



# WHEEL SERVICE EQUIPMENT

## BAYSAVER 3D SYSTEM



## SOFTWARE NAVIGATION Users Manual

<b>KEYBOARD SHORTCUTS HIDDEN FUNCTIONS ACCESSIBLE WITH THE KEYBOARD</b>	
Shortcuts on Aligners WS Software Version (SW ≥ 4.1.6) <b>EVERYWHERE</b>	
Esc , F4 →	BACK LOGO
F12 →	SAVE SCREEN SHOT (in :TMLAB\ALIGNERS9\TEMP\)
Ctrl + ↑ + M	SHOW / HIDE MEMORY TEST AND BUILD RELEASE
Ctrl + ↑ + D	DEBUG MODE /NORMAL MODE
Ctrl + D →	DEMO PROGRAM / NORMAL PROGRAM <b>LOGO PAGE</b>
Ctrl + F2 →	SERVICE MENU
Ctrl + F12 →	DATA LOG → F2 SAVE into USBKEY (DC = Diagnosed Cars/ RC = Registered Cars / SC = Saved Cars) Alt + F2
Alt + F2 →	SELECT QUICK CHECK MODE
<b>DATA BANK - VEHICLE LIST DISPLAYING</b>	
Alt + F2 →	COMPRESS AND DECOMPRESS IF VEHICLES (if compact model view option is set to "group similar ones" )
Alt + F5 →	ADDITIONAL INFO (where present) <b>PRINT PREVIEW</b>
Alt + F2 →	SELECT ANOTHER PRINTER <b>CHASSIS DIAGNOSIS DISPLAYING</b>
Alt + F3 →	SET BACK LIVE VISUALIZATION
<b>DIAGNOSIS / ADJUSTMENT</b>	
+ F5→	TOE TOTAL / TOE PARTIAL
Ctrl + F4 →	TOE in mm/ Toe in centesimal Degree° / Toe in sexagesimal Degree° <b>REAR ADJUSTMENT</b>
+ F6 →	FREEZE/UNFREEZE CASTER VALUES Alt + F3 → SET-BACK LIVE ADJUSTMENT
Alt + F1 →	SHOW MOVIES FOR ADJUSTMENT HELP (model provided, where present) <b>FRONT ADJUSTMENT</b>
↑ + F6 →	FREEZE/UNFREEZE CASTER VALUES
Alt + F1 →	KING PIN LIVE ADJUSTMENT HELP (available if set in menu)
Alt + F2 →	CASTER LIVE ADJUSTMENT HELP (available if set in menu)
Alt + F4 →	SHOW CLIP FOR ADJUSTMENT HELP (model provided, where present)
<b>ADJUSTMENT (Truck mode)</b>	
Alt + F3 →	SET-BACK LIVE ADJUSTMENT <b>INTERMEDIATE SUMMARY (Truck mode)</b>
Alt + F1 →	CUSTOMER DATA ENTRY PAGE BEFORE PRINT PREVIEW

## Basic Auto/Light Truck Alignment

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



Select Measurement Mode Normal is the default setting. Select F key only if you wish to enter FastCheck mode.

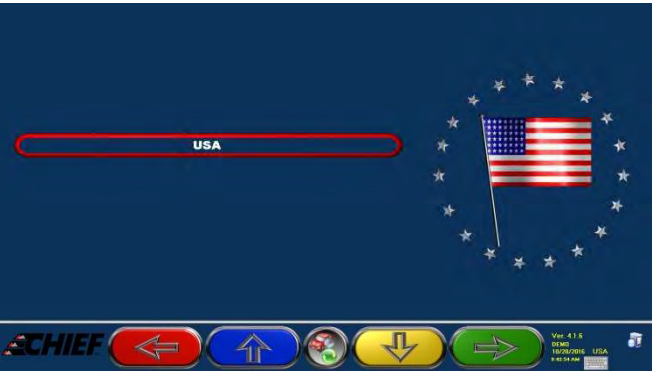


Sport Mode When extremely low clearance cars block the CCD beam from one camera to the other.



Select Vehicle Specs by Make, Model, Year

This screen sequence shows vehicle selection process.





## Vehicle Selection From VIN

Vehicle can also be selected from the integrated VIN data base using one of two methods: Input using optional 2D wireless scanner or typing the VIN using the system keyboard.

MODEL NAME

V.I.N. Vehicle Identification Number (>= 3 CHAR)

**NM0AE8F78F1200374**

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Navigation buttons: Left arrow, V.I.N. button, Right arrow, and a yellow button.

Alignment specifications are displayed for operator's review. Blue wrench and/or camera icons indicate adjustment illustrations exist. Illustrations can be accessed later from the adjustment screens.

