CE EAC

MANATEC
ALIGNED TO EXCELLENCE

Vision Based 3D Wheel Aligner

FOX 3D
VISION BASED WHEEL ALIGNMENT

« Unique "ALIGN+" Software »

Model : FOX 3D Auto BoomX Smart Mobile

Automatic camera beam movement synchronized with movement of the vehicle on the lift. Can be moved between bays to use in different alignment lifts. Provision for manual height adjustment also available.

Model : FOX 3D Auto BoomX

OPTIONAL

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.

Model : FOX 3D MBX

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.

Model : FOX 3D VHX

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 PTX

Designed to perform Alignment on pit.

NEO 3D Wheel Aligner

FOX 3D
VISION BASED WHEEL ALIGNMENT

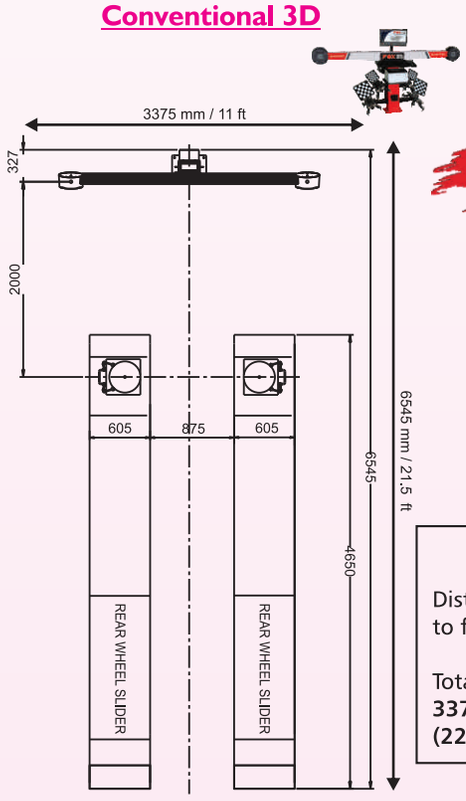
Model : NEO 3D

NEO 3D comes with compact camera pods fitted on the floor at a distance of 1125 mm from the centre of Rotary plates. This set up gives free space of 3375x902 mm (32.7 sq.ft)

Indigenous design that eliminates the horizontal beam in traditional 3D aligners and reduces minimum mandatory distance between cameras and targets.

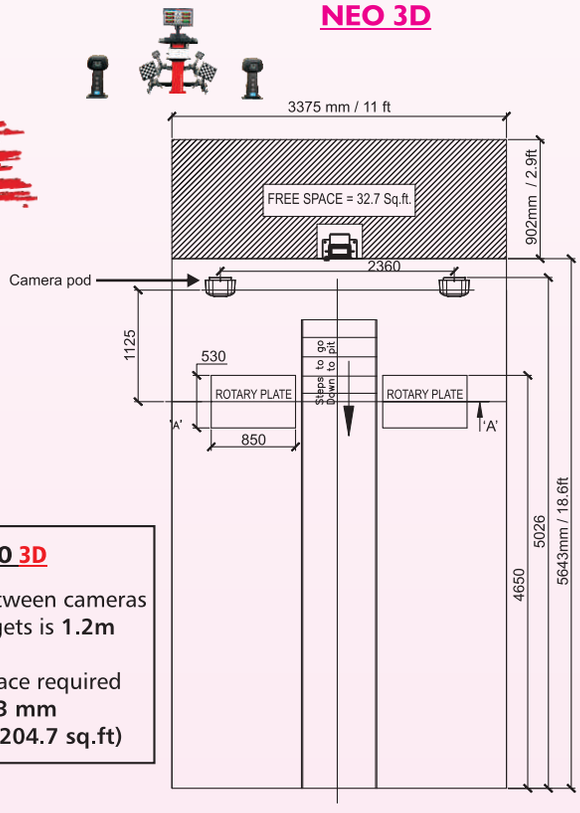
With only 2 cameras it measures all alignment parameters in just 3 mins!

