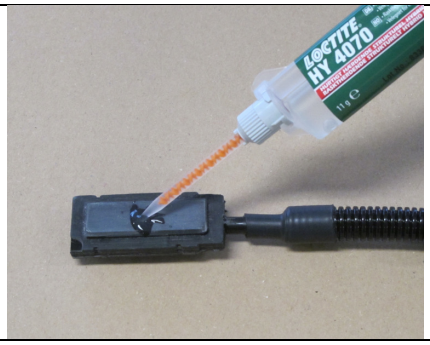


The final finish of the surface has to be done by hand with emery cloth grain 120 and 240. Specially the area for the SG sensor with Loctie 4070 glue has to be very even.
All dust from grinding the front axle, must be removed by washing the grinded area with cleaning solvent and lint-free white cleaning paper. You have to continue the wiping process until you do not pick up any dirt when using lint-free white cleaning paper.

Cleaning solvent (50% Acetone + 50% 2-Propanol) or 100% Acetone and lint-free cleaning paper.



The area of the SG sensor has be touched very carefully with emery cloth grain 240 and washed with cleaning solvent and a lint-free white cleaning paper.



For using the Loctite 4070 gluing:
See MANU_90024

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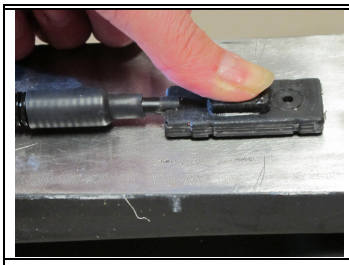
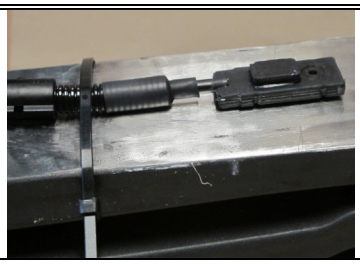


For using the Loctite 4070 gluing:
See MANU_90024



Strap cable for SG sensor with 1 or 2 pcs of cable ties to avoid the sensor being damaged or torn off.

Now we recommend a temporary installation for SG sensor to Kimax radio, to ensure that the SG sensor operates correct.

Simple test: Enter OAA menu in Kimax radio and notice value. Have 1 or 2 person to enter truck above the axle you want to check. OAA value will change a little to higher value. If value change to a little lower value, the polarity for the sensor can be changed by Sensor Control Unit.

Read carefully the next pages before opening the MS9399 tube!!!

OBS – MS9399 must be pressed out slowly from the tube.
(the first 1-2 ml MS9399 from the tip must be discarded)

If the application of adhesive is interrupted for more than 5 – 10 minutes, the mixer tip should be replaced or the MS9399 from the tip must be discarded by pressing it out.

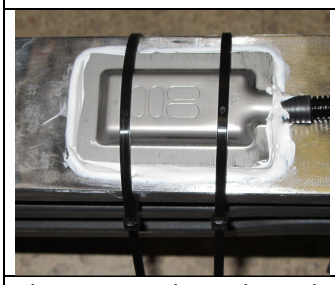
WAIT MINIMUM before using MS9399 – **See MANU_90024.**

WAIT MINIMUM for further handling when the cover is mounted - **See MANU_90024.**

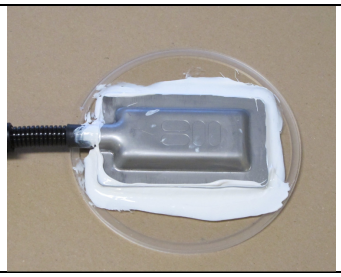
OBS – before further handling metal cover and area covered with MS9399 must be painted or sprayed with corrosion protection!!!!!!!!!!!!

** Illustrating optimal sealing of a SG sensor we have glued the sensor on a transparent glass.

Picture seen through transparent glass.



This picture shows how the SG sensor with a cover looks like when mounted on a steel axle.



