



« Unique "ALIGN+" Software »

**Model : FOX 3D Auto BoomX**

**Model : FOX 3D Auto BoomX Smart Mobile**



Automatic camera beam movement synchronized with movement of the vehicle on the lift by using compensation program. All measurements can be done at floor level and adjustments at any convenient height. Provision for manual height adjustment also available.

Automatic camera beam movement synchronized with movement of the vehicle on the lift. Can be moved between bays to use in different alignment lifts.

**Model : FOX 3D MBX**

**Model : FOX 3D VHX**



This model is designed to suit lift based (Two Post Lift, Four Post Lift & Scissor Lift) wheel alignment. The camera beam can be raised/lowered manually to the required height using handle provided in the beam saddle.

Designed to perform alignment on Scissor lift, Four Post Lift and Pit. Horizontal beam with camera can be fixed at desired height.

## Model : FOX 3D - DTX



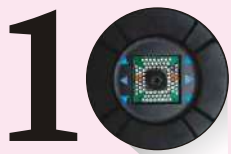
Dual Tower model consists 2 vertical columns fitted with cameras. Ideal for space constraint workshops giving access for free movement in shop floor without any obstruction. No horizontal beam.

## Unique "ALIGN+" Software

## Model : FOX 3D PTX



Designed to perform Alignment on pit.



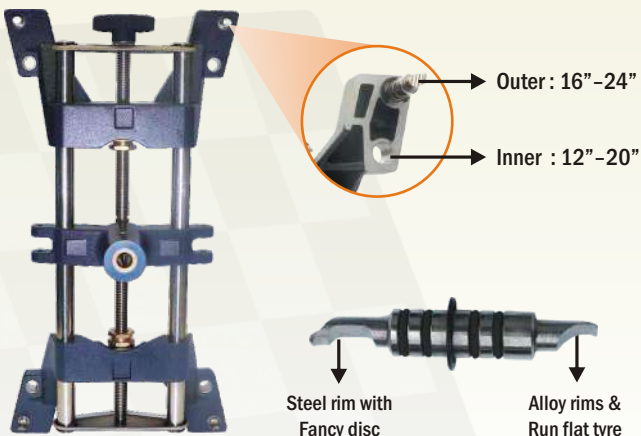
## 10 Mega Pixel Camera

Data acquisition using high resolution scientific imaging cameras



## Universal Wheel Bracket

Suitable for 12" - 24" rim diameter



## [ SMART CONTROL - Optional ]

### Tablet



Highly user-friendly Wi-Fi enabled tablet device to display alignment results and to operate the PC from the Alignment bay (Max 10 meters).

## SIMPLE 4 STEP ALIGNMENT : SAVES TIME



**01** Pre-Alignment Inspection



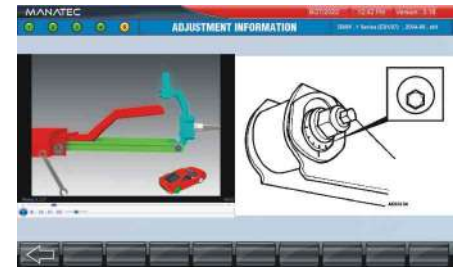
**02** Push - Pull Runout



**03** Turn Left / Right



**04** Alignment Results



**Animation guidance**  
(optional features available in Autodata)



**Live readings to adjust**

## Quick Align Program



Unique OEM wizard program helps in saving technician time and increases alignment center productivity through customization of the screens himself by selecting and skipping routine inspection screens, attention screens, Caster swing etc.,

## Features Menu



Useful features like vehicle information modification, multi users function, vehicle data updates, unit conversion etc. are available.

## Data Manager



Data Manager software to retrieve alignment history by month, year and registration number. Useful tool for workshop managers.

## Lift level compensation



This feature will overcome the error in readings due to level unevenness during elevation in a scissor or 4-post wheel alignment lift thus ensures Caster, Camber angles are not affected.