**CHEVY TRUCKS USA**  
**AVALANCHE 1500 4WD 16" Tire**  
**2002 - 2003**

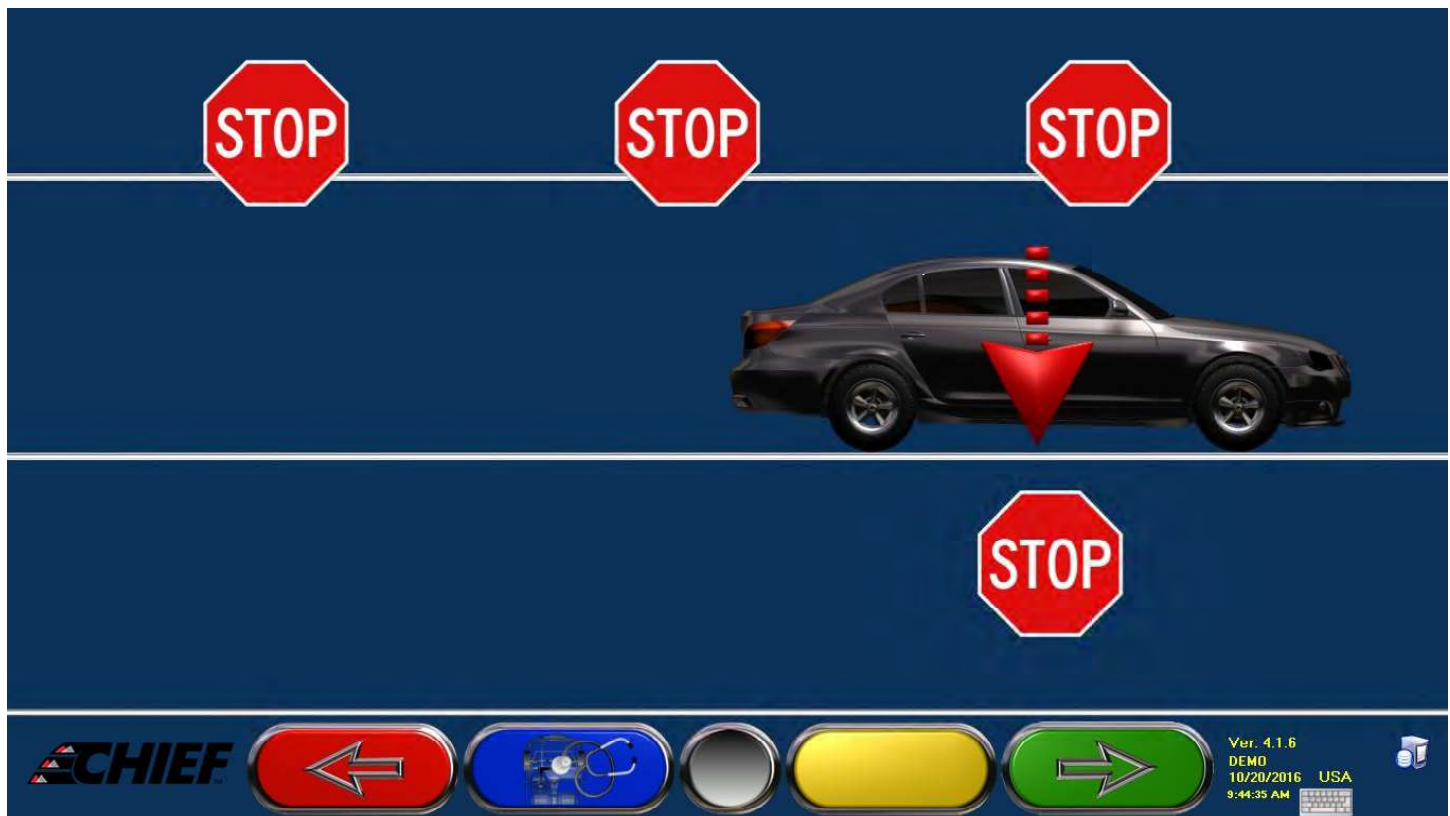
Left side icons: Top view of truck, Fuel gauge, Suspension diagram, Wheel diagram with 16" label.

Specification	Unit	Value 1	Value 2	Value 3	Value 4
Total toe	Deg	-0.10°	+0.10°	+0.30°	
Front camber	Deg	-0.25°	+0.25°	+0.75°	----
Caster	Deg	+2.50°	+3.50°	+4.50°	----
King-pin	Deg	----	----	----	
Incl. angle	Deg	----	----	----	
Total toe	Deg	----	----	----	
Rear camber	Deg	----	----	----	----
Thrust angle	Deg	-0.25°	+0.00°	+0.25°	

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Navigation buttons: Left arrow, Blue button, % button, Yellow button, Right arrow.

Screen for rolling runout compensation which is not required with non-runout wheel clamps. Blue button is another way to access FastCheck mode.



