

V6200

HD TRUCK WHEEL ALIGNMENT



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AREA SET UP

- Clear alignment area of obstacles
- Ensure sufficient clearance in front and behind the vehicle
- Ensure clear line of site side to side
- Minimum length of alignment area approximately 45 feet
- Minimum width 11 to 16 feet



1.0 EQUIPMENT SET UP USING PORTABLE SCALES

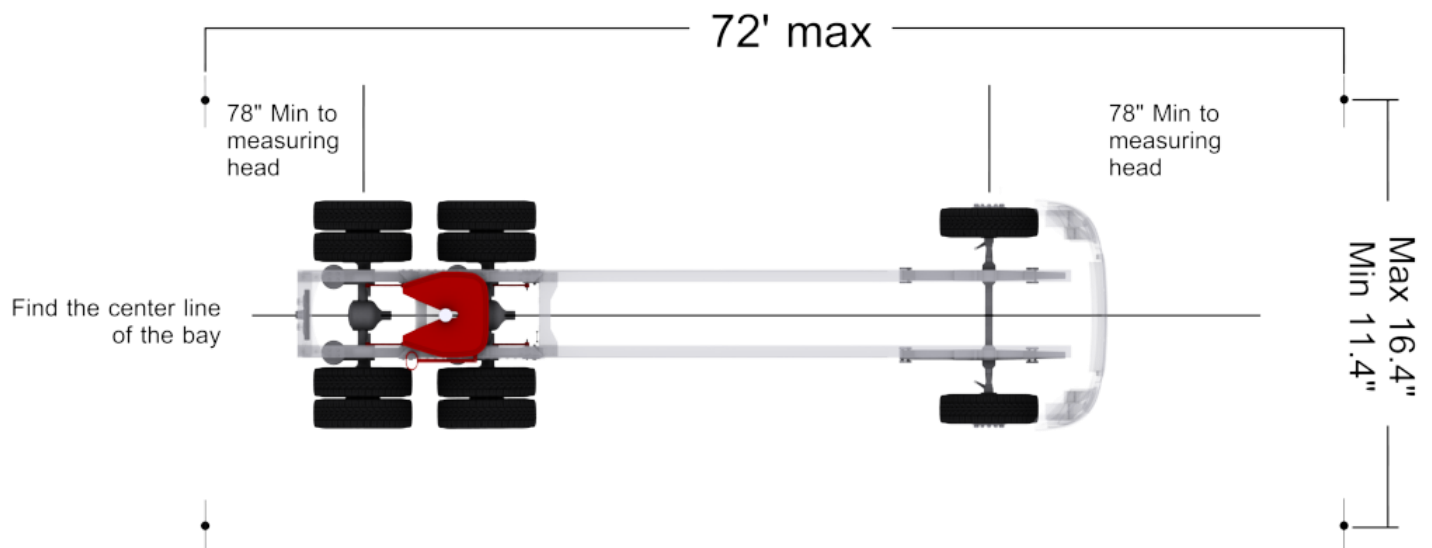
- 1.1 Bring the equipment to the alignment area
- 1.2 Connect the console to a wall outlet (110-1120 volts)
- 1.3 Turn the console "ON"
- 1.4 Start the V6200 Software application
- 1.5 Verify that the measuring heads (PODS) are connected and charging
- 1.6 Roll the wheel clamp carts in the alignment area
- 1.7 Position the turn tables on the wheel clamp stands
- 1.8 Assemble the portable scales if necessary



- Required equipment is a V6200 EEWA620B with portable scales

2.0 VEHICLE SET UP

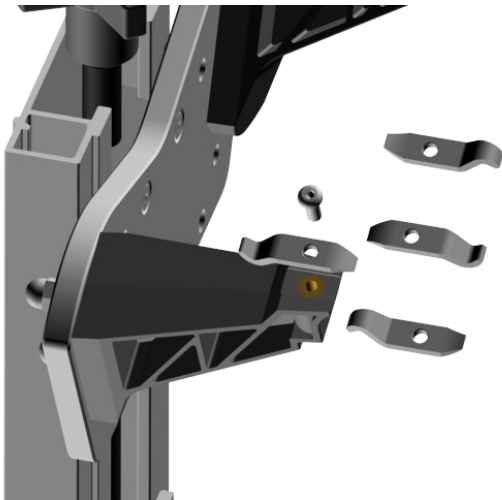
- 2.1 Bring the vehicle to the alignment area
- 2.2 Position the vehicle and allow 6 - 8 feet behind the vehicle
- 2.3 Position the vehicle and allow 6 - 8 feet in front of the vehicle
- 2.4 Proceed with vehicle pre-alignment inspection
- 2.5 Verify, document, and equalize tire pressures
 - 2.5.1 Verify and document tire types and sizes
 - 2.5.2 Observe and record tire wear patterns and tire position
 - 2.5.3 Adjust rear ride height if equipped with air suspension