## Salient Features

- Vision based 3D Imaging technology using 2 High Performance SI (Scientific Image) Cameras
- Simultaneous Front and Rear wheel alignment (4x4)
- Push Pull Runout / Setback / Thrust angle compensation
- Lift level compensation at adjustment level
- Unlimited memory for vehicle specifications
- Option for selection of vehicle specification during alignment
- Power failure data protection
- Multi-lingual program & Voice prompt in English
- Automatic tracking of Left & Right turns for Caster/Kingpin measurements
- Adjustment of Camber in wheel Jacked-up position & Toe curve measurement
- Rear Setback & Track width difference,
- Toe adjustment in single Tie rod vehicle, Vehicle geometry measurements
- Effortless Toe (Easy Toe) adjustment program / Drag link adjustment
- Camber measurement at Zero Toe
- Toe out on Turns & Lock angle measurements
- Animated pictorial display of angles during alignment
- Zoom in option for live parameters - like Camber, Caster & Toe
- Two color bar display for adjustment of all angles
- Option for Quick Wheel Alignment program
- Data Manager Software for storing & retrieving alignment results
- Customer Address in printout & customer data edit option
- Two wheel Alignment program by fixing only front two target plates

## Technical Specifications

Measurement parameters	Range	Accuracy
Camber (Front / Rear)	± 15° 00'	± 00° 02'
Caster	± 28° 00'	± 00° 05'
Kingpin Inclination	± 25° 00'	± 00° 05'
Toe (Front / Rear)	± 20° 00'	± 00° 02'
Total Toe	± 40° 00'	± 00° 04'
Toe Out on Turns	± 20° 00'	± 00° 02'
Setback (Front / Rear)	± 25 mm	± 2 mm
Thrust angle	± 05° 00'	± 00° 02'
Runout	± 10° 00'	± 00° 02'
Included angle	± 40° 00'	± 00° 05'
Track width difference	± 300 mm	± 5 mm
Power supply	230V AC, 50Hz / 110V AC, 60Hz	
Power consumption	200W (without Printer)	
Power consumption for Autoboom	400W (without Printer)	
Operating temperature	0° - 50°C	

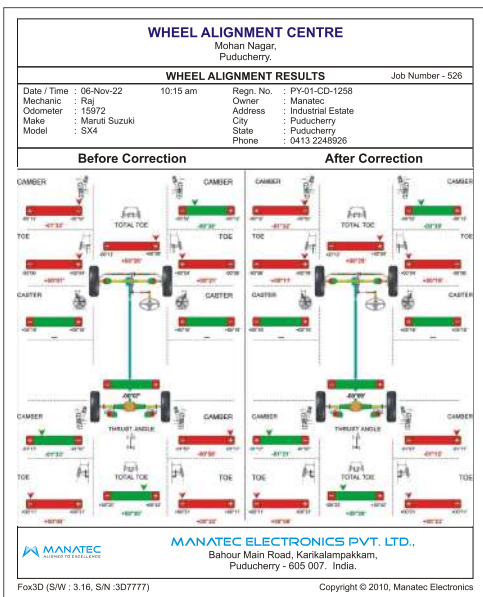
## Standard Accessories

 Target Plates - 4 Nos.	 Wheel brackets (12" - 24") - 4 Nos.	 Rotary Plates - (2 ton) - 2 Nos.	 Steering Lock - 1 No.
 Brake Pedal Lock - - 1 No.	 Wheel stoppers - 2 Nos.	 PC with LED Monitor, Keyboard & Mouse	 Align+ & Data Manager Software

## Optional Accessories

 Printer (Inkjet or Laser)-1 No.	 Long Rear wheel sliders - 2 Nos.	 Wheel Bracket adapters (10"-26") - 16 Nos.	 Rim locking pin - 16 Nos.
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## Graphical Printout



## Text Printout

**WHEEL ALIGNMENT CENTRE**  
Mohan Nagar, Pudukchery.

**WHEEL ALIGNMENT RESULTS** Job Number - 526

Date / Time : 06-Nov-22 10:15 am Regn. No. : PY-01-CD-1258  
 Mechanic : Raj Owner : Manatec  
 Odometer : 15972 Address : Industrial Estate  
 Make : Maruti Suzuki City : Pudukchery  
 Model : SX4 State : Pudukchery  
 Phone : 0413 2248926