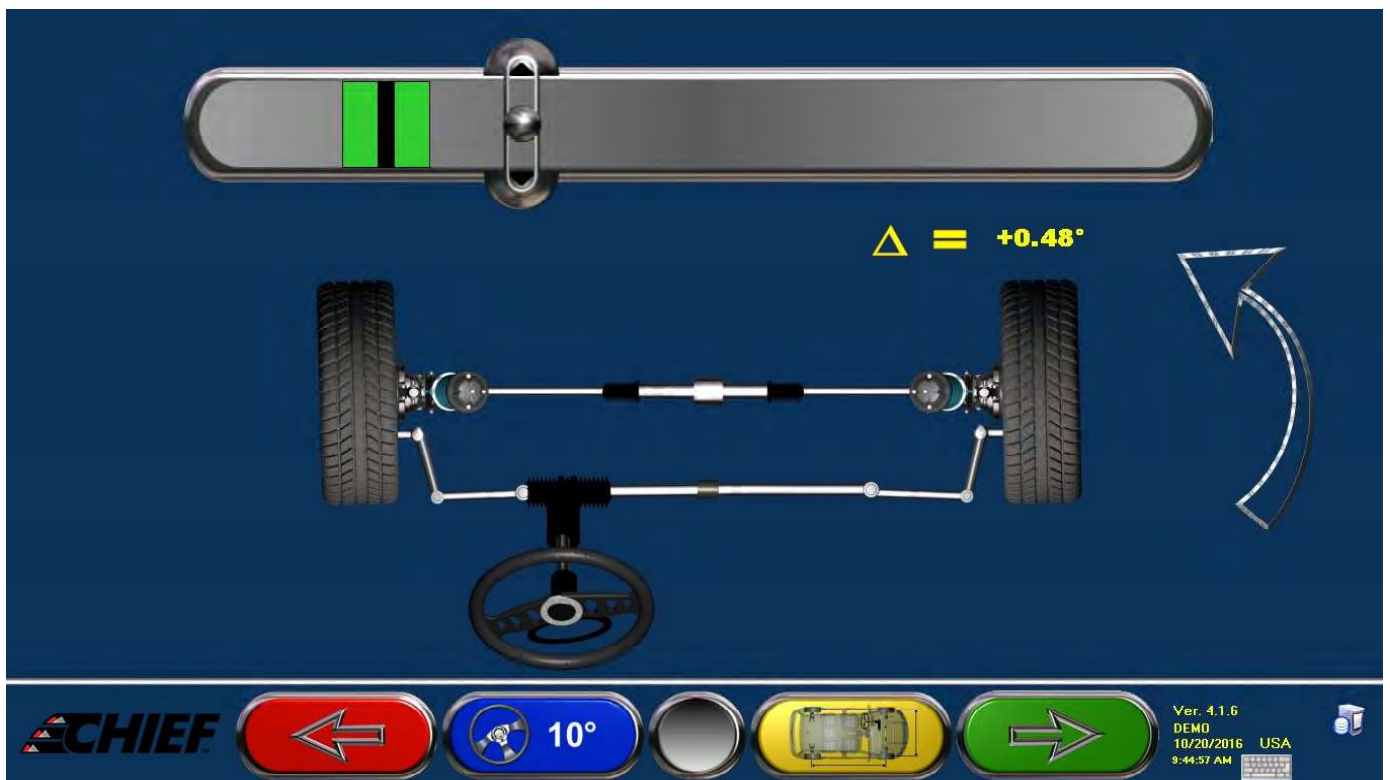
Remove turntable pins, install brake lock so that vehicle does not move during caster measurement, and joust the suspension.



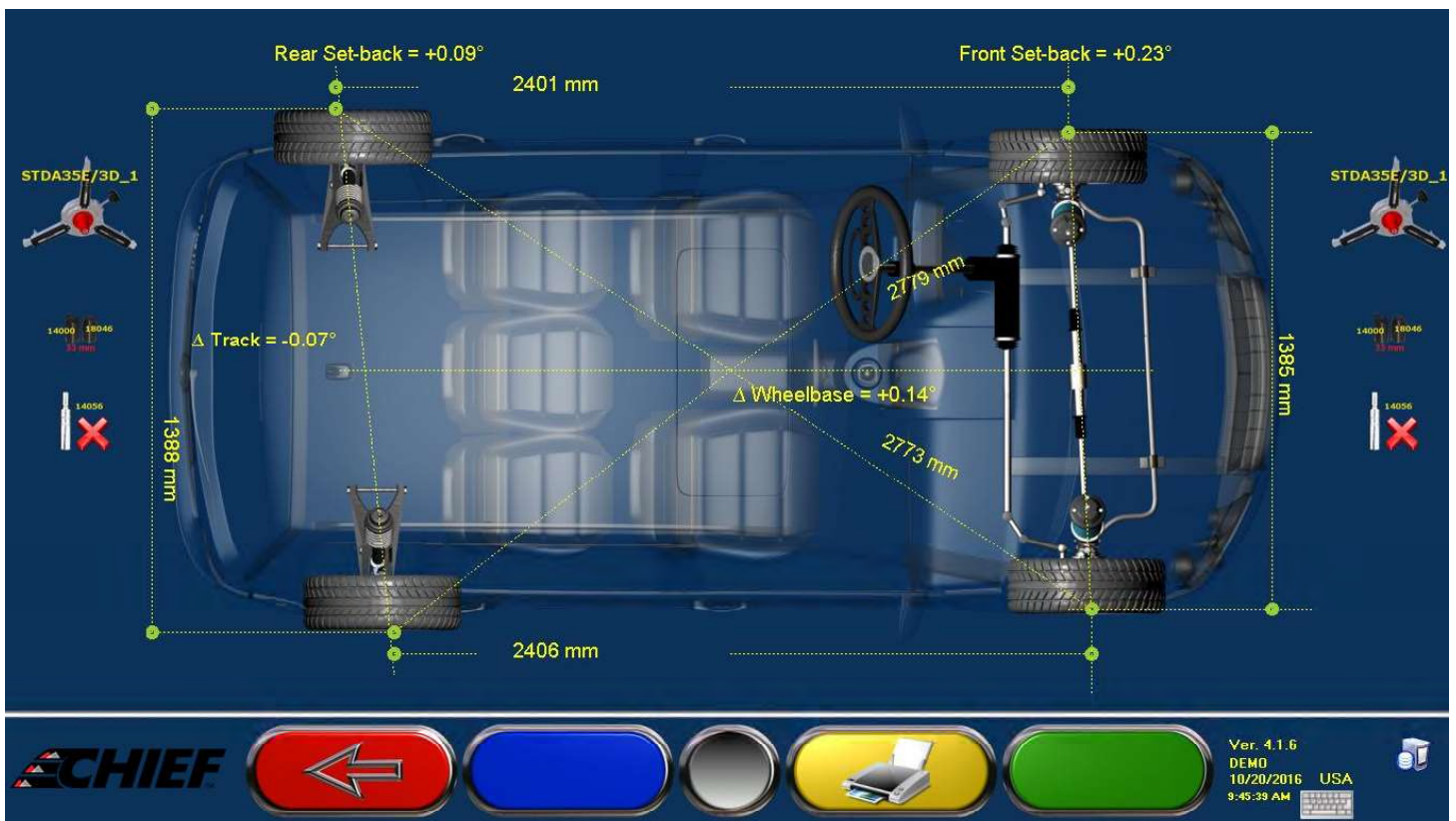
Steer the vehicle to straight ahead and Stop.



