RAV

HD Truck Aligners
New Generation Machines

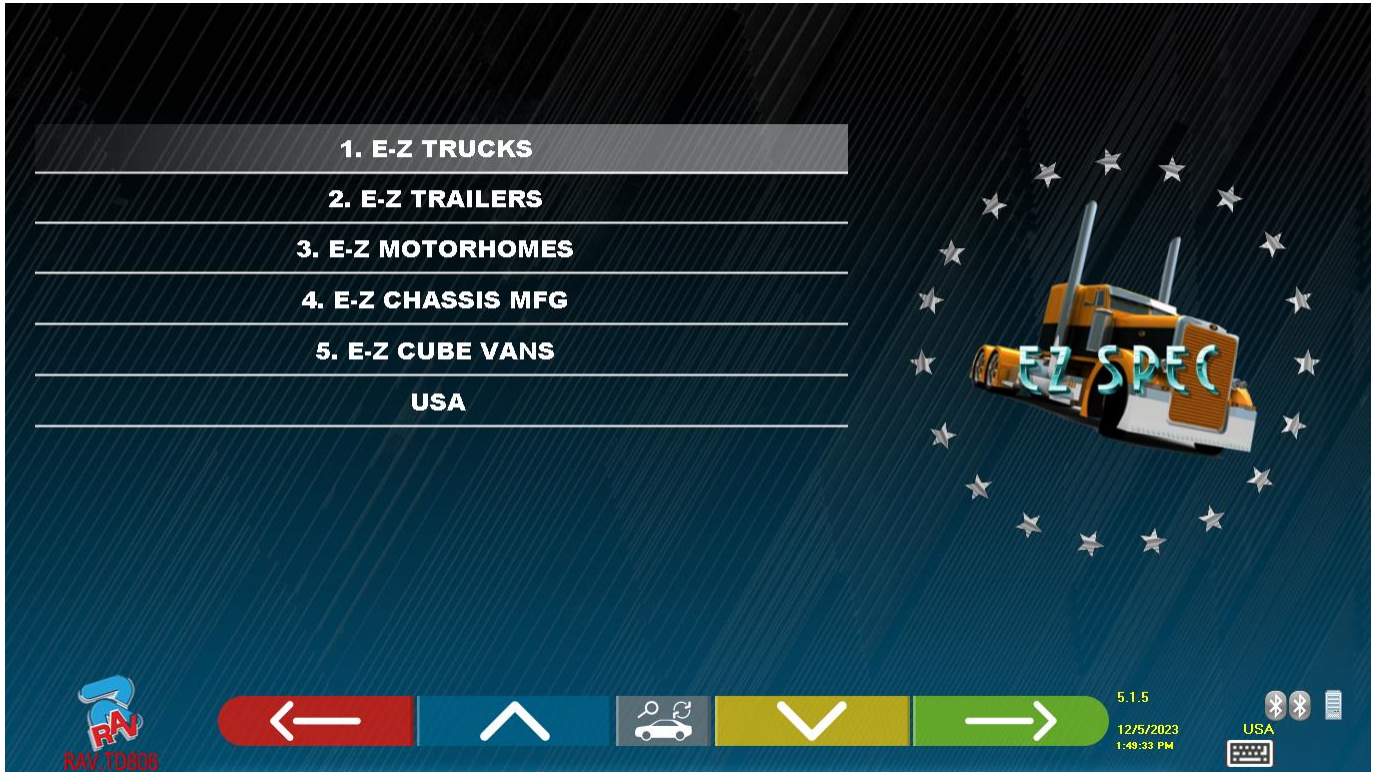
Step by Step Alignment

STEP BY STEP

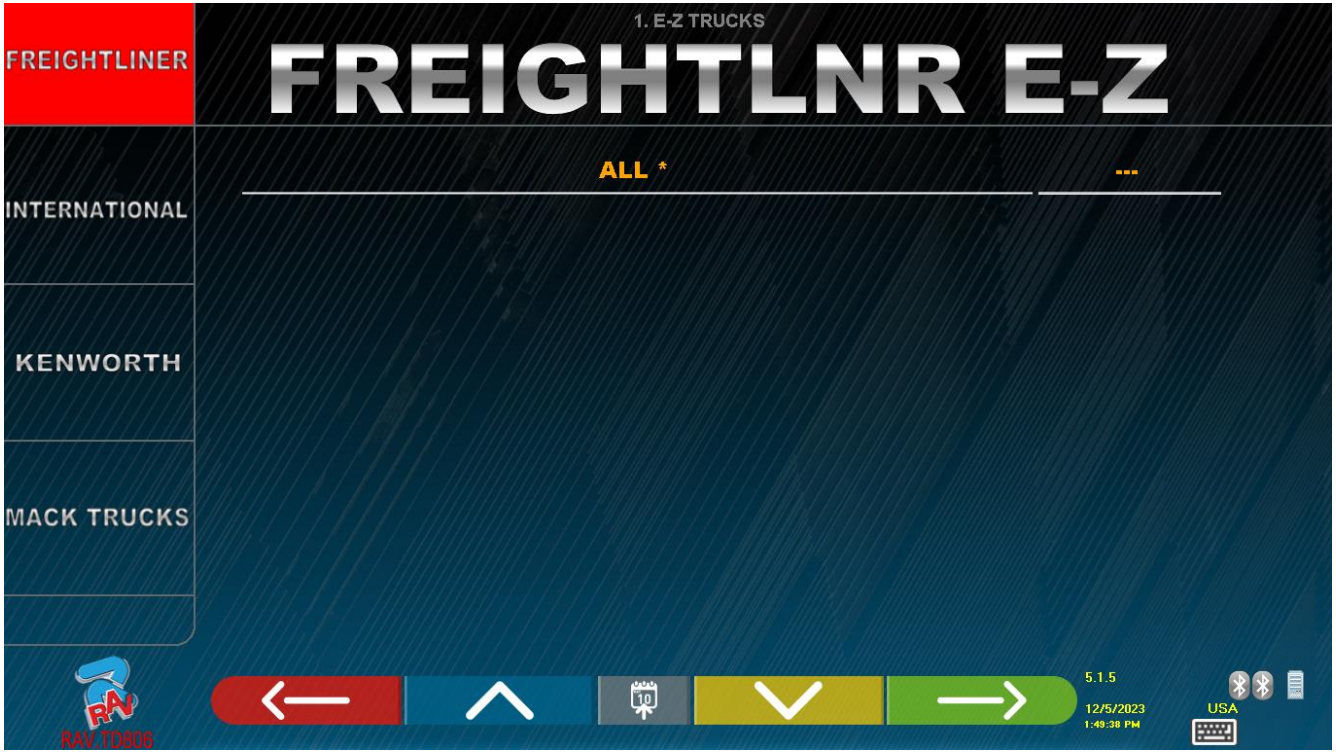
TYPICAL 3 AXLE CONFIGURATION

Main Screen

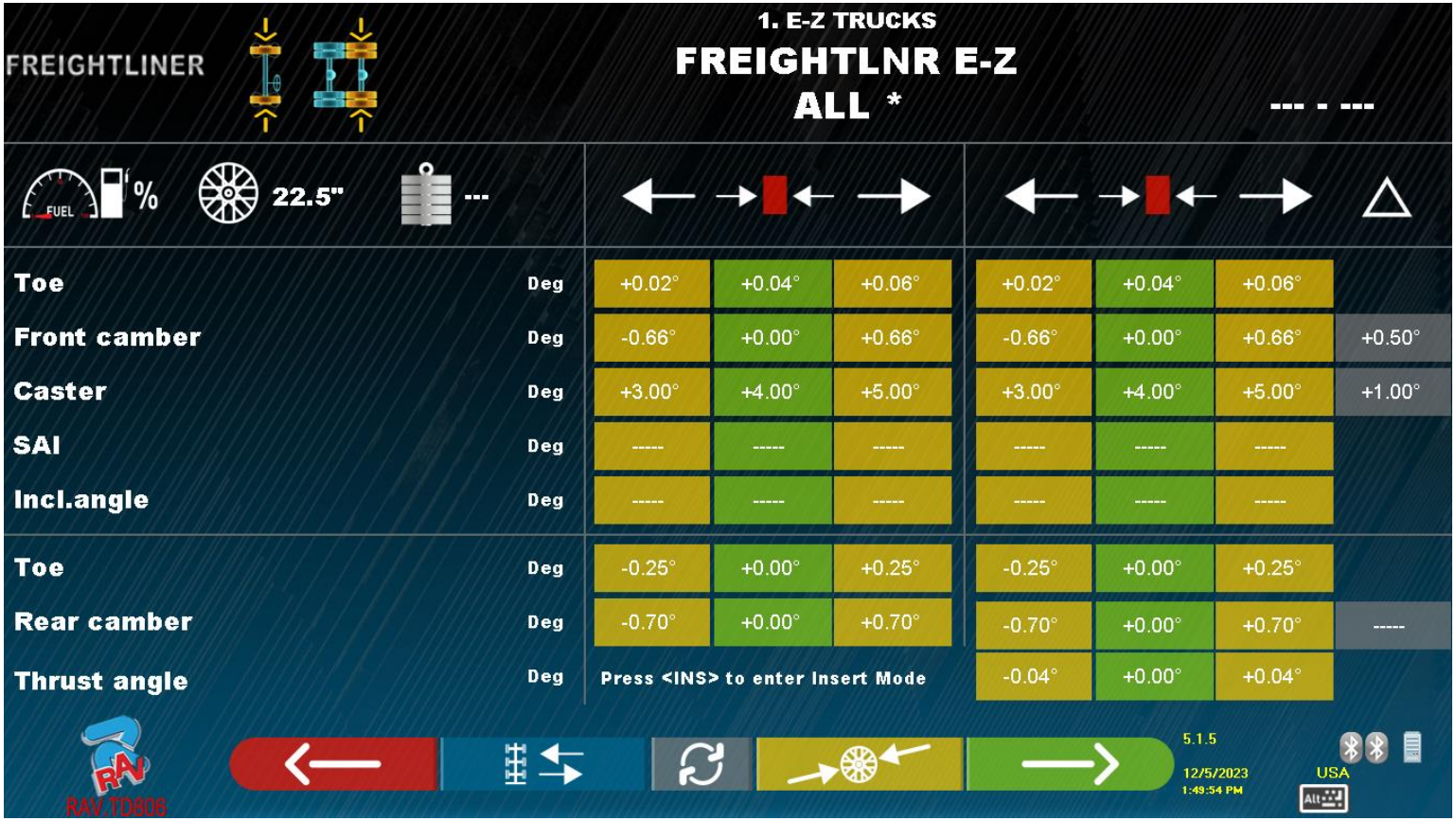
Four button operation from keyboard, sensor head, phone, or tablet.