Conventional 3D



SPACE SAVER

NEO 3D

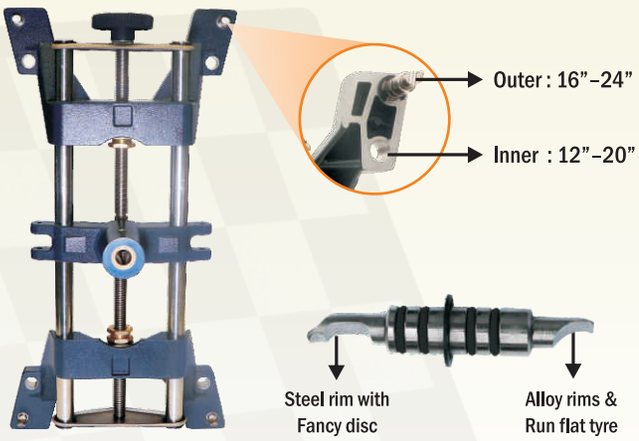


SPACE SAVER

Conventional 3D	NEO 3D
Distance between cameras to front targets is **2m**	Distance between cameras to front targets is **1.2m**
Total bay space required **3375 x 6545 mm (22 sq.mt / 237 sq.ft)**	Total bay space required **3375 x 5643 mm (19 sq.mt / 204.7 sq.ft)**

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).

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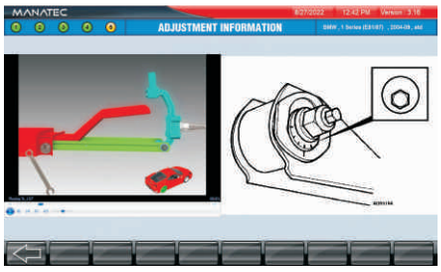
SIMPLE 4 STEP ALIGNMENT : SAVES TIME

01 **Pre-Alignment Inspection**

02 **Push - Pull Runout**

03 **Turn Left / Right**

04 **Alignment Results**



Animation guidance
(optional features availabale 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.,

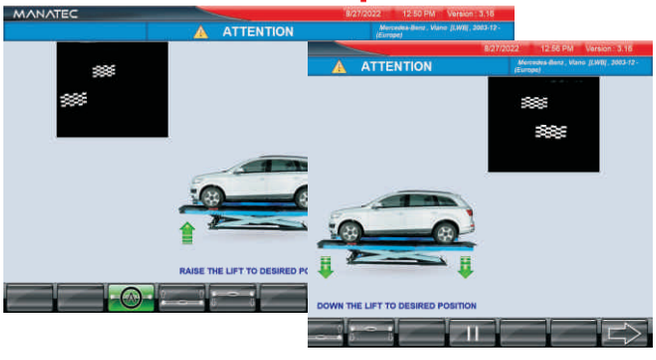
Features Menu

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.

Vision Based 3D Wheel Aligner

FOX 3D
VISION BASED WHEEL ALIGNMENT

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
- Wheel off Camber adjustment
- 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 in full screen
- Two color bar display for adjustment of all angles to indicate within or out of specification
- 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

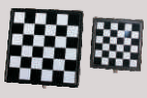
** Not Applicable for NEO 3D*

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	

** Not Applicable for NEO 3D*

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

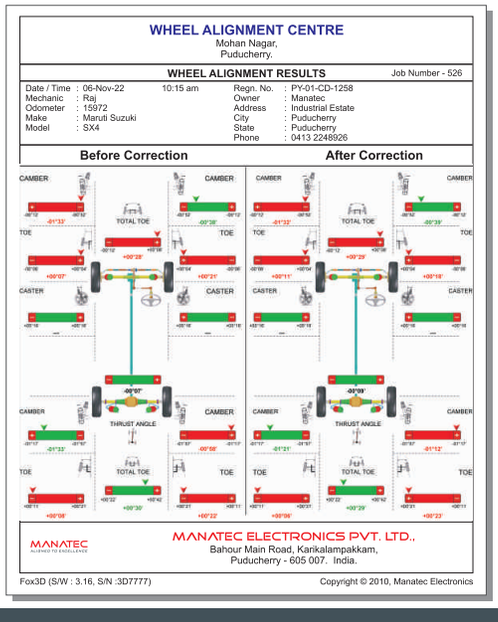

Printer (Inkjet or Laser)–1 No.