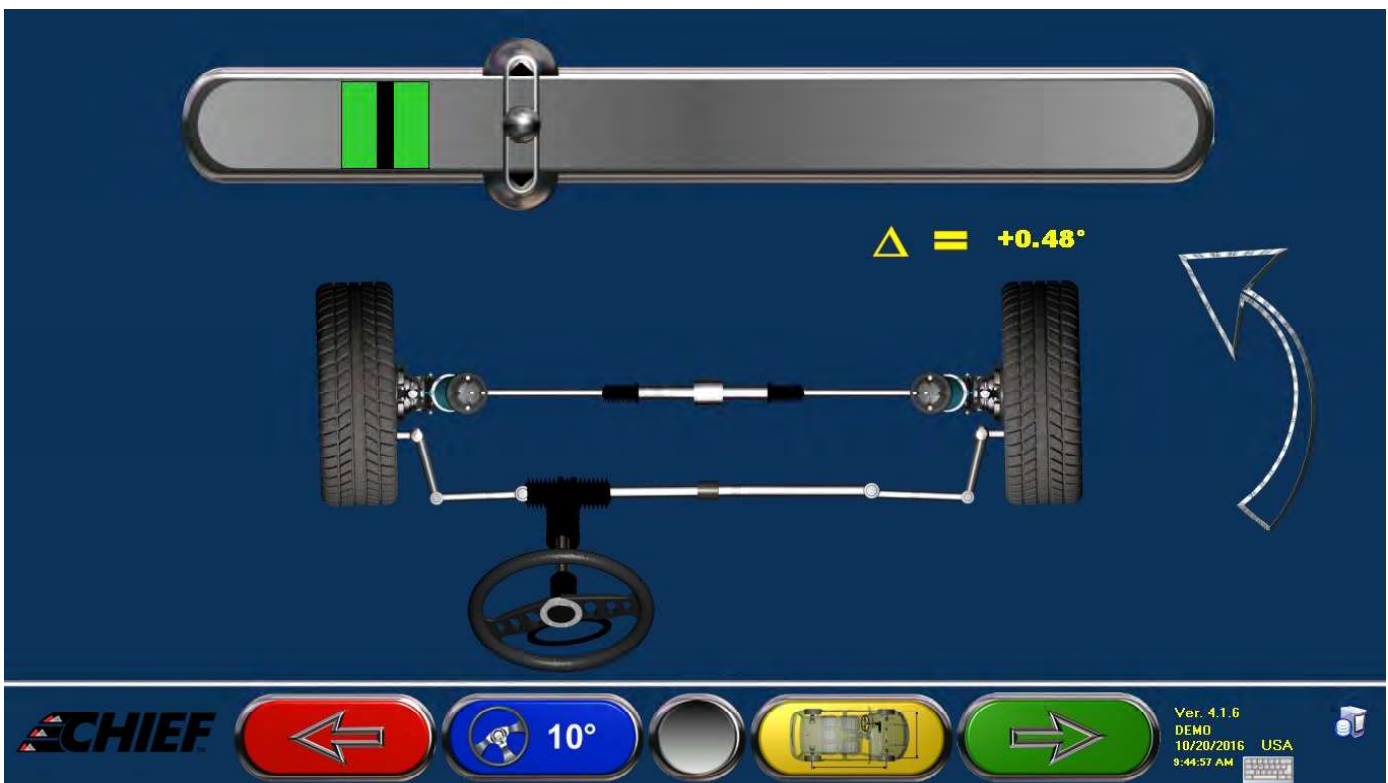
Chassis data is available by selecting the yellow key.







Chassis Data Screen is printable.



Caster is measured by turning routine. Default setting is 10 degrees. Blue key allows choice of 10 degree, 20 degree, or Ackerman angle. Turn left until pointer is on the target.





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

**CHEVY TRUCKS USA • AVALANCHE**

Front axle		Rear axle	
Total toe	-0.06°	Total toe	+0.25°
Fr. toe partial	+0.02°	Rear toe partial	+0.15°
Front camber	+1.77°	Rear camber	+0.49°
Caster	+1.51°	Thrust angle	+0.00°
King-pin	+5.73°		
Incl. angle	+7.50°		

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Review of alignment diagnosis before adjustment is available in both table and graphic format. Change from one to the another with the F5 or black center key on the head or the phone.