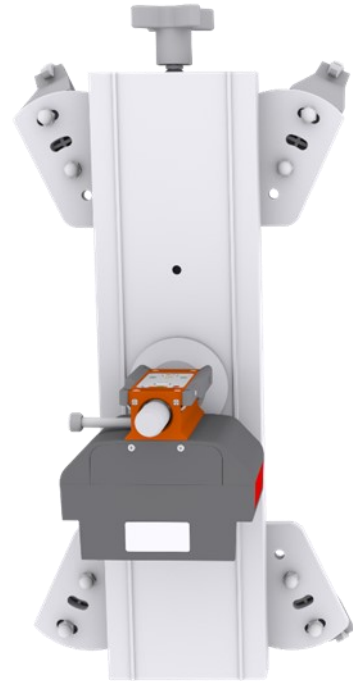
- 2.6 Maximum distance between the front and rear target scales is 72'
- 2.7 When using the portable scales, a minimum of 6—8 feet is required at the back and the front

3.0 WHEEL CLAMPS

- 3.1 Mount all necessary wheel clamps
- 3.2 Secure the clamps snugly onto the wheels
 - 3.2.1 A 2 axle vehicle will require mounting 2 sets of clamps
 - 3.2.2 A 3 axle vehicle will require mounting 3 sets of clamps
 - 3.2.3 A 4 axle vehicle will require mounting 4 sets of clamps



Clamping jaws can be rotated to better fit the wheel type. Verify that they are all the same, on all the clamps



System supports up to 10 sets of clamps

- The EEWA620B comes with 3 sets of clamps
- Additional sets of clamps can be added, up to 10 sets total (Part number EAK0350J47A)
- See the HD truck configuration guide for more details

V6200 CONFIGURATION GUIDE

STANDARD UNIT PLUS A CLAMP SET FOR EACH AXLE OVER THREE

STANDARD UNIT PLUS A TRAILER BAR FOR TRUCK/TRAILER UNIT

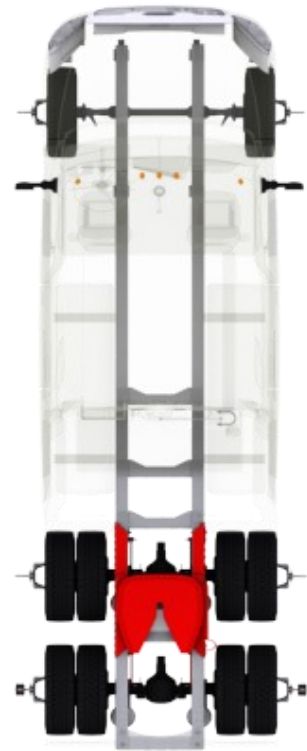
EXTRA SET OF CLAMPS (EAK0350J47A)

JohnBean

4.0 MEASURING HEAD

- 4.1 Mount the measuring heads (PODS) on the rear most axle
- 4.2 Slide the PODS on the clamp shaft until the PODS engages in the shaft groove
- 4.3 PODS can be mounted on either side of the vehicle

Alignment measurement start point



5.0 POSITION REAR PORTABLE SCALES (Manual)

5.1 Position the rear target scale approximately 6 feet behind the vehicle

5.2 Center



Rear target scales approximately 6 feet
behind the vehicle

6'

6.0 POSITION FRONT PORTABLE SCALES (Manual)

Front target scales touching the front bumper
and approximately centered

6.1 Position the FRONT scale up against the front
bumper

6.2 Center

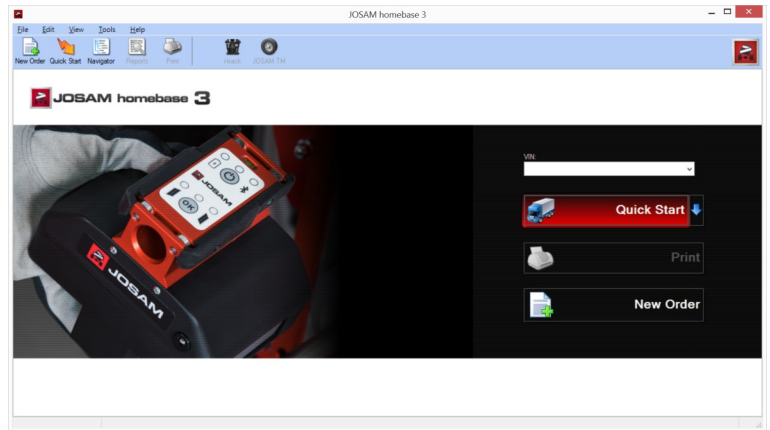
6.2 Center

At this point the alignment box is now created and you are ready to begin the alignment

