

# JohnBean®

## WHEEL SERVICE EQUIPMENT

### Wheel Aligner Routine Maintenance Manual



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innovators of 3D Technology

Continue to maintain  
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# 3D X-Cel Wheel Aligner

... a generation ahead.



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**Snap-on Equipment**

**JohnBean**

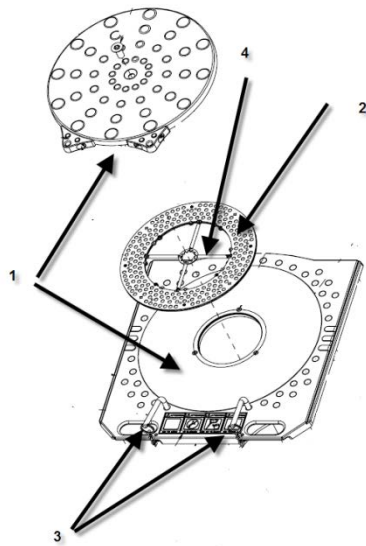
**BEE**  
CONTRIBUTOR



## WHEEL ALIGNER ROUTINE MAINTENANCE

### TURNTABLES

1. At least once a month the front turntables should be stripped and cleaned. All dust, dirt etc should be removed and all surfaces (1) balls (2) and springs (4) inspected for damage. Replace any damaged balls (2) or surfaces (1) where necessary. Avoid using greases and oils as this mixes with the dirt and causes increased wear.

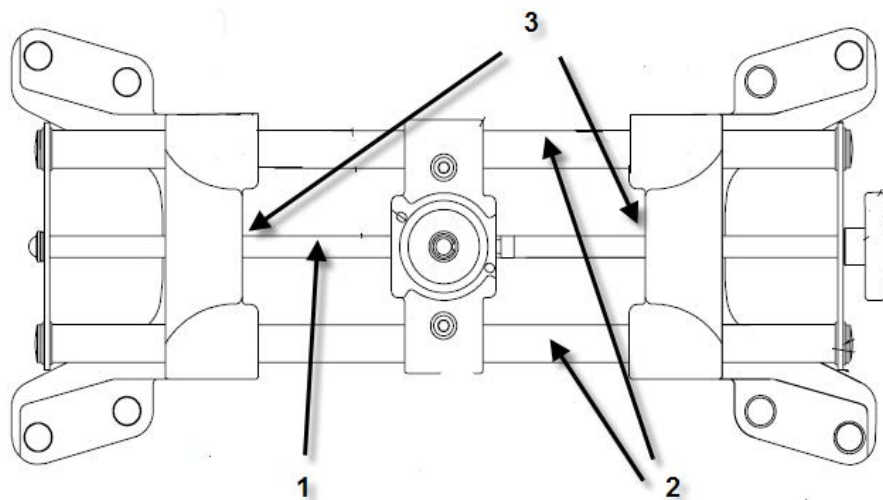


2. Once the turntables have been reassembled, they should be checked for movement. The turntables should freely move forwards, backwards, sideways and rotate clockwise and anticlockwise without sticking or binding.
3. It is important to ensure the locking pins (3) are present and serviceable. The turntables should be locked prior to a vehicle stopping on them. Once alignment is finished, the vehicle should be pushed off the turntables and the turn tables locked prior to driving the vehicle off the alignment surface.

## SLIP PLATES

1. At least once a month, the slip plate surfaces should be removed and the area underneath them thoroughly cleaned.
2. Inspect the bearing on the plate surface to ensure they are not damaged and rotate freely. Replace any damaged bearings.
3. Inspect the guide pins and springs on the Slip plate surface. Ensure the pins move freely with the springs returning the guide pins to their original position. Repair or replace any damaged items where necessary.
4. Assemble the slip plate surfaces and test for Free movement. The slip plates should move left and right and slightly sideways when pushed. They should return to the centre position when released.