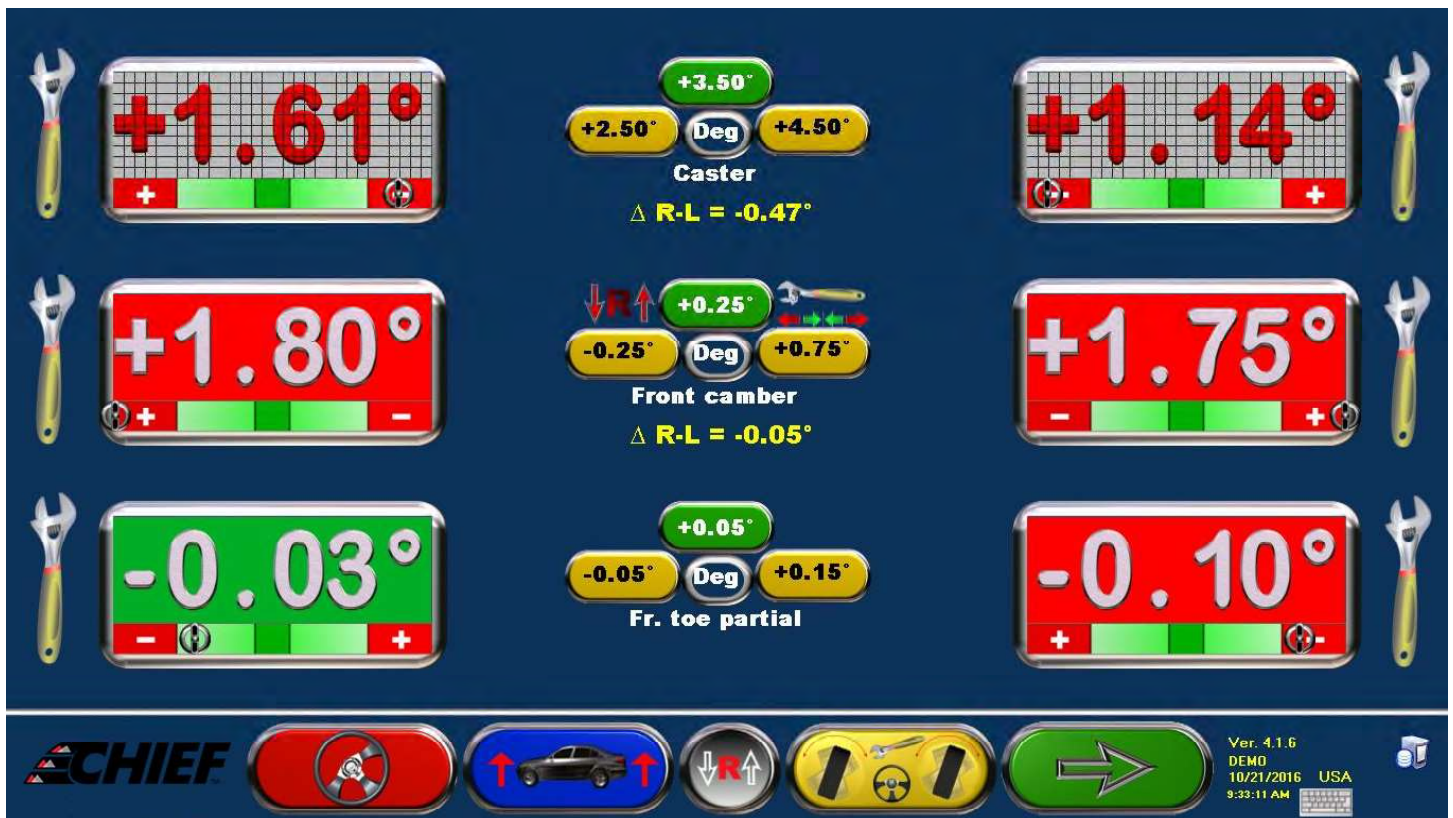


To progress from the measurement stage to the adjustment phase of the program simply select green to confirm.



Rear Axle Adjustment Screen is live. Wrenches in the side margin indicate this is a live adjustment screen. Blue key allows you to change screen view.





Front adjustment screen with live caster, camber, and individual toe. To access total toe bar graph select Shift/F5 from the keyboard.



## Adjustments in Raised Mode

### Step 1



Raised mode can be used for front or rear axle. Select the blue key to enter raised mode. Once vehicle is raised and supported by jacking beam confirm with F5 key or by pressing center black key on sensor head or on the Smartphone.