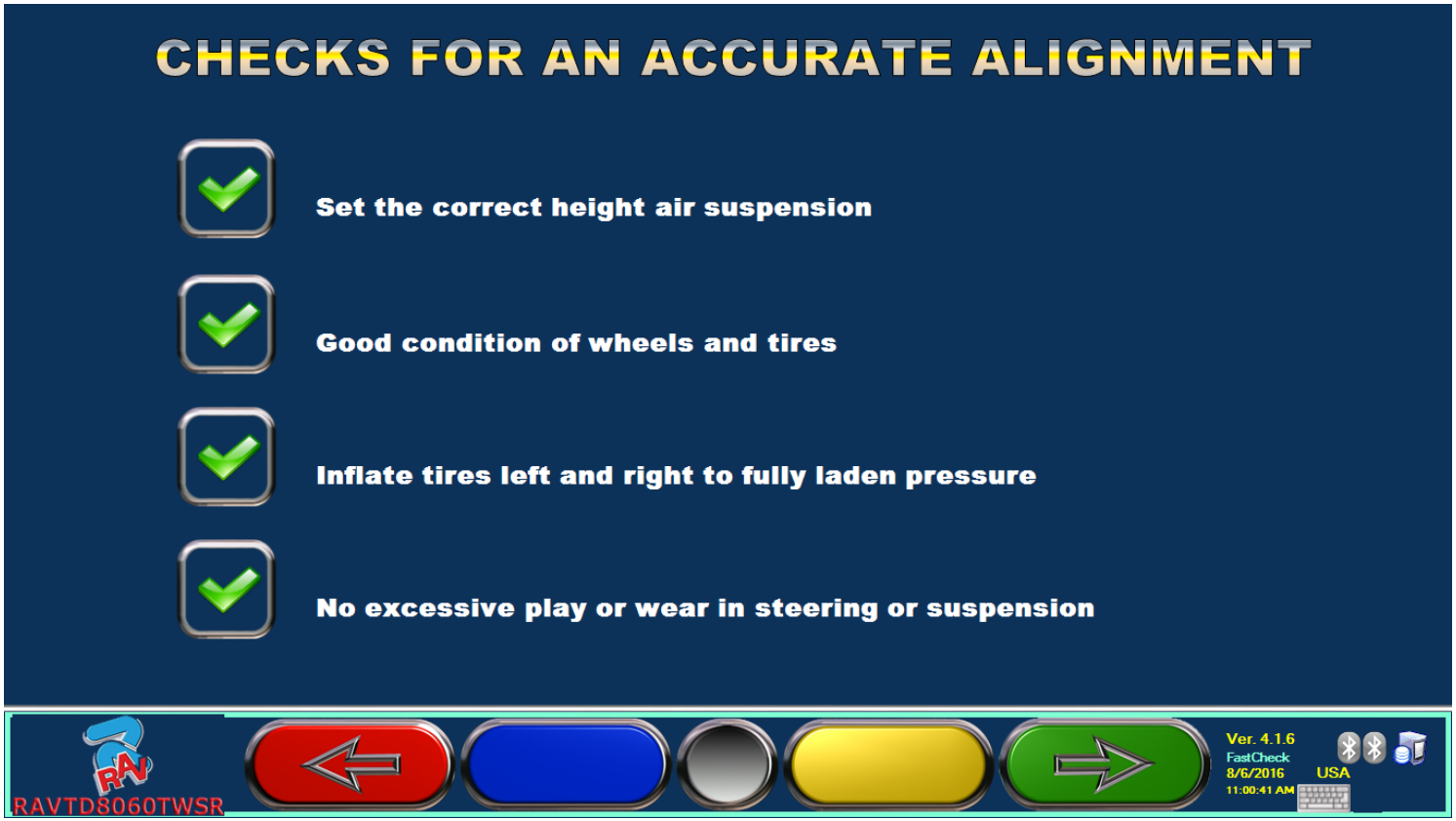
Select Vehicle Type



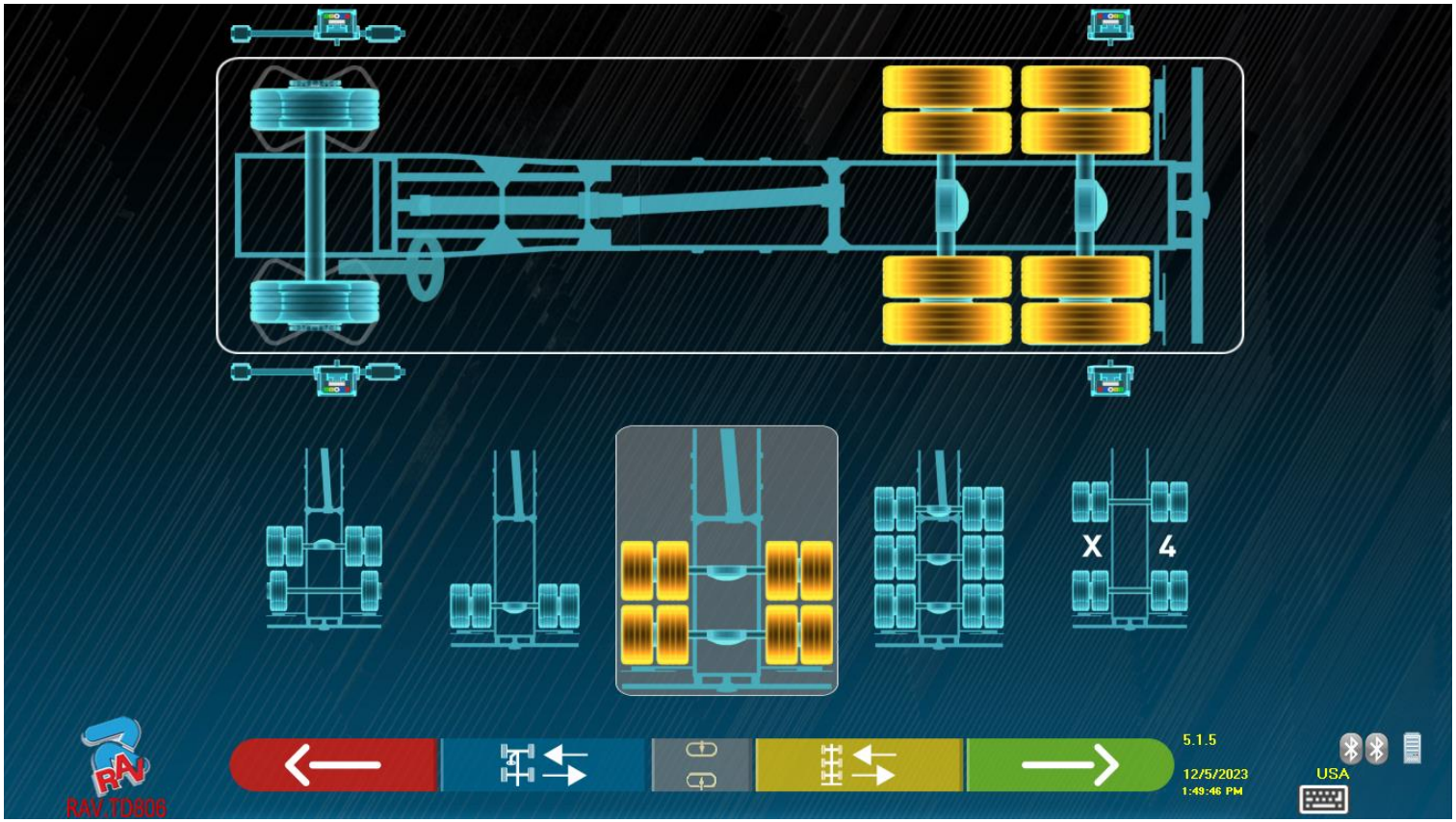
From E-Z Spec Database choose the manufacturer of the truck. You are offered a choice of databases or create your own by inputting custom target data.



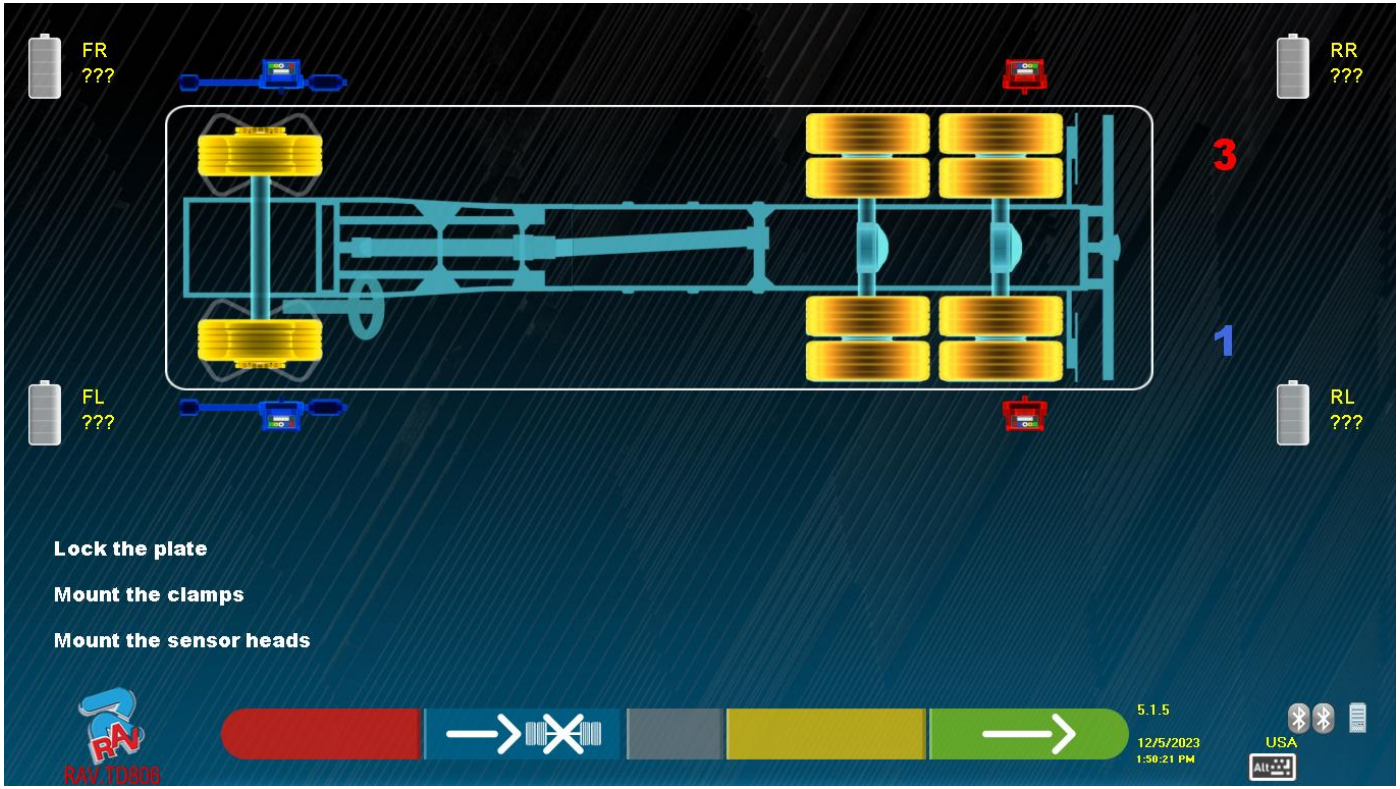
Alignment specifications are displayed for operator's review.



List of preparatory steps to be done before alignment measurement begins.