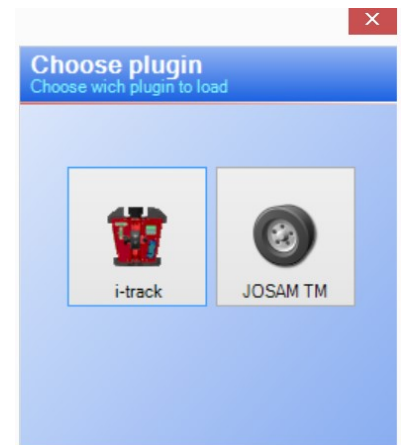


7.0 BEGIN | SELECTING THE VEHICLE

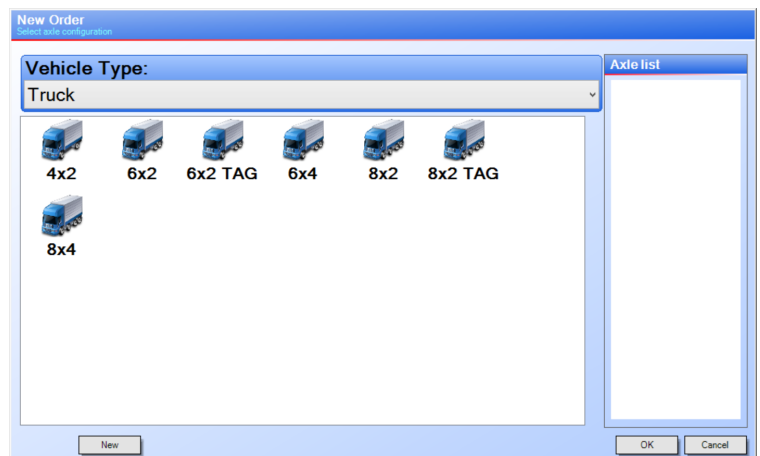
7.1 Click on QUICK START



7.2 Click on ITrack



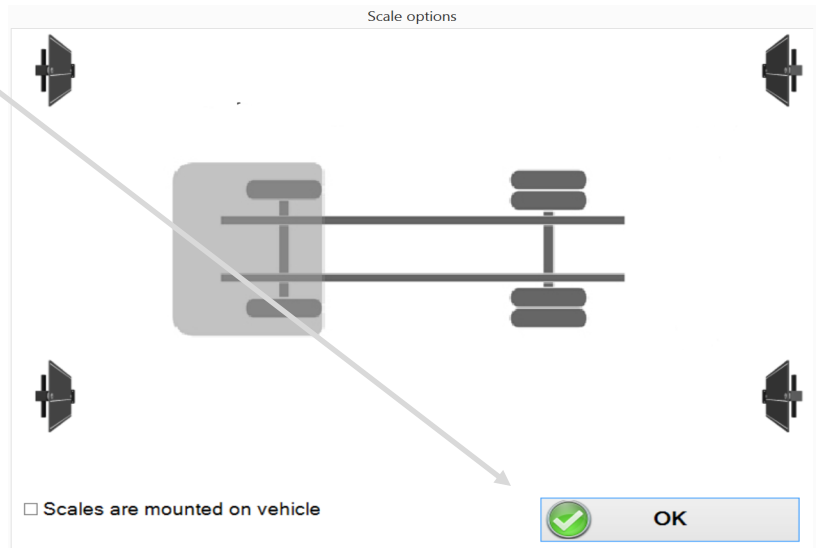
7.3 Select the vehicle type



7.0 BEGIN | SELECTING THE VEHICLE

7.4 Click OK on the SCALES OPTION

DO NOT CHECK THIS BOX

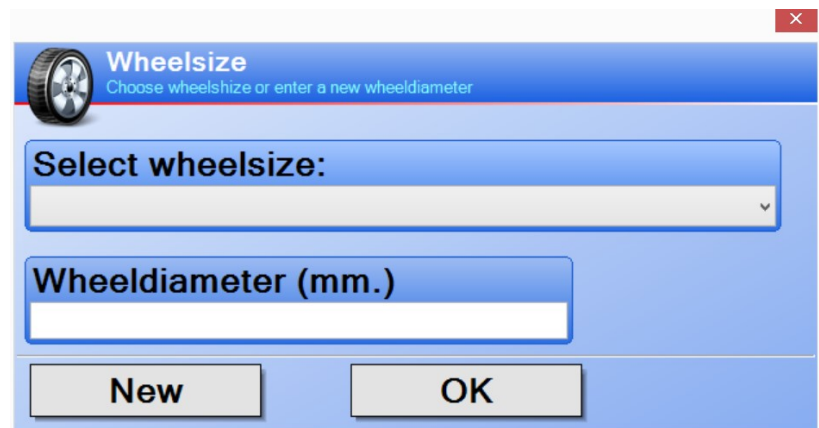


7.5 Select the WHEEL Size

Use the ARROW to open the drop down menu and expose the available wheel sizes

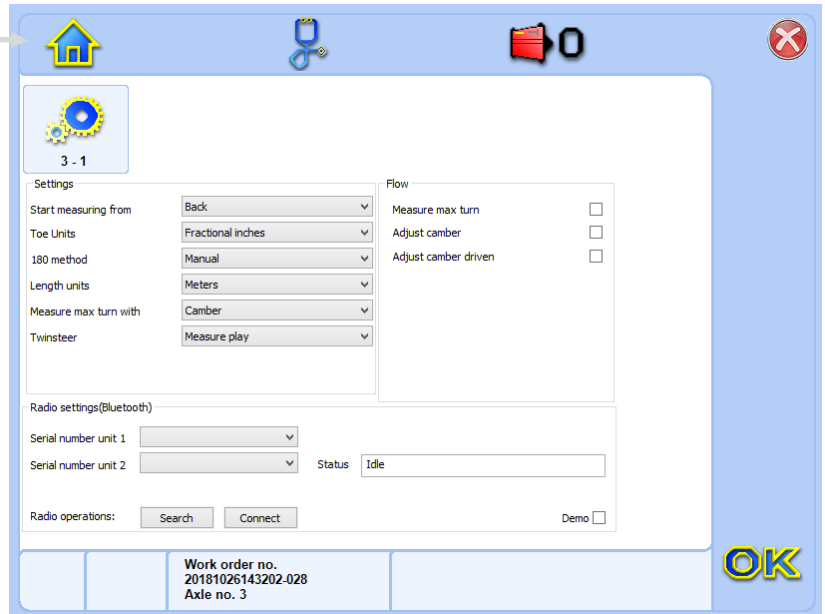
Click on NEW to enter and save a new WHEEL SIZE