## WHEEL CLAMPS

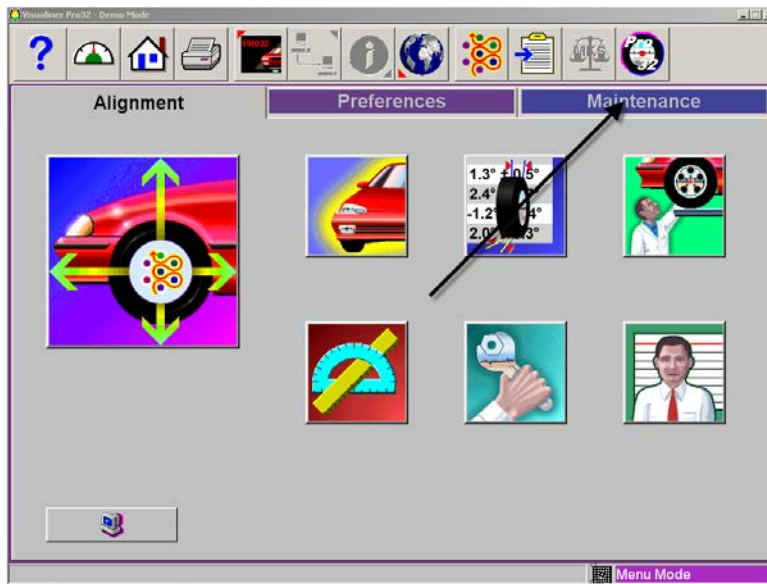


1. Wheel clamps should be checked at least once a month.
2. Clean the screw threads (1) and lightly lubricate the screw threads with a light machine oil.
3. Keep the slide rods (2) clean and do not lubricate.
4. Lightly lubricate the wedge-grip “O-rings” as needed with a light machine oil.
5. Keep all clamp surfaces clean and free of grit and dirt.
6. Keep the target surface clean and free of grit.
7. Check and tighten if necessary the bush retainer screws (3)

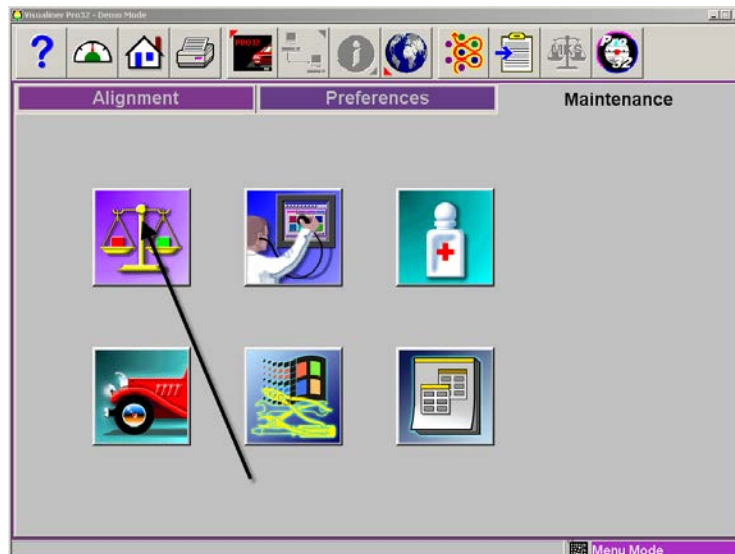


**TARGET IDENTIFICATION (TID)**

1. Target identification (TID) should be performed at least once a month. If the target has been dropped or fallen on the floor then TID on “THAT” target needs to be performed. In addition, if you feel that the readings are incorrect or you are getting clear vision problems, then a TID should be performed as well as Turn Table and Slip plate inspections.
2. To perform TID you need to put a car on the measuring surface and attach all the wheel clamps. The car does not need to have been aligned first.
3. Go to the main menu and select “MAINTENANCE”