**

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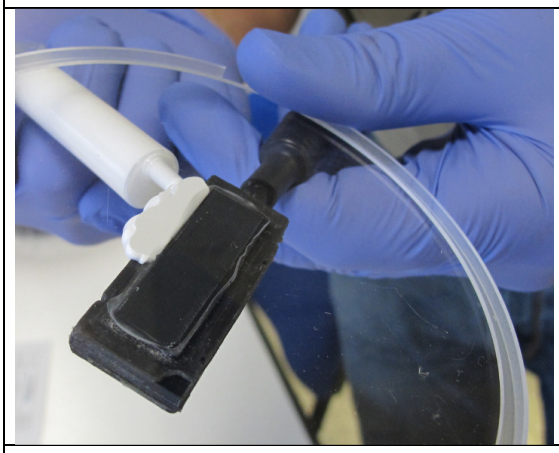
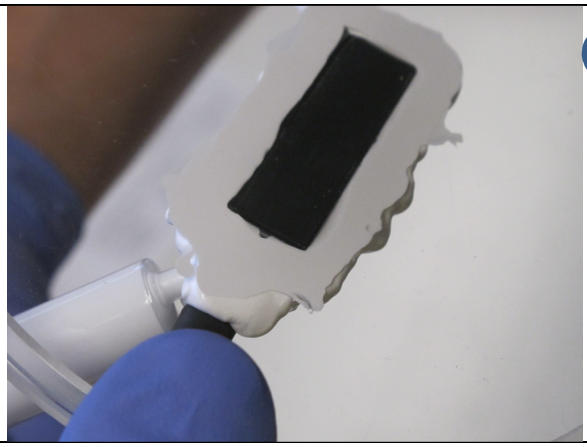
Tools: MAN GUN for 2x50 ml tubes and injection syringe 5 ml. Sense-Tech pn 50623.

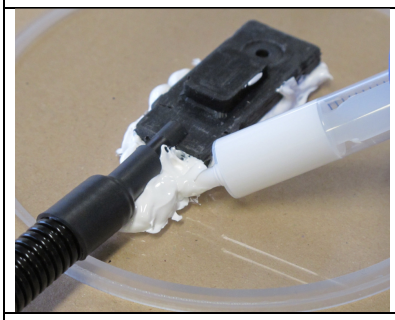
If the 5 ml injection syringe is used it must be completely filled with MS9399 to avoid air bubbles.



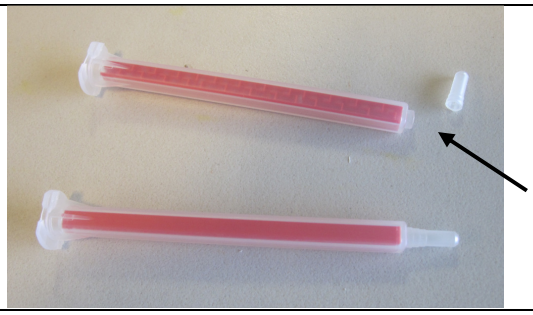
Press in MS9399 slowly, moving the mixer tip slowly around the sensor so it will fill up the space between the sensor and axle.



Fill up the space in the middle of the sensor.



Fill up underneath the end of the sensor. Also press MS9399 underneath the corrugate tube.



Mixertip can be shortened with knife to make it easier and faster to fill up the metal cover with MS9399.
(the 50 ml container can also be heated a little)

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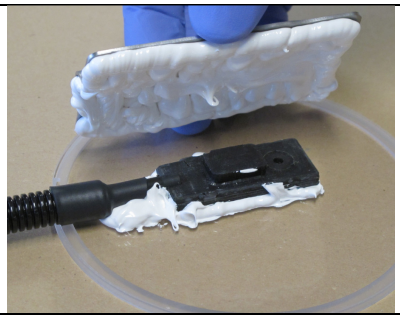
The metal cover has to be grinded with grinding paper korn 240 and to be wiped off with cleaning solvent (50% Acetone + 50% 2-Propanol) and cleaning paper before the cover is almost filled with MS9399.
Also wipe of the axle once again where the cover has to be placed.