7.6 Click OK



8.0 POSITION THE SCALES (WITH ELECTRONIC GUIDANCE)

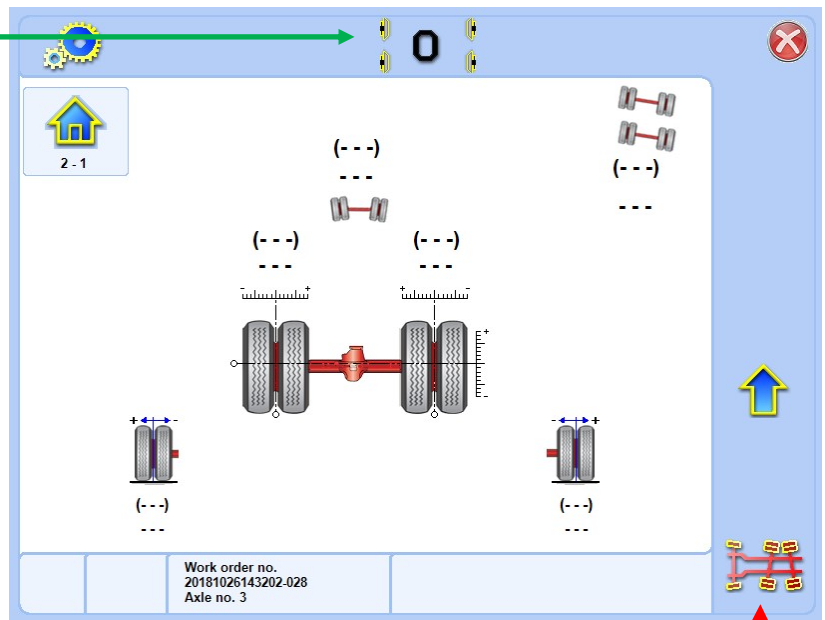
If this screen is visible, click on the HOUSE to change to the target scale set up screen



8.1 Click on the PORTABLE SCALES ICON

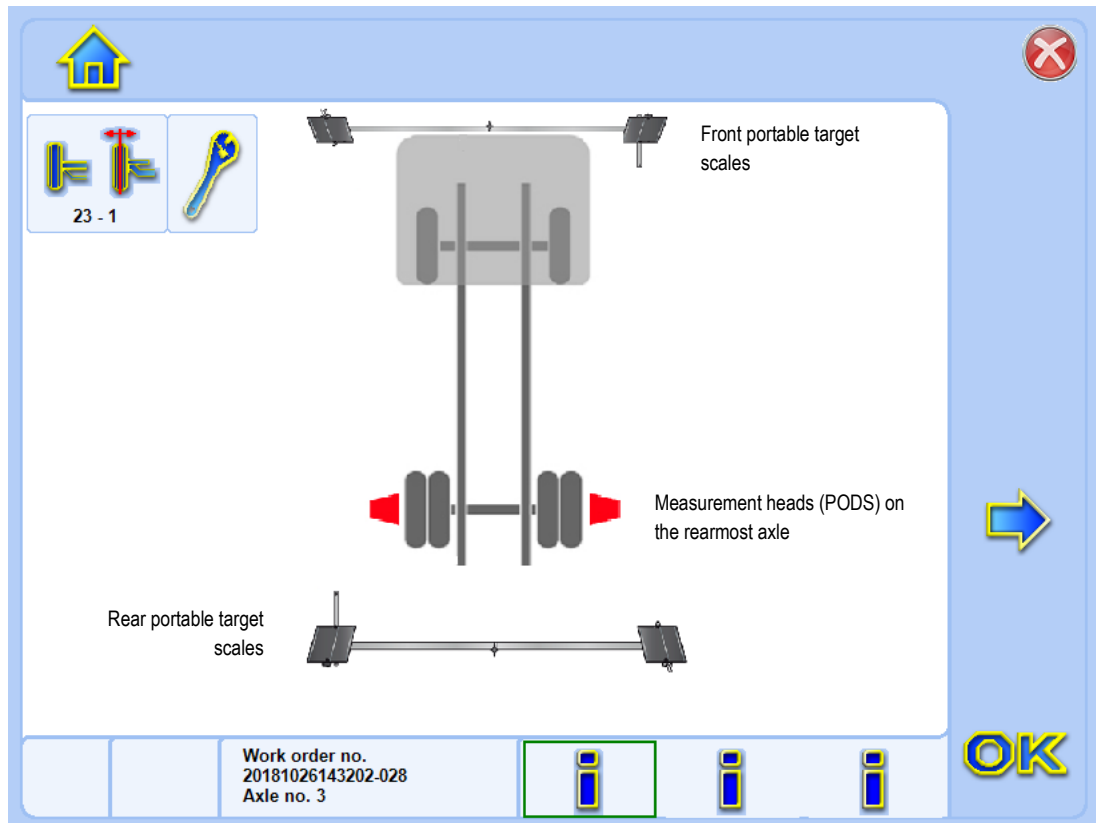
This selection will guide you the correct placement of the target scales