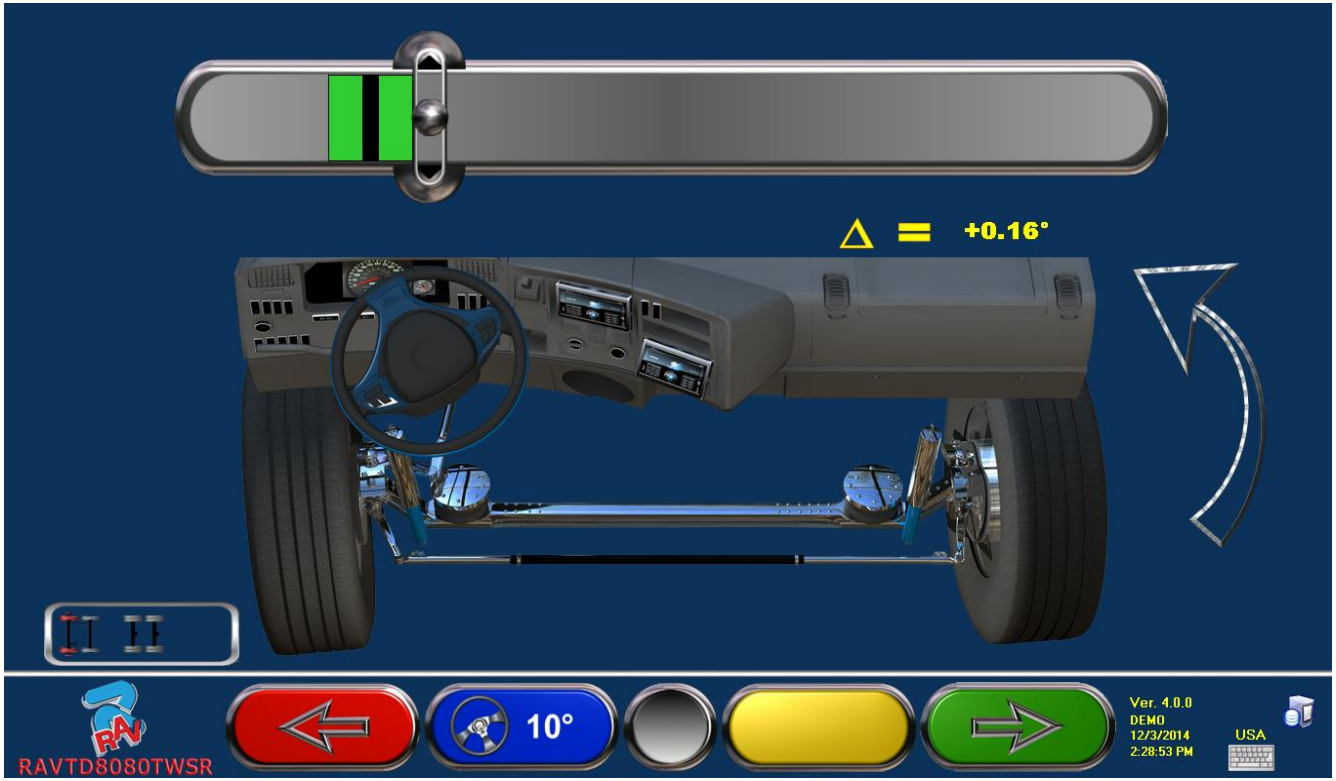


Axle Configuration Screen defaults to standard 3 axle vehicle. Use blue key to change steer axle configuration...use yellow key for choice of rear axle configurations.

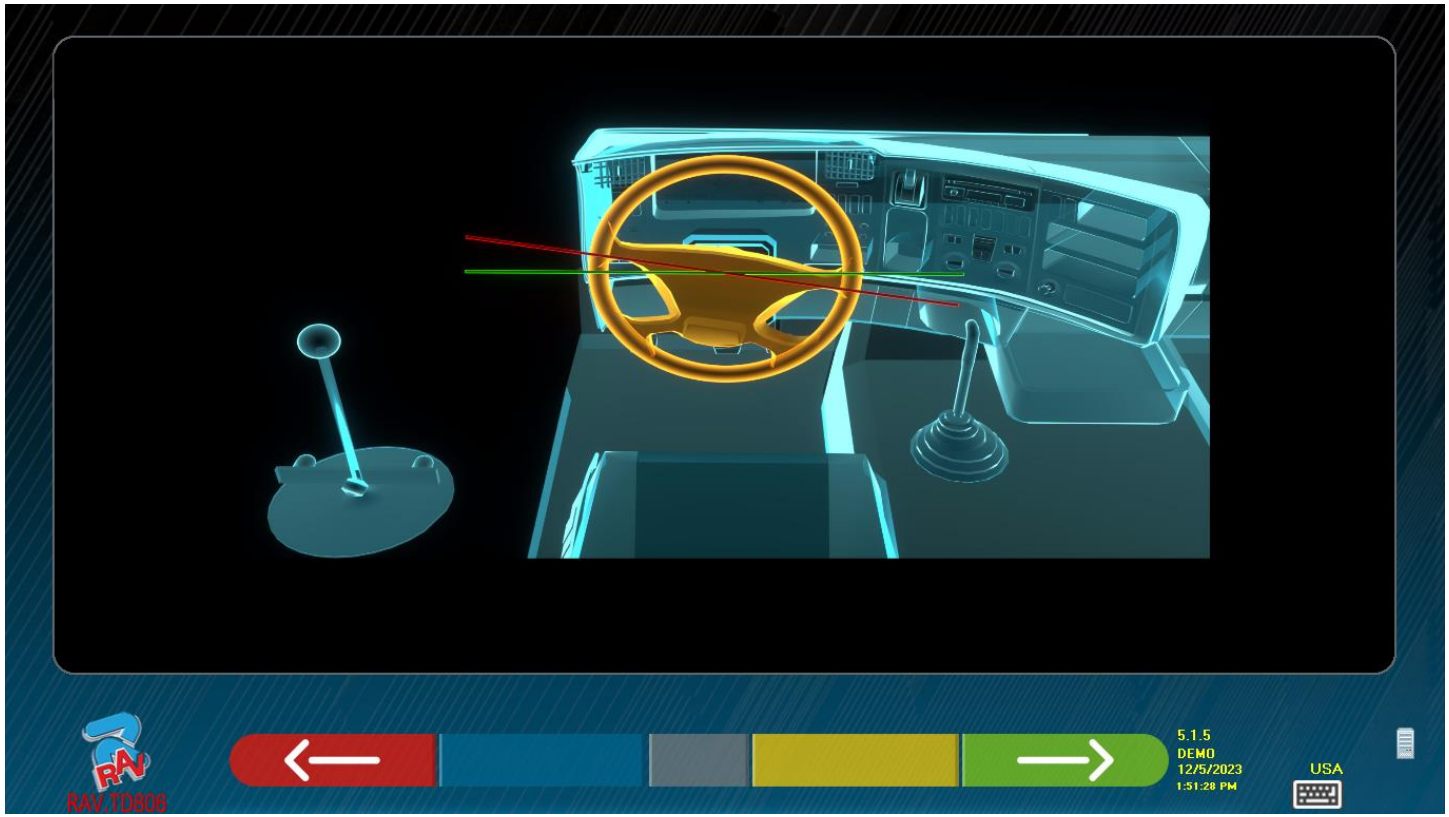


Install fast clamps and sensor heads on the first two axles…Runout compensation is not required.

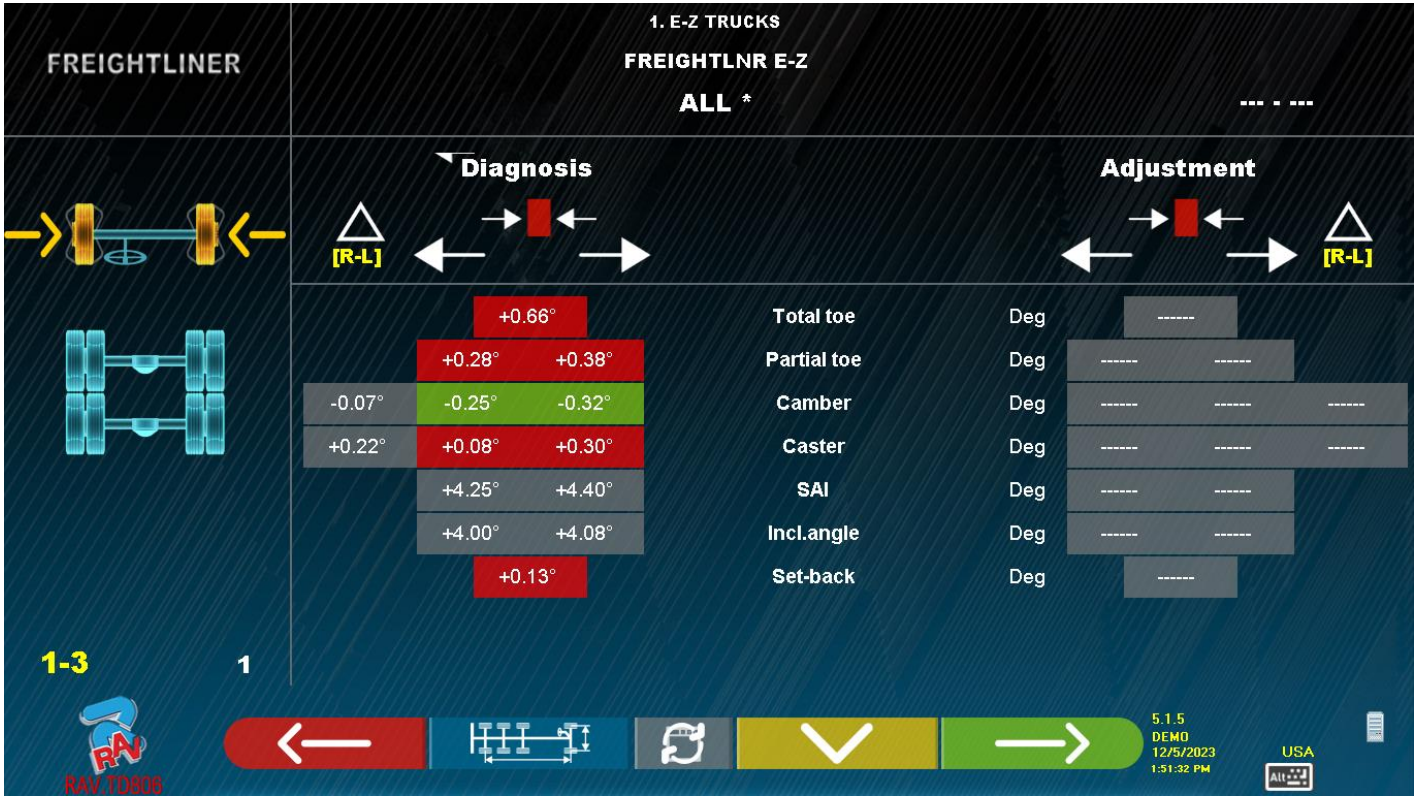
Steer to straight ahead and level front sensor heads.
Toe and camber are measured.