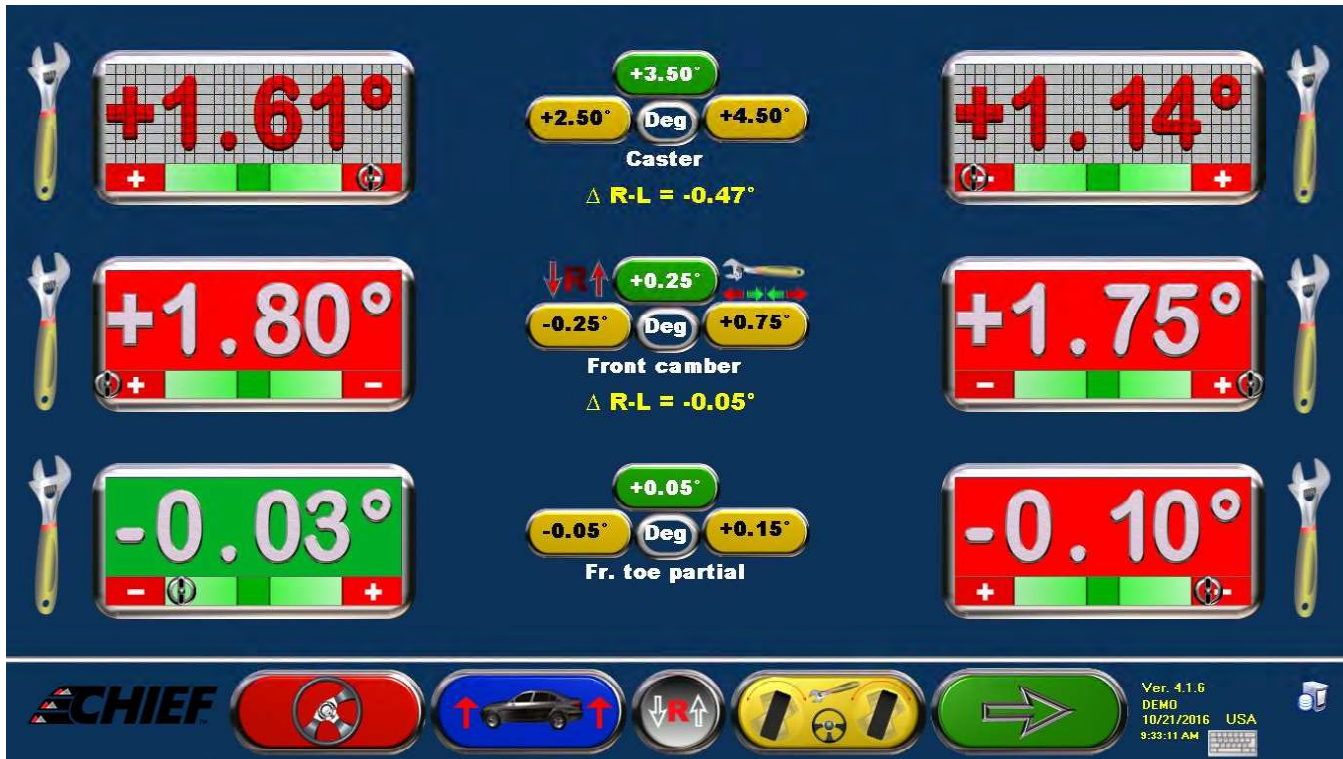
## Adjustments in Raised Mode

### Step 2



Make adjustments with vehicle raised. When adjustment procedure is done select blue key to lower the vehicle. When vehicle is back down on the platforms confirm using F5 key or the center black key on the measuring head or on the phone.

## Toe Adjustment with Wheels Steered (Rav-Toe)



Application for setting front toe when wheels need to be steered away from center due to a lack of space. Also used when operator prefers not to use the steering wheel lock. Select this feature with the yellow key.

## Toe Adjustment with Wheels Steered (RavToe)

### Step 1



Steer left then right to equalize pressure in the steering system. Position steering wheel in desired straight position then select F5 or black center button on sensor head or on smartphone to confirm.



## Toe Adjustment with Wheels Steered (Rav-Toe)

### Step 2



Select either right or left wheel to begin by choosing the blue or yellow key. The snowflake icon on the key indicates that the side not chosen will be frozen so that its toe values remain unchanged. The side chosen will become “live” and the grid will be removed from that adjustment box.

## Toe Adjustment with Wheels Steered (Rav-Toe)

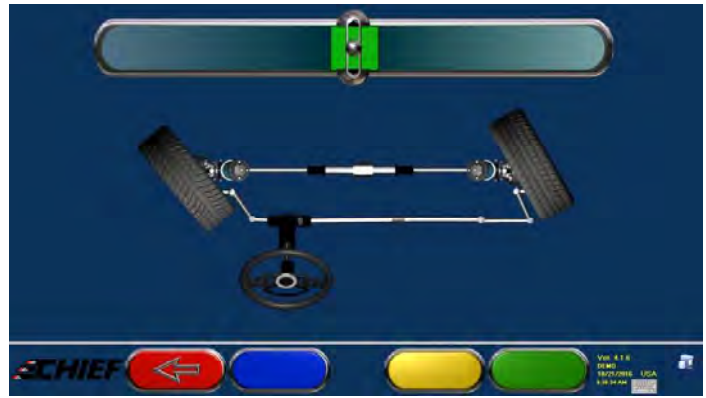
### Step 3



Adjust left individual toe angle to preferred setting. Select blue key to freeze those values. Select yellow key to adjust right side toe value. Adjust to preferred setting and select yellow key to freeze those values.

## Toe Adjustment with Wheels Steered (Rav-Toe)

### Step 4



Select red key for final steering procedure. Steer to position wheel in the desired straight position. Select F5 on the keyboard or the black key on the sensor head or smartphone to confirm.