- Do not click on the RED X unless you are ready to RE-START from the beginning
- Do not click on the BLUE arrow at this time
- Do not click on the RED FRAME button at this time



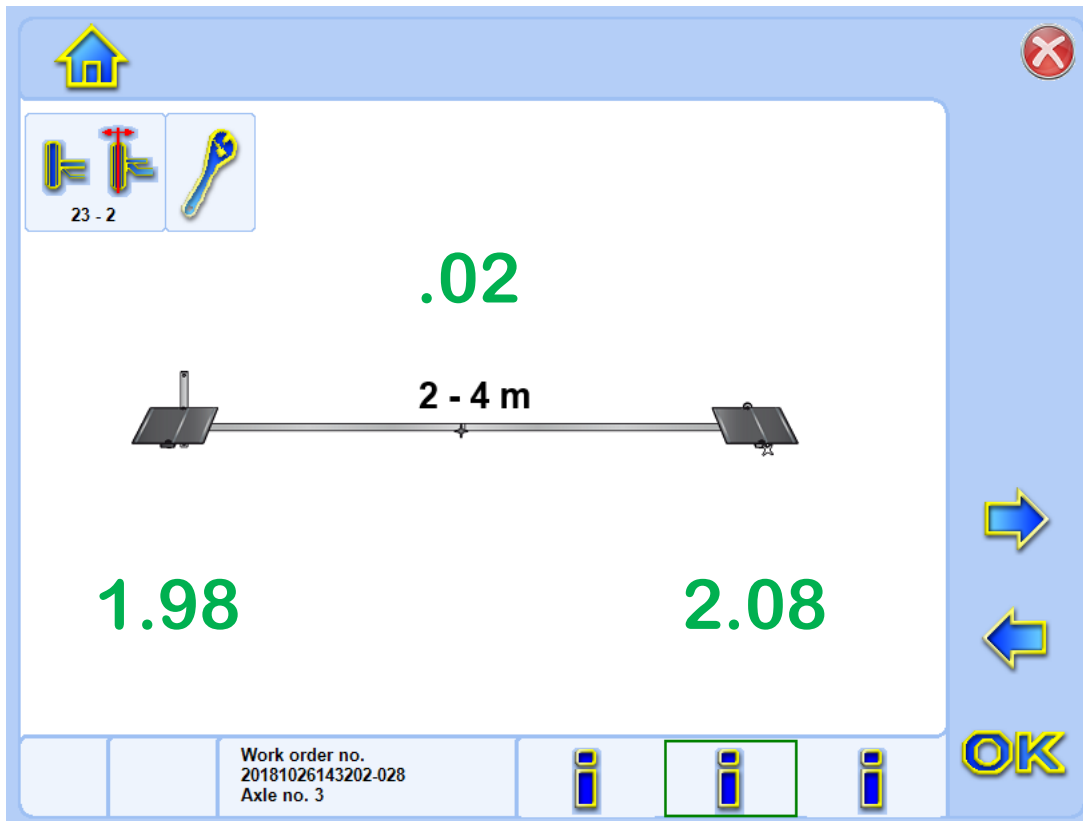
Do not click on the compensation button yet

9.0 POSITION THE SCALES (WITH ELECTRONIC GUIDANCE)



- 9.1 Verify that your set up looks like the picture above
 - 9.1.2 PODS on rearmost axle
 - 9.1.3 Rear target scales at approximately 6 feet from the vehicle and approximately centered
 - 9.1.4 Front target scales close to the front bumper and approximately centered
 - 9.1.5 Click OK to start the positioning