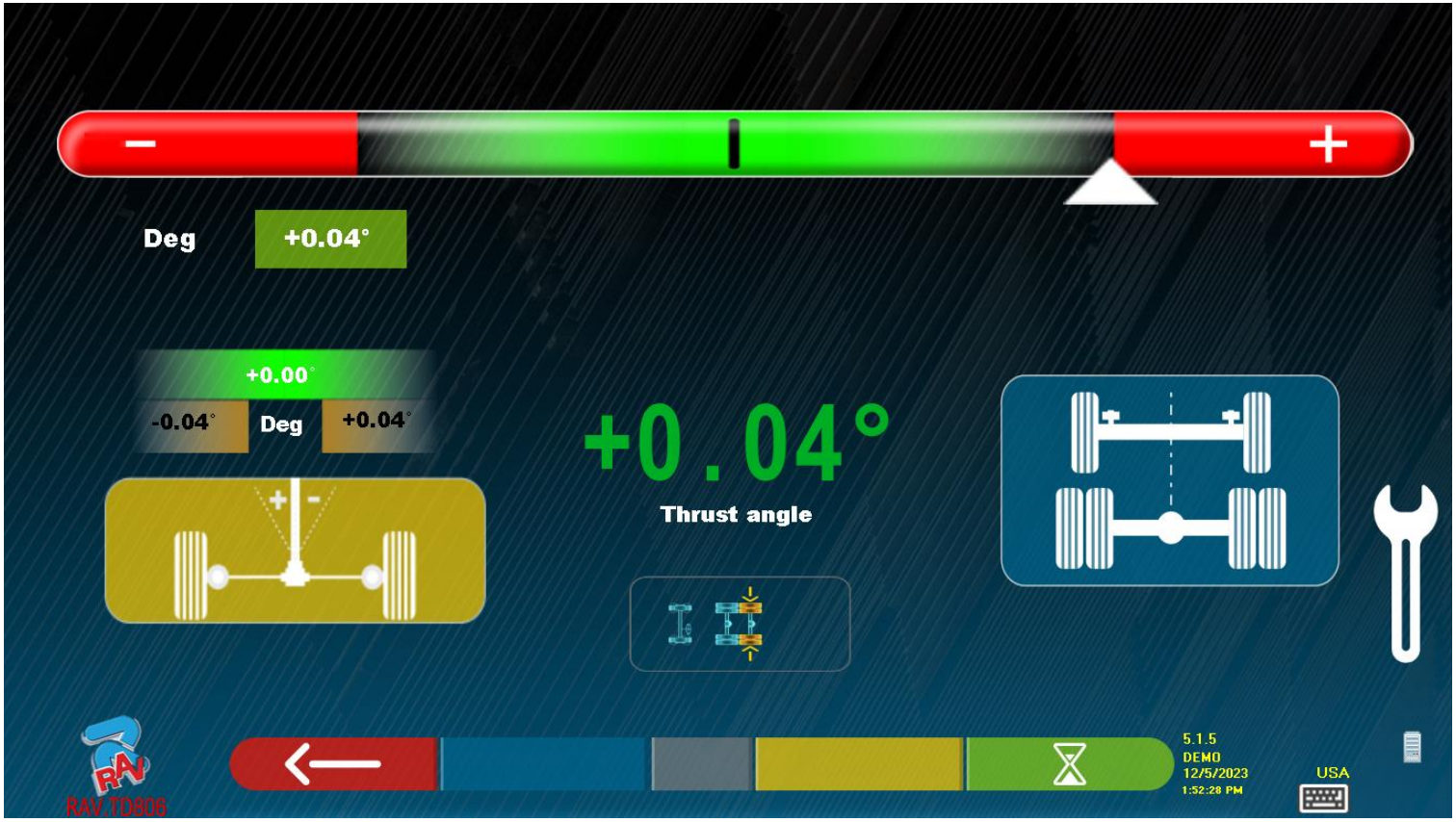
Caster is measured by turning routine. Default setting is 10 degrees. Blue key allows choice of 10 degree, 20 degree, or Ackerman angles.



After completion of turning routine operator is prompted to apply steering wheel lock.



Review of alignment diagnosis before adjustment axle by axle. This screen can be hidden by turning it off in the set-up menu.