## Accessing Adjustment Illustrations from the Adjustment Screens



From the front or rear adjustment screen select ALT-F4 from the keyboard.

## Advancing to the Print and Store Function



Select green to advance to the summary screen. Then select yellow (printer icon) to move to the customer information page. Note: Customer information can also be entered at the beginning of the alignment procedure. Note: Fields indicated by an asterisk \* must be completed.

## Choice of Printout Styles



Select yellow key to print. Blue key toggles from graphic printout to technical style printout.



## FASTCHECK MODE



Fastcheck to sell more alignment services



SELECT "F" TO CHANGE FROM NORMAL TO FASTCHECK MODE THEN SELECT GREEN TO MOVE FORWARD



Select vehicle using the VIN scanner or typing the VIN into the designated field. Vehicle can also be selected by make, model, and year.



Remote operation....Computer console can be stationed anywhere in the workshop...System is operated remotely by phone or tablet. No dedicated service lane is required! The FastCheck system goes to the vehicle instead of the vehicle being required to come to the test system. Fastchecks can be done on one or both axles.



Alignment specifications are displayed for operator's review. Select Green and move forward. Steer to straight ahead.



Software flows to printable summary screen. Choose Red To Move Forward to Print



# Diagnosis

Customer\*

Lic.number\*

Chassis n.

V.I.N.

Miles

Note

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DEMO FastCheck

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Customer and license number fields must have entries. If you wish to store the VIN you must enter the full 17 characters. Prepare to print and store the alignment: Input customer information and select Yellow for Print Menu



Email the printout to your customer or to your front desk from your Smart Phone or Tablet! Select Blue for graphic style printout then select Yellow to Print.



Your RAV system can be operated and viewed from your smart phone or tablet! Email the printout to your customer or to your front desk from your Smartphone or Tablet!

# Alignment Wheel Runout



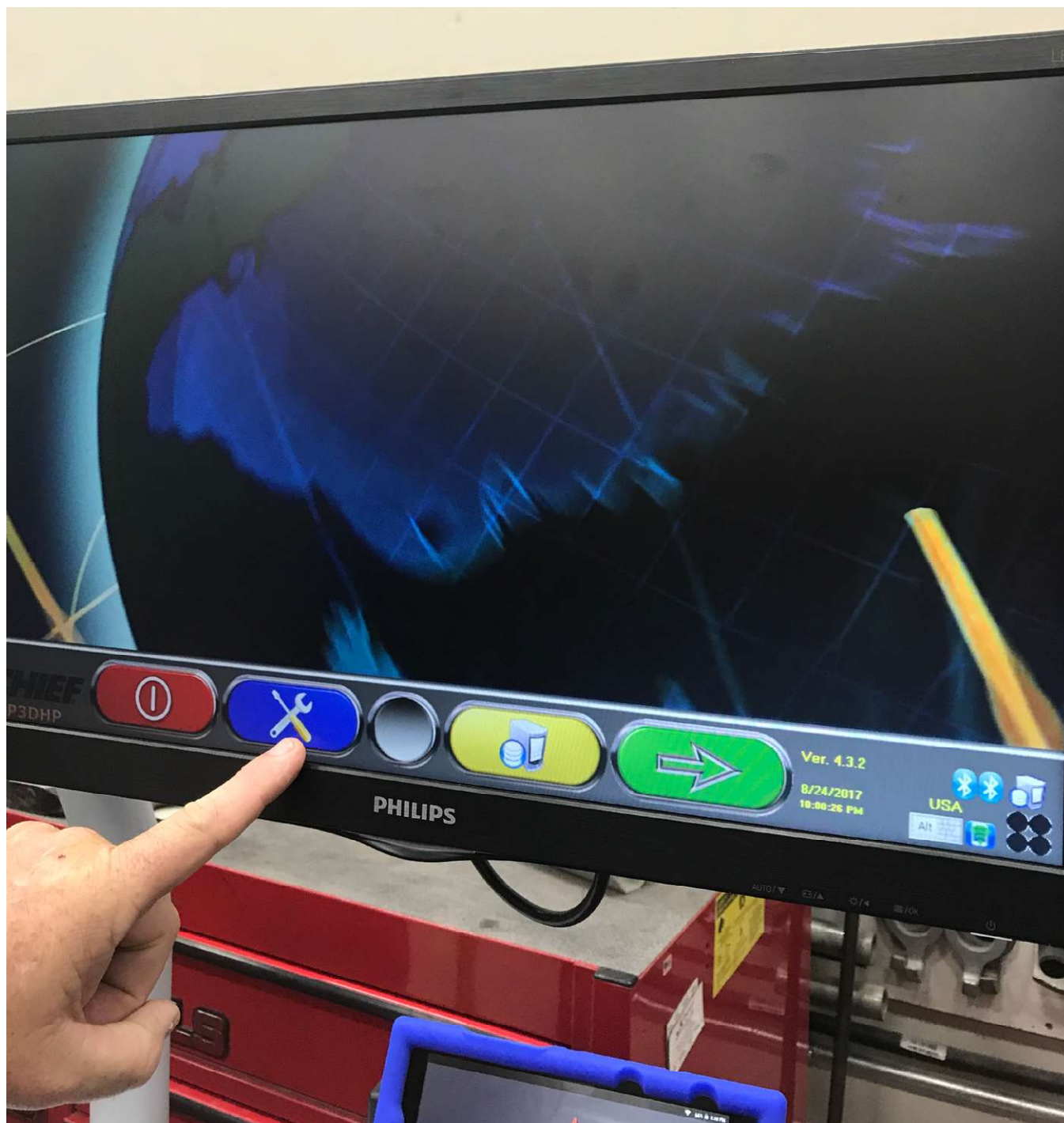
USERS MANUAL







Home screen



Select maintenance "F2" on the keyboard.