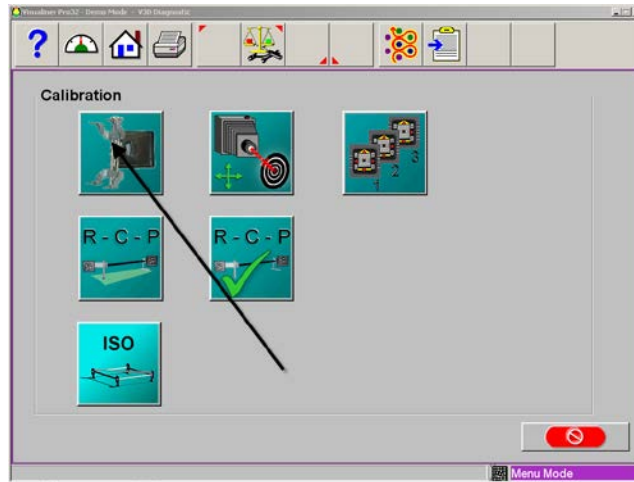


4. Next select “CALIBRATION”

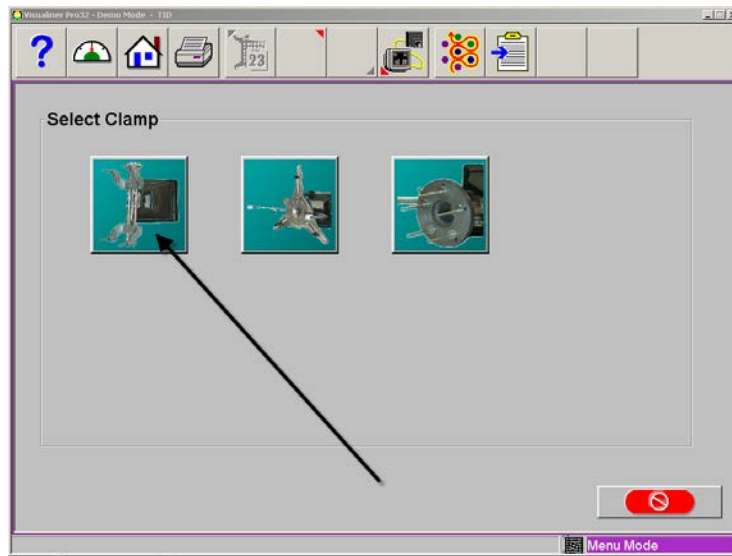




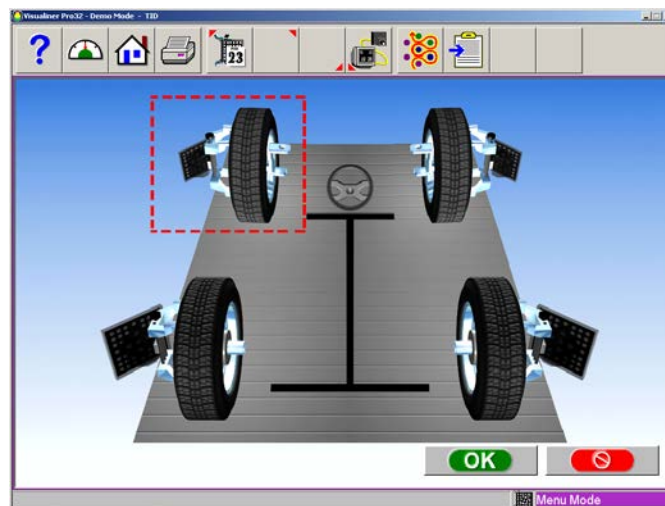
5. Next select “TID”



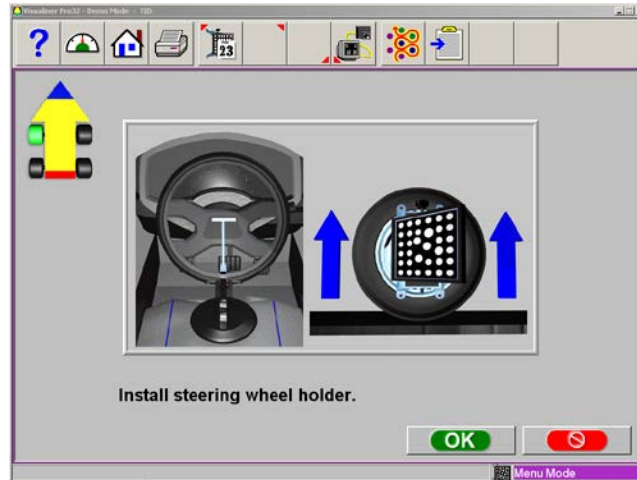
6. Then depending on software version, select “WHEEL CLAMP TYPE”



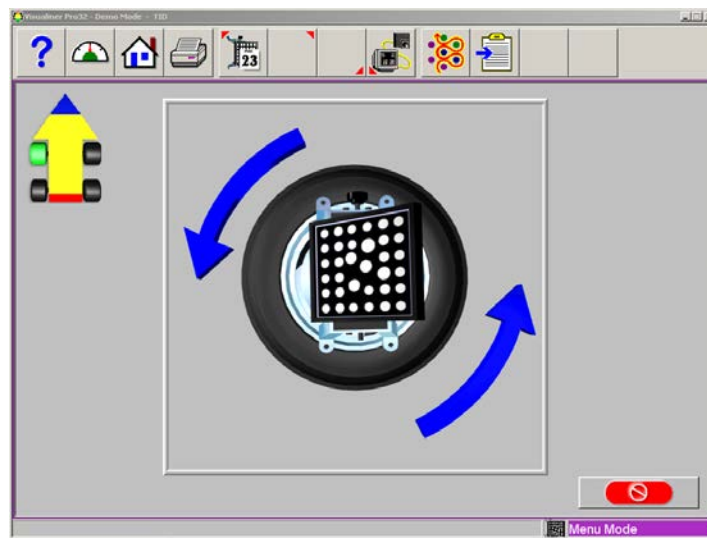
7. Next select any wheel to start with.