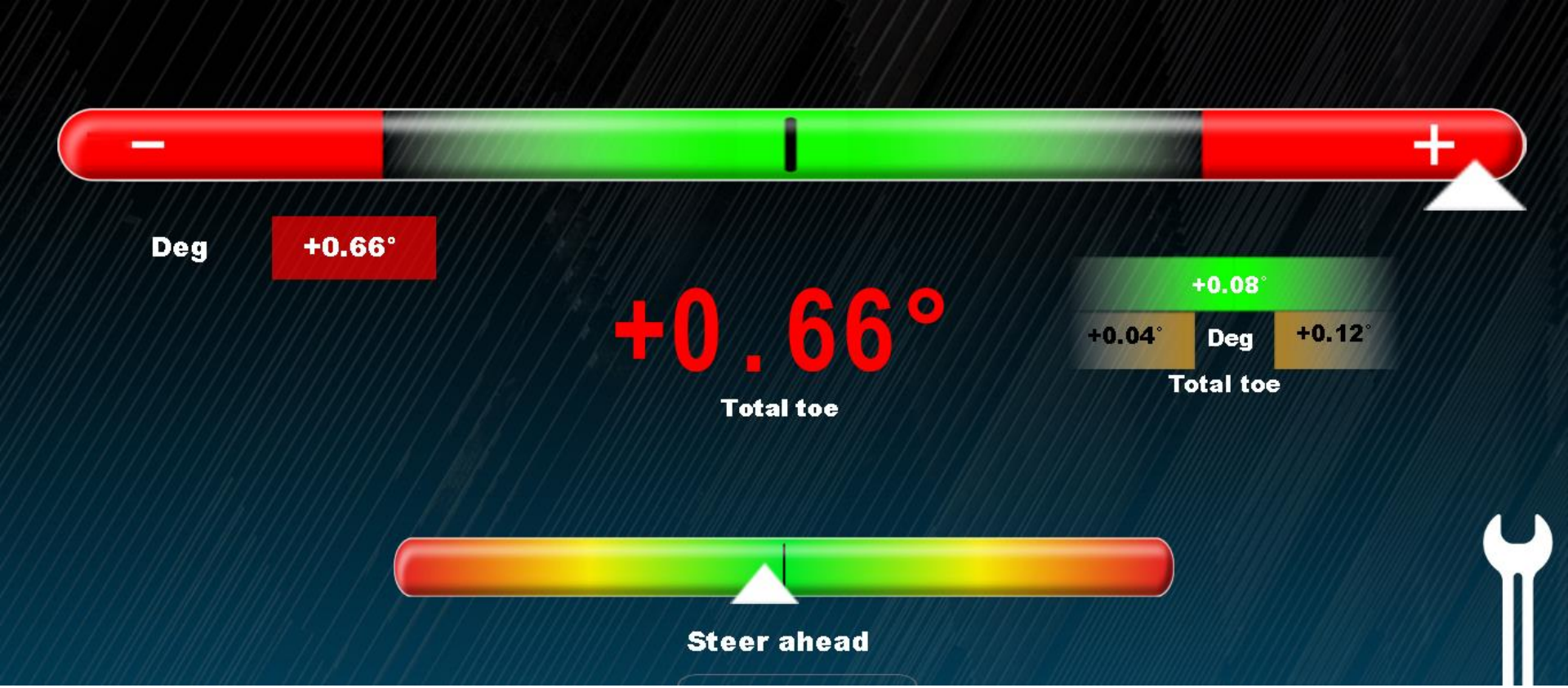


Thrust angle adjustment screen for rear drive axle. Vivid graphics display all information needed to make a precision adjustment.

If additional data is needed for the first rear axle select the yellow key for additional angles.

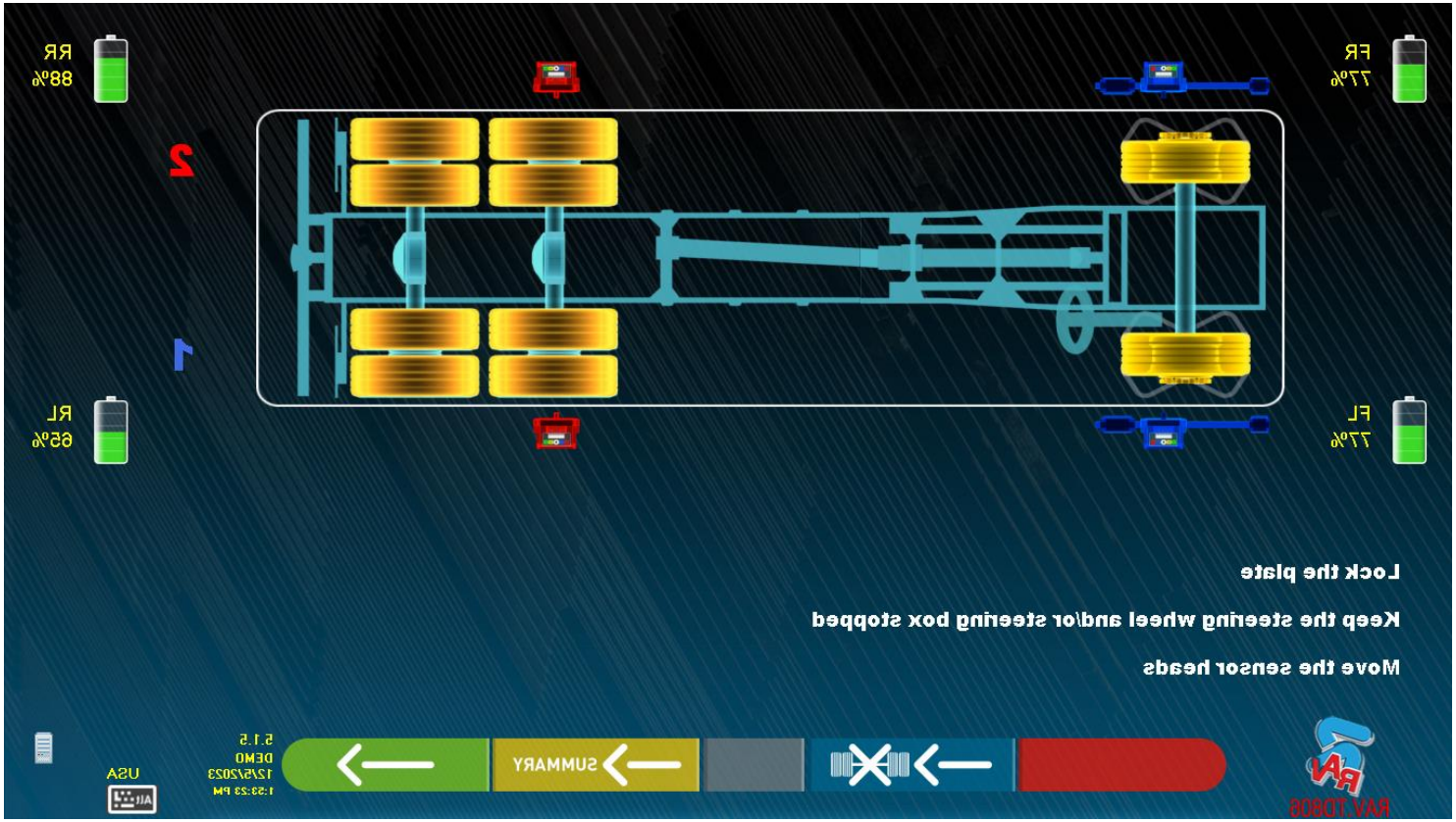
Green arrow forward to adjustment of the steer axle.
Total toe is adjusted using the larger graphic.
The Steer Ahead graphic is useful if you need to produce a straight steering wheel.

Select yellow key to display live or frozen caster, camber, cross caster, and cross camber values. If needed, adjust caster here then select blue key to remeasure caster if preferred.