Add MS9399 on the shoulders of the cover.

Fill almost up the cavity in the cover.

Avoid air bubbles if possible.

Use the hole 50 ml container for one pcs SG sensor installation.



Use disposable gloves.
Put the cover in position over the sensor.

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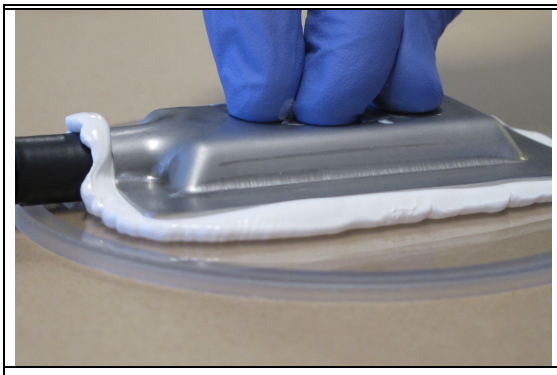
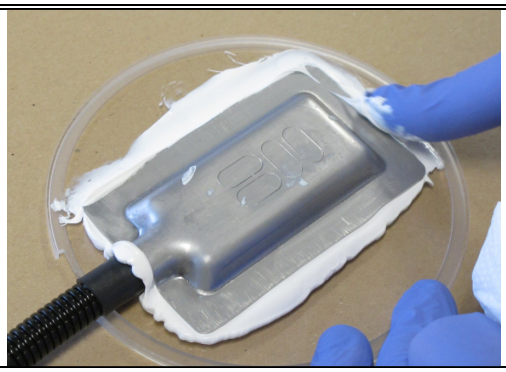
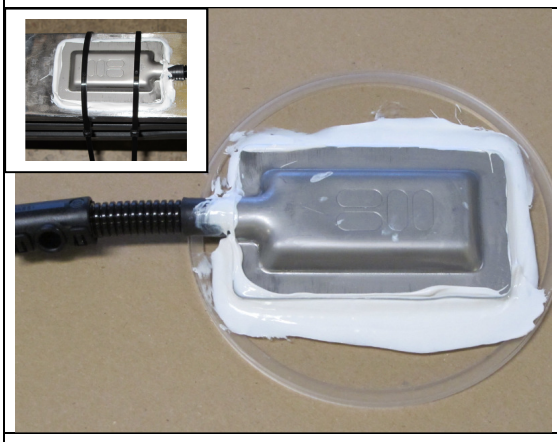
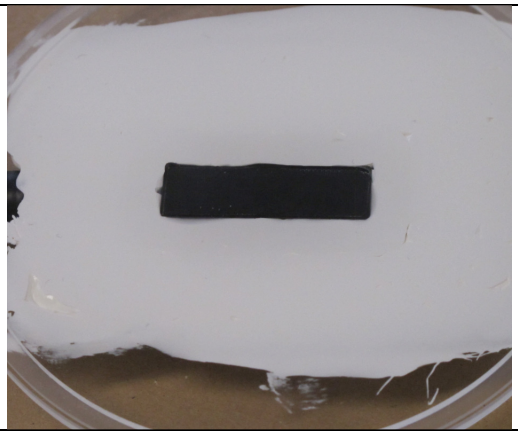




Press the cover towards the axle.

Remove the excess MS9399.





If needed tie the cover to the axle with 2 pcs cable strips.

When the instruction is carefully followed, the space between the sensor + cover and axle is completely filled with MS9399.
There may be small air pockets.

IMPORTANT!

OBS – before further handling metal cover and area covered with MS9399 must be painted or sprayed with corrosion protection!!!!!!!!!!!!

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Examples of cable routing

Examples where NOT to place SG sensor.