8. Follow the on screen instructions to **“install the steering wheel holder”** and raise the wheel to be calibrated



9. Roll the wheel in the directions as indicated on the screen



10. Once completed, select each wheel in turn till all four wheels are completed. Once completed, the aligner needs to be closed down completely and then restarted.
11. If you need to do TID on only one target (eg. It has been dropped) then you only need to put that target on the car, select that target only and follow the on screen instructions.



## **ALIGNER BASIC FAULT FINDING PROCEDURES**

### **MONITOR PROBLEMS**

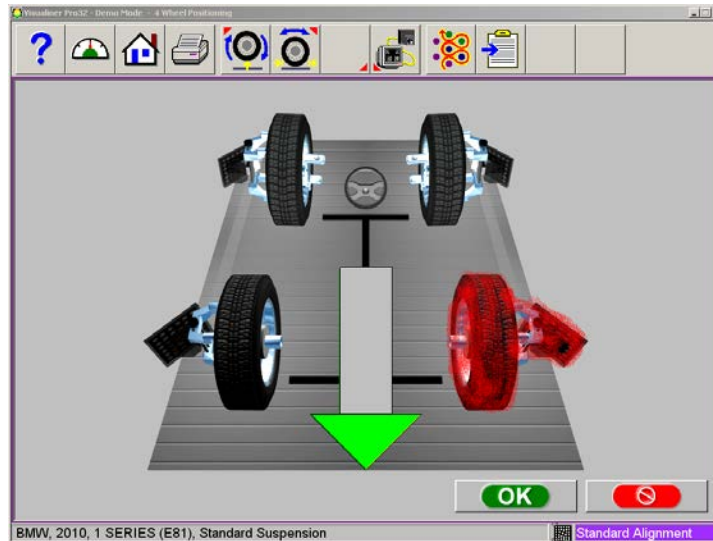
1. If the Monitor is not coming on (no led light on the monitor) use the following procedure:
  - A) Check the “ON” “OFF” button is selected “ON”.
  - B) Is the power supply to the monitor switched on”. If it is plugged into the wall and switched “ON”, check that the wall socket is working by plugging something in the wall socket that you know works. If the wall socket is not working check the circuit breaker on the distribution board or call an Electrician. If the wall socket is working and the monitor is still not coming “ON”, swop the power cord with another machine and see if the monitor now works. If the monitor is still not working, call the help line (0861-762-763).
  - C) If the monitor is plugged into the aligner and the computer and printer are working (lights on), then check the connection to the power distribution sockets in the aligner.
  - D) If the monitor is powered on but no picture is seen (the small LED on the front of the monitor will show “ORANGE” not “GREEN or BLUE”). The problem is no signal from the computer. Switch off the aligner and check the connection to the back of the computer. Once checked, switch back on the aligner and see if the problem goes away. If problem persists, call the help line (0861-762-763).
  - E) If the “GREEN” led is on but no picture is seen, check the settings of the monitor such as brightness, Contrast etc. to see if this has been altered. If problem persists, call the help line (0861-762-763).

### **COMPUTER PROBLEMS**

1. If the computer light does not come on, check the wall socket as in (B) above. If there is power to the computer and it does not switch on, call the help line (0861-762-763).
2. If the computer turns on and comes up with an error message on the screen, call the help line on 0861-762-762 and describe the error message.

**CAMERA PROBLEMS**

1. Should you be operating the Aligner and the camera view blocked image comes up as shown below, proceed as follows:



- A) Check to see that nothing is blocking the camera view such as a person standing in the way, a door left open.
- B) Clean the target indicated and see if the problem persists
- C) If the problem persists, swop the target & wheel clamp with another one from another aligner. If the problem goes away, the problem is most likely the Target. Put the targets and wheel clamps back on the original Aligners. Report the problem to the help line (0861-762-763)

General Enquiries: 082 551 5388

Technical Helpline: 0861 762 763



**WHEEL SERVICE EQUIPMENT**



Equipment Supplier of the year  
2009 & 2010

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