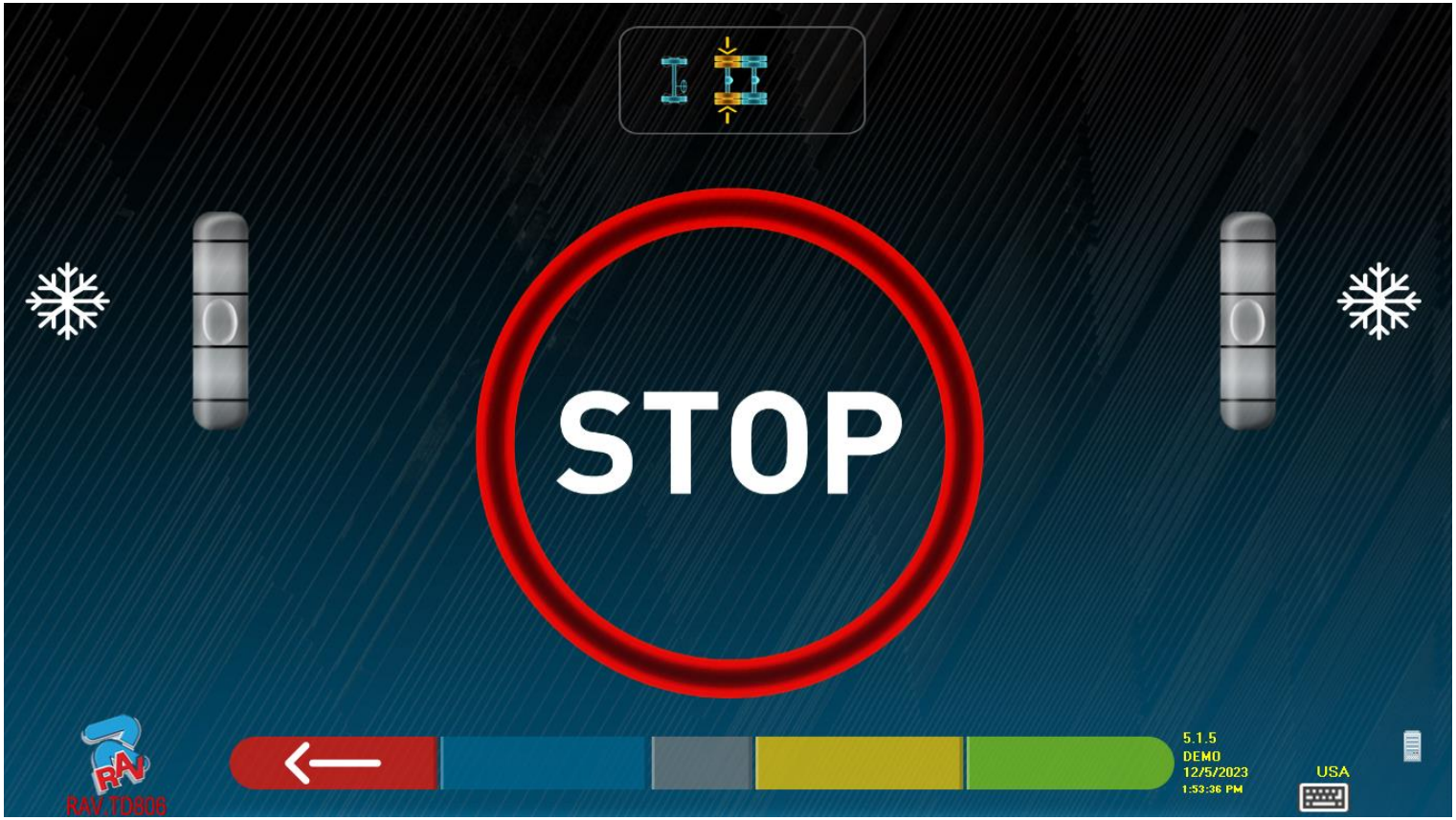


To set steering wheel spoke straight… steer until steer ahead graphic is in the center… then remove steering wheel and re-install it in a straight spoke position.

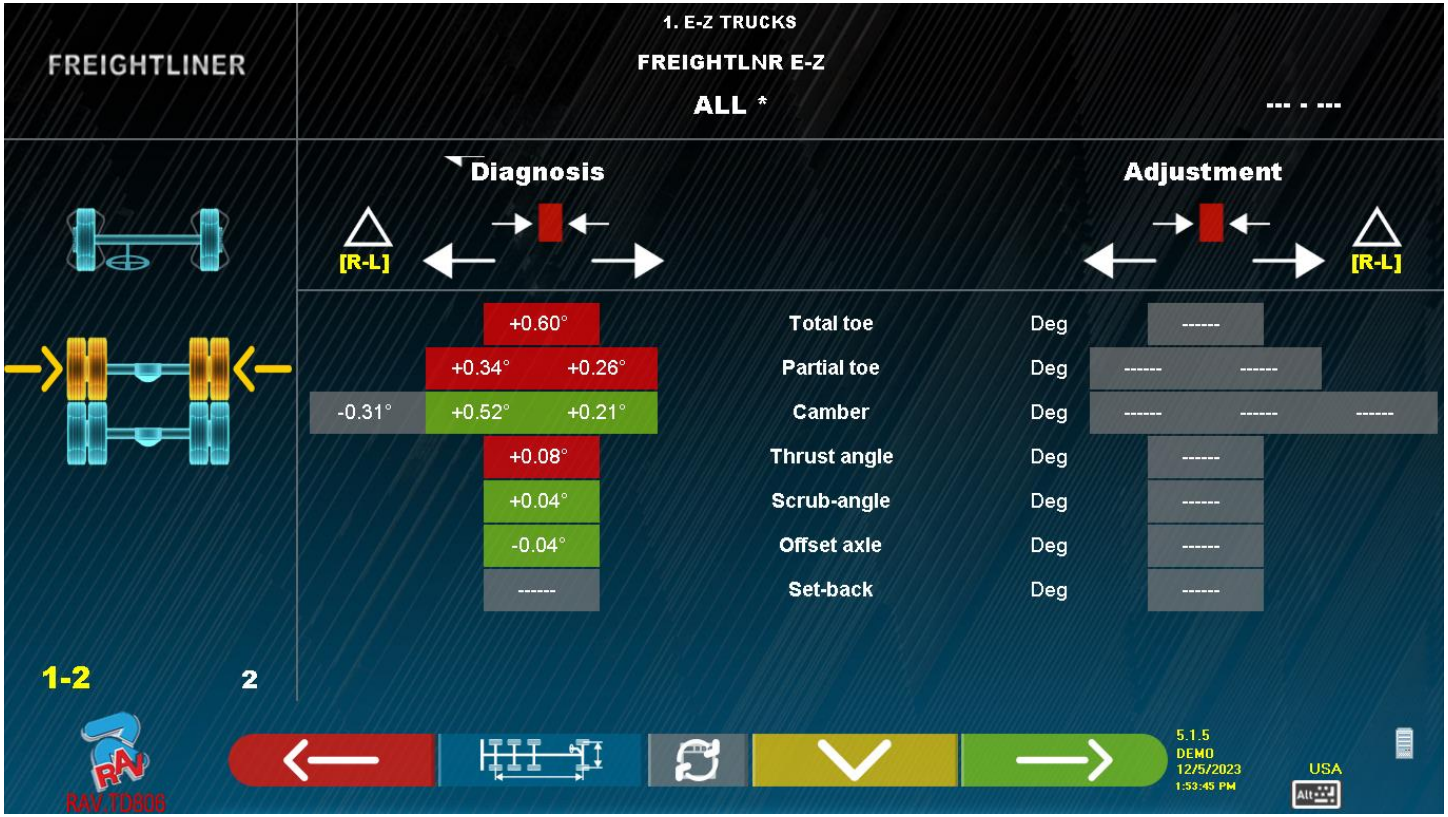