DB : India (2014-1)		Specification			After correction	
		Before correction	Min	Target		Max
<b>FRONT WHEEL ALIGNMENT RESULTS</b>						
CAMBER	Left	+01°30'	+00°02'	+00°32'	+01°02'	+00°04'
	Right	-00°30'	+00°02'	+00°32'	+01°02'	+00°05'
	Max diff. Left/Right	+02°20'	+00°30'	+00°30'	+00°00'	-00°01'
KINGPIN	Left	+12°30'	+12°15'	+12°45'	+13°15'	+12°45'
	Right	+11°00'	+12°15'	+12°45'	+13°15'	+13°00'
	Max diff. Left/Right	+01°30'	+00°30'	+00°30'	+00°00'	+00°15'
INCLUDED ANGLE	Left	+00°00'	+13°17'	+13°17'	+13°17'	+10°44'
	Right	+00°00'	+13°17'	+13°17'	+13°17'	+10°35'
	Max diff. Left/Right	+00°00'	---	---	---	0mm
CASTER	Left	+03°30'	+01°59'	+02°29'	+02°59'	+02°30'
	Right	+01°20'	+01°59'	+02°29'	+02°59'	+02°00'
	Max diff. Left/Right	+02°10'	+00°30'	+00°30'	+00°30'	+00°09'
SETBACK		0mm	---	---	---	0mm
TOE	Left	+00°30'	-00°20'	+00°42'	+01°44'	+00°01'
	Right	+00°00'	-00°20'	+00°42'	+01°44'	+00°08'
	Max diff. Left/Right	+00°30'	-00°40'	+01°22'	+01°44'	+00°07'
TOTAL TOE		+00°30'	-00°40'	+01°22'	+03°28'	+00°08'
<b>REAR WHEEL ALIGNMENT RESULTS</b>						
CAMBER	Left	+00°00'	-00°30'	+00°00'	+00°30'	+00°20'
	Right	+00°00'	-00°30'	+00°00'	+00°30'	+00°20'
	Max diff. Left/Right	+00°00'	-00°00'	+00°00'	+00°00'	+00°00'
THRUST ANGLE		-00°30'	---	---	---	+00°08'
TOE	Left	-00°30'	-01°02'	+00°00'	+01°02'	+00°01'
	Right	-00°30'	-01°02'	+00°00'	+01°02'	+00°07'
	Max diff. Left/Right	-00°00'	-00°00'	+00°00'	+00°00'	+00°06'
TOTAL TOE		+01°00'	-02°04'	+00°00'	+02°04'	+00°08'
SETBACK		0mm	---	---	---	0mm

MANATEC ELECTRONICS PVT. LTD.,  
Bahour Main Road, Kankalampakkam, Pudukchery - 605 007, India.

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## Pre-Alignment Inspection Report

**WHEEL ALIGNMENT CENTRE**  
Mohan Nagar, Pudukchery.

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 Phone : 0413 2248926

Item	Pre - Alignment Inspection			
	Comments	Check	Service	Replace
Tire Pressure		Yes	No	No
Wheel Bearings		Yes	No	No
Wheel Damper		Yes	No	No
Steering Damper		No	Yes	No
Steering Gear/Coupler		No	Yes	No
Rack And Pinion		No	Yes	No
Ball Joints		No	Yes	No
Spring/Torsion Bar		No	Yes	No
Shock/Strut		No	No	Yes
Idler Arm		No	No	Yes
Pitman Arm		No	No	Yes
Center Link		No	Yes	Yes
Control Arm/Bushings		No	No	No
Strut Rod/Bushings		No	No	No
Tie Rod Ends		Yes	No	No
Tie Rod Adjusting Sleeve		Yes	No	No
Stabilizer Bushings		Yes	No	No
Spring Shackle Bushings		Yes	No	No
Wheels/Fasteners		No	Yes	No
Spring Shackle Bushings		No	Yes	No
Spring Shackle Bushings		No	No	Yes

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