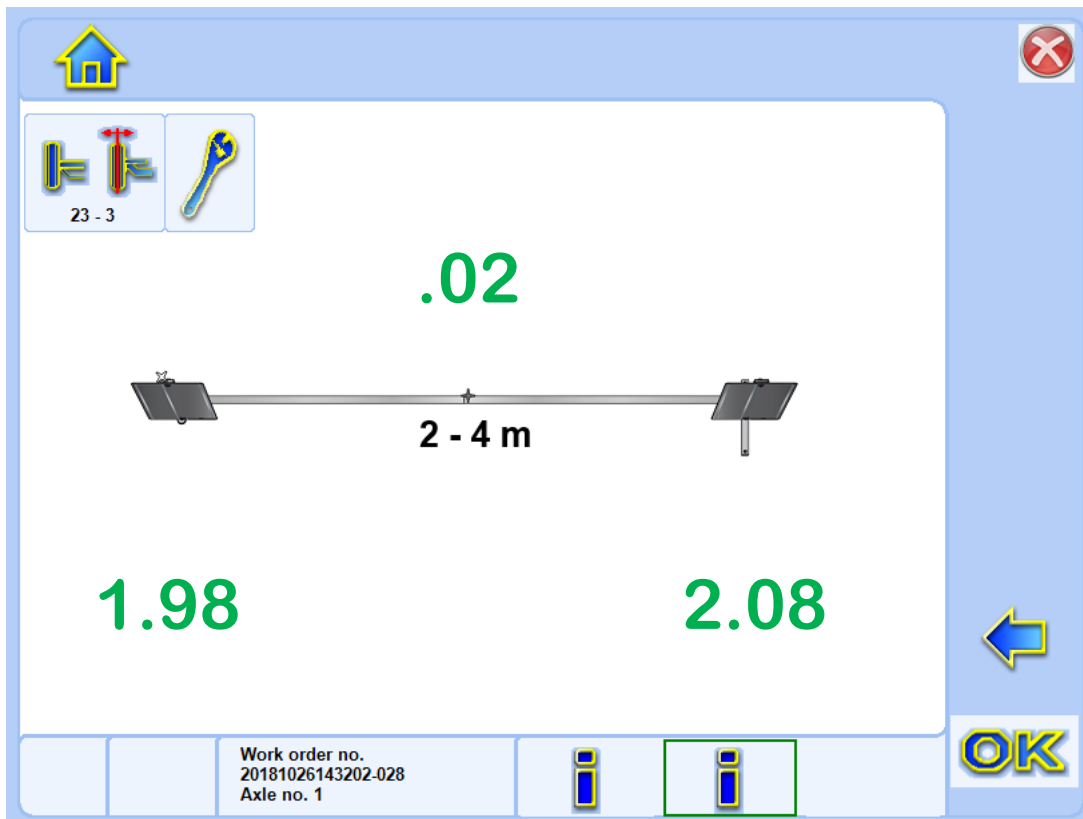
10.0 POSITION THE REAR SCALES (WITH ELECTRONIC GUIDANCE)



10.1 Move the rear target scales back until the numbers on the screen are GREEN

10.2 Slide the bar side-to-side until the centering number is GREEN

11.0 POSITION THE FRONT SCALES (WITH ELECTRONIC GUIDANCE)

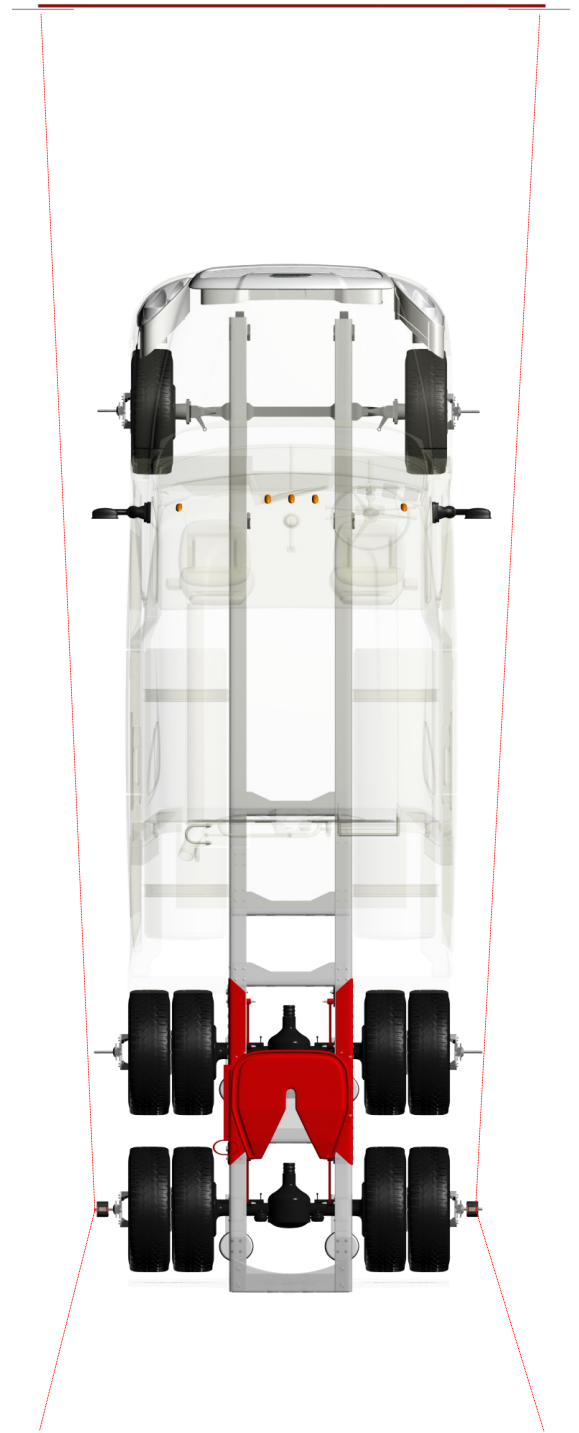


11.1 Move the front target scales back until the numbers on the screen are GREEN

11.2 Slide the bar side-to-side until the centering number is GREEN

12.0 TARGET SCALES POSITIONING COMPLETE

- 12.1 The vehicle coordinate box is now complete.
- 12.2 Proceed with compensation
- 12.3 The portable target scale perimeter box set up will have to be done for every alignment