- **After caster is adjusted and re-measured set total toe. Be certain steering wheel lock is in place and move forward with the green key.**



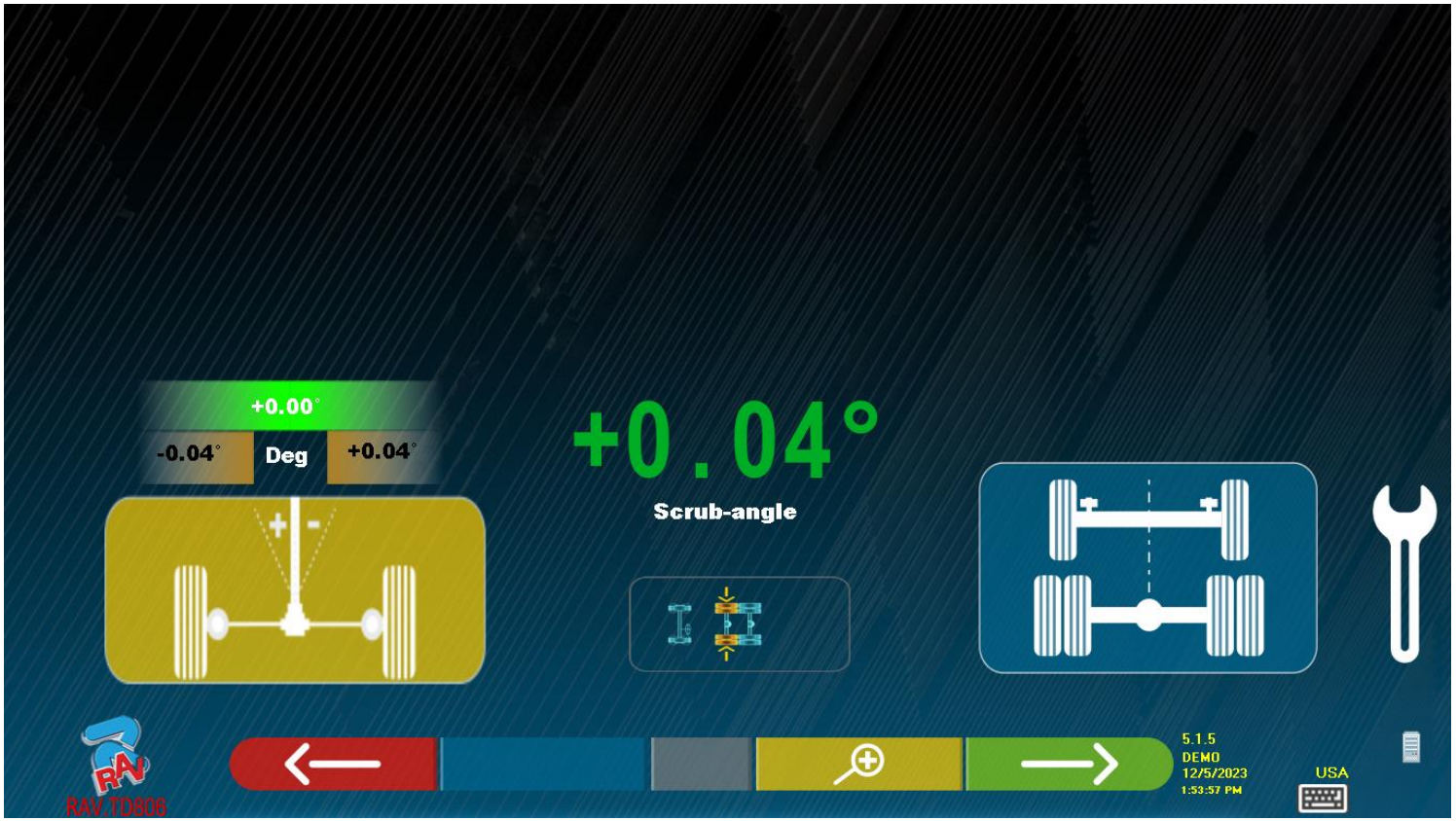
Remove sensors and fast clamps from rear drive axle and install them on the front drive axle.
Keep steering wheel locked.