Long Rear wheel sliders – 2 Nos.


Wheel Bracket adapters (10"-26") – 16 Nos.

Rim locking pin – 16 Nos.

Graphical Printout



WHEEL ALIGNMENT CENTRE
Mohan Nagar,
Puducherry.

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	: Puducherry	
Model	: SX4		State	: Puducherry	
			Phone	: 0413 2248926	

Before Correction — After Correction

MANATEC ELECTRONICS PVT. LTD.,
Bahour Main Road, Karikalampakkam,
Puducherry - 605 007. India.

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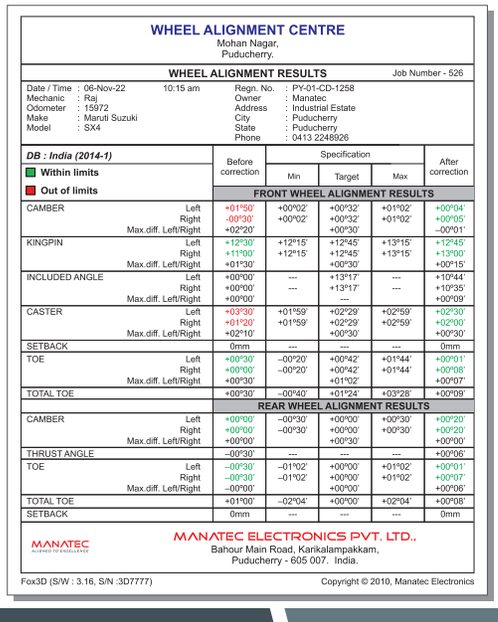
Text Printout



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Model	: SX4		State	: Puducherry	
			Phone	: 0413 2248926	

DB : India (2014-1) — Within limits — Out of limits

		Before correction	Specification Min	Target	Max	After correction
FRONT WHEEL ALIGNMENT RESULTS						
CAMBER	Left	+01°50'	+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°01'
KINGPIN	Left	+12°00'	+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°15'
INCLUDED ANGLE	Left	+00°00'	---	+13°17'	---	+10°44'
	Right	+00°00'	---	+13°17'	---	+10°35'
	Max.diff. Left/Right	+00°00'		---		+00°09'
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'
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'		+01°02'		+00°07'
TOTAL TOE		+00°30'	--00°40'	+01°24'	+03°28'	+00°09'
REAR WHEEL ALIGNMENT RESULTS						
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°30'		+00°00'
THRUST ANGLE		--00°00'	---	---	---	+00°06'
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°06'
TOTAL TOE		+01°00'	--02°04'	+00°00'	+02°04'	+00°08'
SETBACK		0mm	---	---	---	0mm

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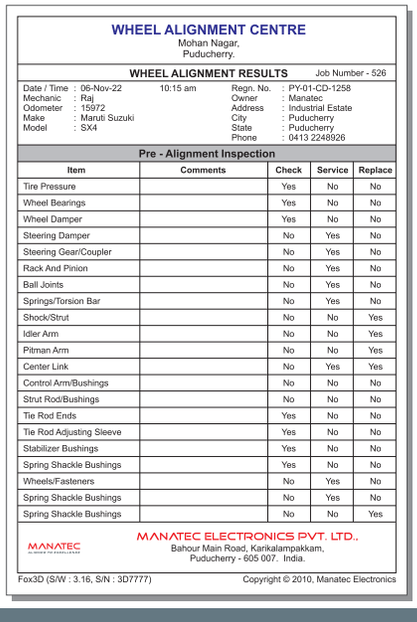
Pre-Alignment Inspection Report



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Pre - Alignment Inspection

Item	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
Springs/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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