13.0 COMPENSATION

STARTING AT THE LEFT REAR | FIRST POINT COMPENSATION

13.1 With the POD mounted on the LEFT REAR axle wheel clamps, start with LEFT REAR POD and PRESS OK

13.1.1 The GREEN lights will illuminate and flash then turn off, the measurement is done



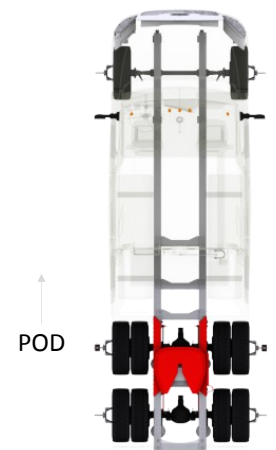
13.2 Shuttle the POD to the second LEFT REAR drive axle

13.2.1 Slide the POD on the shaft

13.2.2 Engage the POD in the groove on the shaft

13.2.3 PRESS OK

13.2.4 The GREEN lights will illuminate, flash then turn off, the measurement is done



13.3 Shuttle the POD to the LEFT FRONT axle

13.3.1 Slide the POD on the shaft

13.3.2 Engage the POD in the groove on the shaft

13.3.3 PRESS OK

13.2.4 The GREEN lights will illuminate, flash then turn off, the measurement is done



13.0 COMPENSATION

CONTINUE WITH RIGHT REAR | FIRST POINT COMPENSATION

13.4 With the POD mounted on the RIGHT REAR axle wheel clamps, CONTINUE with RIGHT REAR POD and PRESS OK

13.4.1 The GREEN lights will illuminate and flash then turn off, the measurement is done



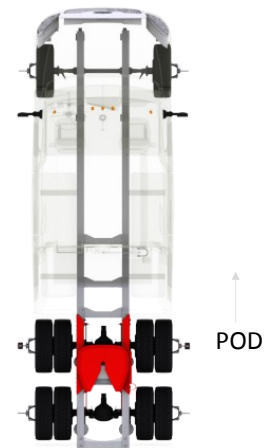
13.5 Shuttle the POD to the second RIGHT REAR drive axle

13.5.1 Slide the POD on the shaft

13.5.2 Engage the POD in the groove on the shaft

13.5.3 PRESS OK

13.5.4 The GREEN lights will illuminate, flash then turn off, the measurement is done



13.6 Shuttle the POD to the RIGHT FRONT axle

13.6.1 Slide the POD on the shaft

13.6.2 Engage the POD in the groove on the shaft

13.6.3 PRESS OK

13.6.4 The GREEN lights will illuminate, flash then turn off, the measurement is done

13.6.5 First point compensation completed



14.0 COMPENSATION | ROLL FORWARD

FOLLOW THE INSTRUCTIONS ON THE SCREEN

- 14.1 Start the vehicle
- 14.2 Air up the air brake system
- 14.3 Release the brakes

- 14.4 This icon means DRIVE FORWARD until the clamp has rotated 180degrees

 **Rotate the wheels 180°**



- 14.5 Drive forward in the direction indicted by the large GREEN arrow

10.5.1 The numbers on the left indicate the distance left roll forward



- 14.6 Stop when the STOP sign appears
- 14.7 Turn the vehicle OFF
- 14.8 Engage parking brake
- 14.9 Exit the vehicle
- 14.10 Click on OK on screen not the PODS



15.0 COMPENSATION | SECOND POINT

STARTING FROM THE RIGHT FRONT

15.1 With the PODS mounted on the FRONT axle wheel clamps, start with RIGH FRONT POD and PRESS OK

15.1.1 The GREEN lights will illuminate and flash then turn off, the measurement is done



15.2 Shuttle the POD to the second (INBOARD) RIGHT REAR drive axle

15.2.1 Slide the POD on the shaft

15.2.2 Engage the POD in the groove on the shaft

15.2.3 PRESS OK

15.2.4 The GREEN lights will illuminate, flash then turn off, the measurement is done

15.2.5. PRESS OK

15.2.6 The GREEN lights will illuminate, flash then turn off, the measurement is



15.3 Shuttle the POD to the REARMOST DRIVE axle

15.3.1 Slide the POD on the shaft

15.3.2 Engage the POD in the groove on the shaft

15.3.3 Second point compensation completed



15.0 COMPENSATION | SECOND POINT

STARTING FROM THE LEFT FRONT

15.4 With the LEFT POD mounted on the LEFT FRONT axle wheel clamps, CONTINUE with LEFT FRONT POD and PRESS OK

15.4.1 The GREEN lights will illuminate and flash then turn off, the measurement is done

15.5 Shuttle the POD to the second (INBOARD) LEFT REAR drive axle

15.5.1 Slide the POD on the shaft

15.5.2 Engage the POD in the groove on the shaft

15.5.3 PRESS OK

15.5.4 The GREEN lights will illuminate, flash then turn off, the measurement is done

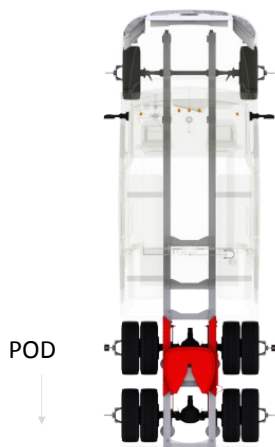
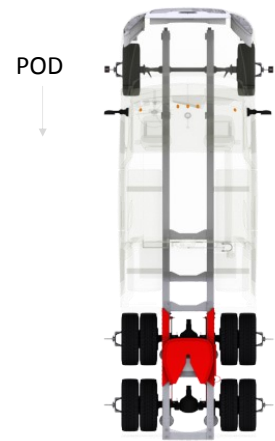
15.5.5 The GREEN lights will illuminate, flash then turn off, the measurement is