Rubber bumper will destroy SG sensor

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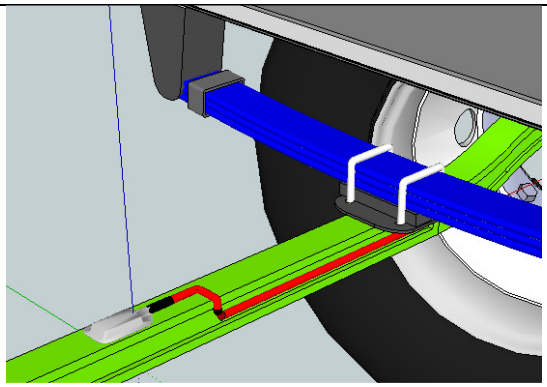
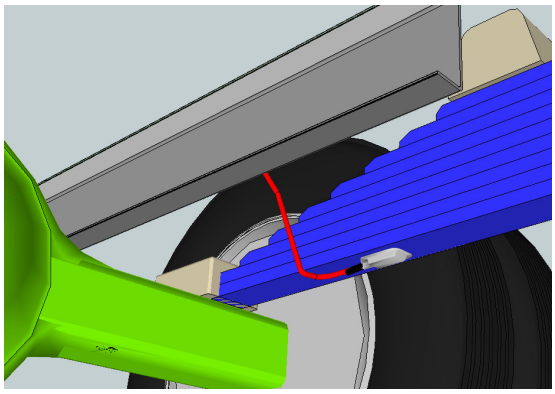
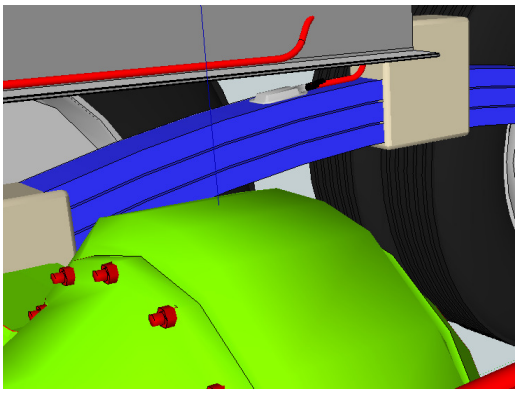
Examples where to place SG sensor.



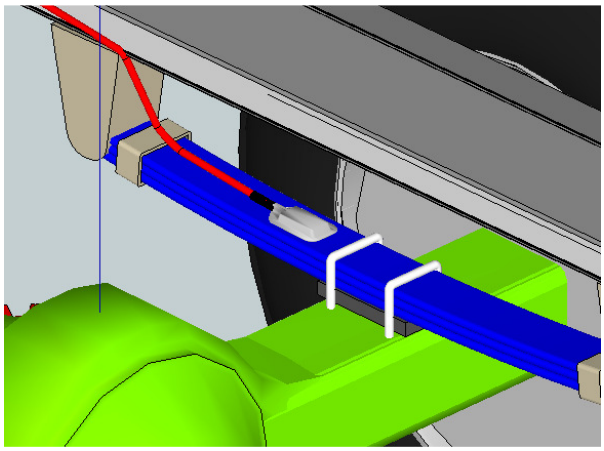
Front axle



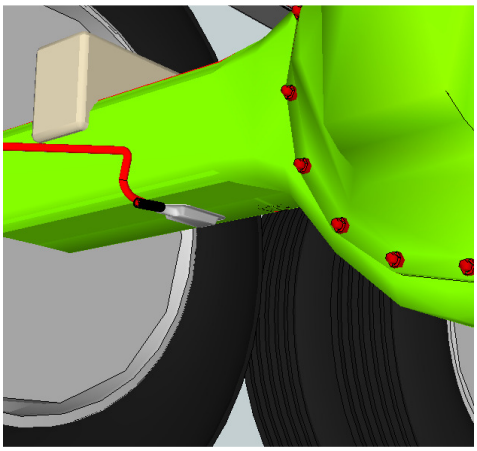
Boogie axle



Boogie axle



Rear axle with seperate springs



Rear axle – placed below or on top, so sensor do not damaged when the axle is moving up and down. Cable from SG sensor can follow air hoses for brakes.

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