Press "F3" on the keyboard scroll to select "Additional features".

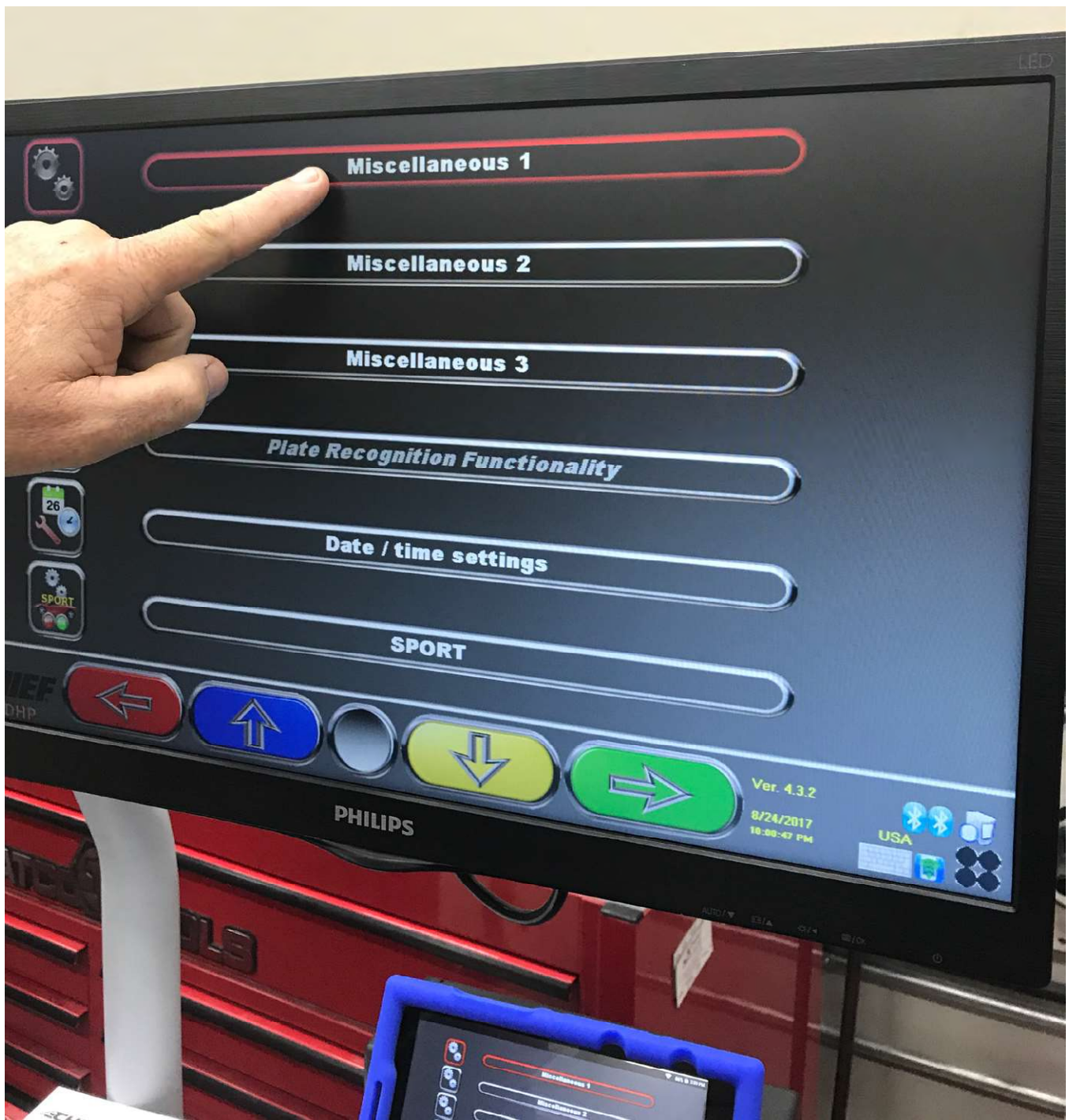
Press "F4" on the keyboard to select "Additional features".





Press "F3" scroll to "Miscellaneous".

Press "F4" to select "Miscellaneous".



Press "F3" scroll to "Miscellaneous 1".

Press "F4" to select "Miscellaneous 1".





Default Setting

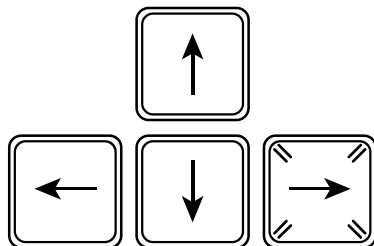
Press "F3" scroll to select "Skip runout."





To Allow Runout Measuring:

Use right arrow key on the keyboard to select "N" on the screen.



Press "F1" to save and return to prior screen.

Continuing to press "F1" will cycle through previous screens returning you to the home screen.

NOTES:



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