15.6 Shuttle the POD to the REARMOST LEFT REAR drive axle

15.6.1 Slide the POD on the shaft

15.6.2 Engage the POD in the groove on the shaft

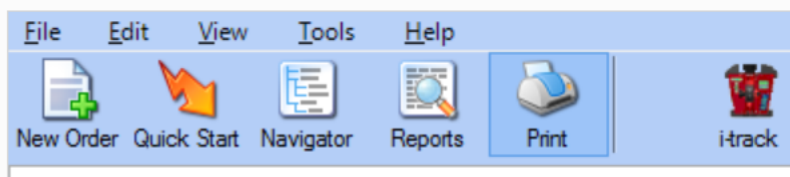
15.6.3 PRESS OK



16.0 VIEW MEASUREMENTS

ACCESS REPORTS

16.1 On the upper tool bar, click on REPORTS



Alignment Report			Date	10/2/2012
			Work order no.	20121002153027-022
				1(1)

Registration no.	TRUCK308	Manufacturer	
Milage	0	Model	
Owner		Model Year	
Performed by		Used specification	LTruck8x2
All values are in mm/m if not differently stated. Values in parenthesis are before measurements			

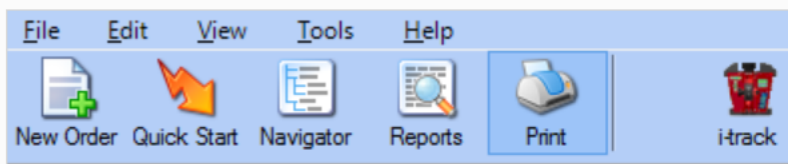
Axle no. 1	Min	Left side	Max	Min	CenterPoint	Max	Min	Right side	Max
Toe	--	(-1.1) +0.0	--	+3.0	(-1.1) -1.1	+4.0	--	(+1.0) +1.2	--
Camber	+0°20'	(+0°23') +0°12'	+0°30'	Total toe			+4°0'	(+0°12') +0°23'	+6°0'
Caster	+0°12'	(+0°23') +0°23'	+0°23'	+1.0	(-0.1) +1.2	+3.0	+1°2'	(+0°45') +0°12'	+1°4'
KPI	+0°12'	(+0°12') +0°12'	+0°23'				+10°0'	(+0°23') +0°32'	+20°0'
Max turn	1°	(2°) 1°	3°				2°	(2°) 3°	5°
Toe out on turn	1°	(2°) 1°	3°				1°	(1°) 2°	3°

Axle no. 2	Min	Left side	Max	Min	Max	Min	Right side	Max
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17.0 VIEW MEASUREMENTS

ACCESS REPORTS

17.1 On the upper tool bar, click on REPORTS



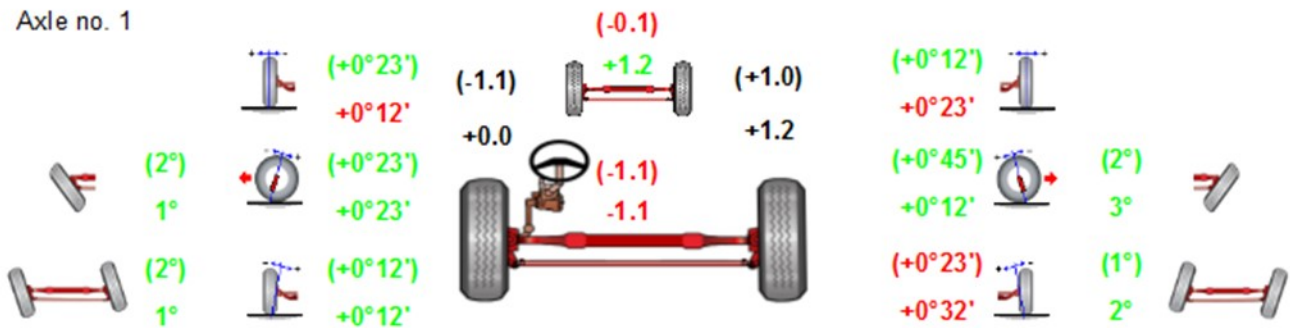
Alignment Report

Date: 10/2/2012
 Work order no.: 20121002153027-022
 1(1)

Registration no.	TRUCK308	Manufacturer	
Milage	0	Model	
Owner		Model Year	
Performed by		Used specification	LTruck&2

All values are in mm/m if not differently stated

Axle no. 1



Axle no. 2