Front drive axle is now being measured.
Leveling of rear heads is not required.



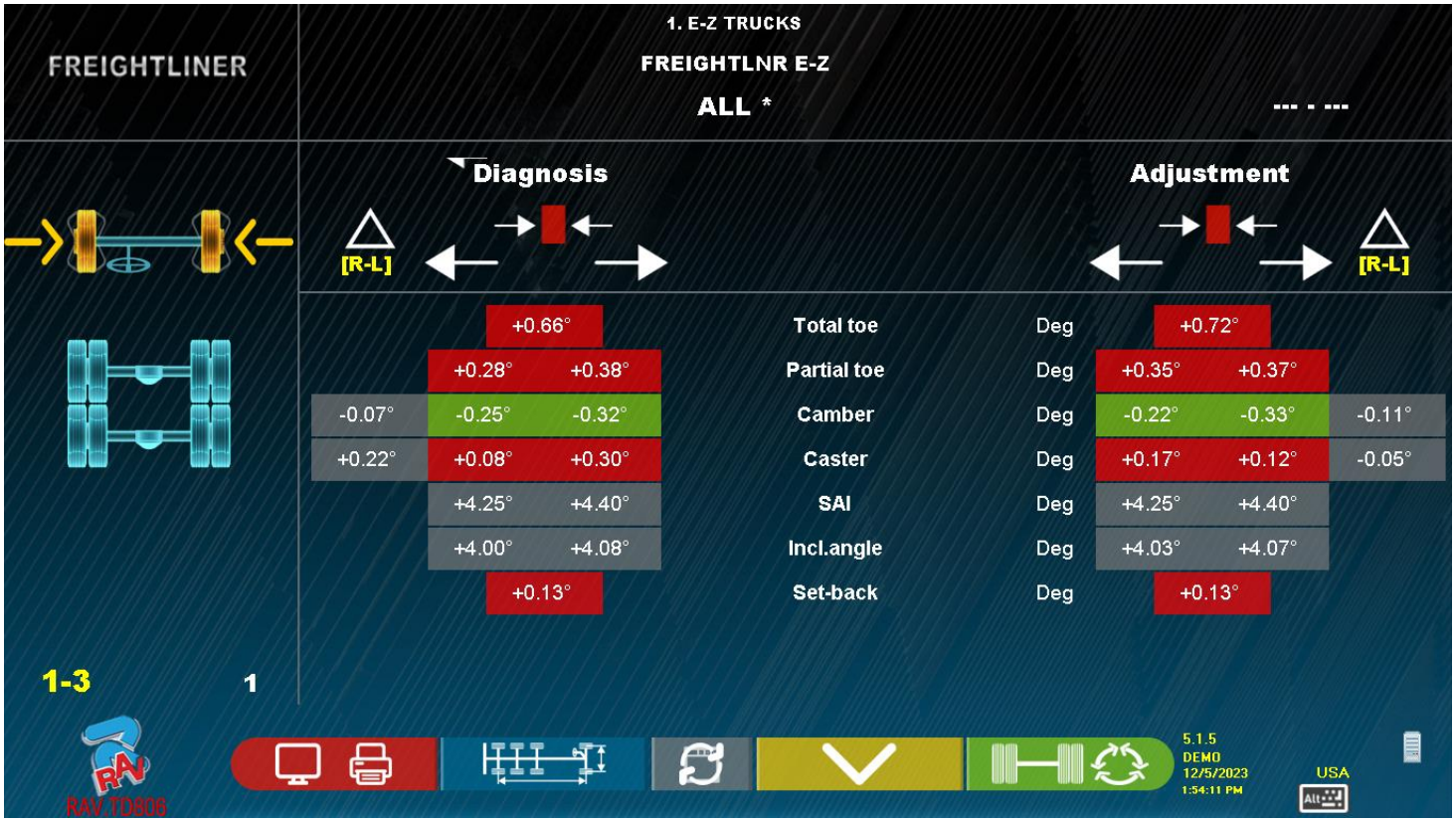
System flows to diagnosis of 2nd drive axle. This step can be skipped by turning the screen off in set up menu.



Adjustment screen for setting scrub angle of front drive axle. Set scrub angle and then green arrow forward.

If you wish to display axle offset values for drive axles turn this feature on in setup menu.

If additional data for the front drive axle is needed select yellow zoom button.



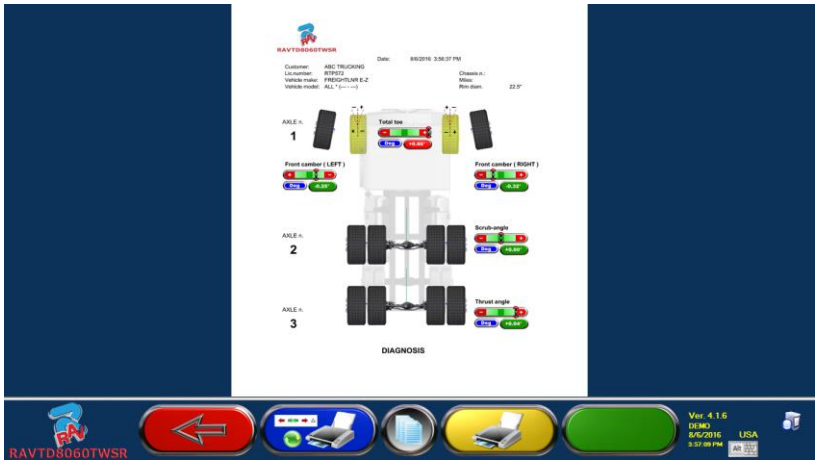
Before and after review after adjustments are made.

Customer and License Number must have entries in order to save alignment report. If you wish to store the VIN you must enter the complete 17 character VIN or enter the last 8 plus 9 other characters i.e. "xxxxxxxxx89564321".

SAVING THE ALIGNMENT

Fill in customer/vehicle information. Yellow fields required in order to save alignment report. Once yellow fields are entered tab down the page. Blue button is now selected if you wish to save the alignment report to the computer.

Two styles of alignment reports…graphic and technical.



Select blue key for graphic style printout.
Yellow key for technical type printout.
ONCE REPORT IS SAVED AND PRINTED SELECT RED ARROW TO RETURN TO HOME.

Alignment is complete and you are back home ready for the next alignment.