



CCD Wheel Aligner

















Push - Pull Runout compensation

RF TECHNOLOGY

Manatec RF wheel aligners are known for it's measurement accuracy, user friendly software and its ability to perform quick wheel alignment thereby generating higher returns to customer. Its affordability and easy serviceability due to optimized design makes these aligners to be the most preferred.



Fully loaded Premium Aligner with 8 CCD cameras & 6 Inclinometers, LED Monitor, mobile cabinet with PC & printer and space for accommodating tools.



Economy Aligner with 6 CCD cameras & 6 Inclinometers, LED Monitor, mobile cabinet with PC & printer.



SAVE ALIGNMENT TIME - INCREASE REVENUE



Push - Pull Runout

Runout of all four wheels are measured in a single Push-Pull without jacking up the vehicle. Results in 5 minutes saving of alignment time.



Quick alignment program

Unique quick alignment procedure to reduce alignment time by skipping through some screens. Significant savings in valuable alignment time.



Adjustment of Camber in Jacked up condition

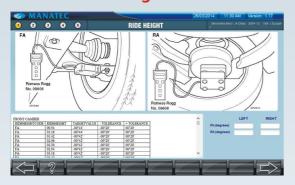
Special software for adjusting the camber in jacked up condition. Operator can easily access the adjustment points and tighten or loosen the bolts. Significant savings in valuable alignment time.

1030/AV Wester 1.17 ARMS HORIZONTAL ## 100°001 ## 100°001 ## 100°001 ## 100°003

Spoiler Program

Unique spoiler program to perform alignment on low body vehicles upto 3° 30' (31mm) tilt. Sensor heads can further be lowered by the center block of wheel bracket low chassis vehicles.

Ride height condition



Special input screen for feeding Ride height specifications, which is critical for specific vehicles like Mercedes Benz.

Pre-loading condition



Exclusive screen for entering data on pre-alignment set up and pre-loading position, for specific vehicles like BMW.

Unternational vehicle data base with more than 20000 vehicle data including A merican, a sian & merican, Japanese, Australian, Asian & Middle East data. User can also add, modify & delete data.

Technical Specifications

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Measurement parameters	Range	Accuracy				
Camber (Front / Rear)	± 10° 00'	± 00° 02'				
Caster	± 20° 00'	± 00° 05'				
Kingpin Inclination	± 20° 00'	± 00° 05'				
Toe (Front / Rear)	± 05° 00'	± 00° 02'				
Total Toe	± 10° 00'	± 00° 04'				
Setback (Front)	± 05° 00'	± 00° 02'				
Thrust angle	± 05° 00'	± 00° 02'				
Runout (Front / Rear)	± 10° 00'	± 00° 02'				
Included angle	± 30° 00'	± 00° 05'				
Setback (Rear) #	± 05° 00'	± 00° 02'				
Track width difference #	± 02° 00'	± 00° 04'				
Lock angle (Optional)	± 60° 00'	± 00° 20'				
Toe Out on Turns (Optional)	± 60° 00'	± 00° 20'				
Power supply	230V AC, 50Hz	230V AC, 50Hz.				
Power	200W					
Sensor arm Battery	6V, 7AH					
Operating temperature	0° - 50°C					
Battery backup time	> 12 hours					

Feature not available in (6x6) models.



2 Color Bar Code

Live correction mode helps the operator to correct the alignment with easy 2 color bar code identification. (ie. within limits or out of limits).



Animated Graphics

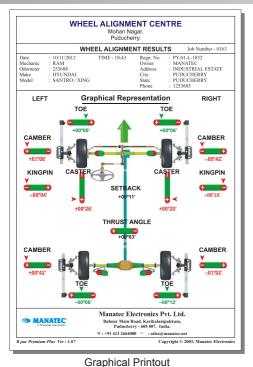
User friendly step by step alignment instructions are given by animated 3D graphics.



Alignment Results

Alignment Results in Single Screen

MULTIPLE PRINT FORMATS



		GNME ohan Nag Puduchern	ar,	NTRE		
	WHEEL AL	IGNMEN	T RESU	LTS	Job Numb	er - 0163
Date : 10/11 Mechanic : RAM Odometer : 2536 Make : HYU Model : SAN	1 88	10:43	Regn. No. Owner Address City State Phone	: PUDU : PUDU : 12536	ATEC STRIAL ES CHERRY CHERRY 85	STATE
Within limits		Before	Specification		After	
		correction	Min	Target	Max	correction
Out of limits	FRON	FRONT WHEEL ALIGNMENT RESULTS				
CAMBER	Left Right Max.diff. Left/Right	+01°06' -00°46' 01°52'	+00°02' +00°02'	+00°32' +00°32' 00°30'	+01°02' +01°02'	+01°08' -00°42' 01°50'
KINGPIN	Left Right Max.diff. Left/Right	-00°04' -00°10' 00°06'	+12°15' +12°15'	+12°45' +12°45' 00°30'	+13°15' +13°15'	-00°04' -00°10' 00°06'
INCLUDED ANGLE	Left Right Max.diff, Left/Right	+01°02° -00°56° 01°58°		+13°17' +13°17' 		+01°04' -00°52' 01°56'
CASTER	Left Right Max.diff. Left/Right	+00°28' +00°18' 00°10'	+01°59° +01°59°	+02°29' +02°29' 00°30'	+02°59' +02°59'	+00°26' +00°20' 00°06'
SETBACK		+00°11'				+00°11'
TOE	Left Right Max.diff. Left/Right	+00°06' +00°06'	-00°20' -00°20'	+00°42' +00°42' 01°02'	+01°44' +01°44'	+00,00, +00,00,
TOTAL TOE		+00°06°	-00°40'	+01°24'	+03°28'	+00°06°
		REAR	WHEEL	ALIGNM	ENT RE	SULTS
CAMBER	Left Right Max.diff. Left/Right	+00°42' -00°56' 01°38'	-00°30' -00°30'	+00°00' +00°30'	+00°30° +00°30°	+00°42' -01°02' 01°44'
THRUST ANGLE		+00°04'				+00°03°
TOE	Left Right Max.diff. Left/Right	-00°04' -00°14' 00°10'	-01°02' -01°02'	+00°00' +00°00' 01°02'	+01°02' +01°02'	-00°06' -00°12' 00°06'
TOTAL TOE	Left	-00°18'	-02°04'	+00000	+02°04'	-00°18'
MANATE in Feelmongs atms of m	C° Baho	-00°09' atec Elec our Main Ros Puducherry	d, Karikala - 605 007. I	mpakkam, ndia.		-00°08'
v : +91 413 2664000 = : sales@manatec.net Pac Premium Plus Ver : 1.07 Copyright © 2003, Manatec Electronic						

WHEEL ALIGNMENT CENTRE Mohan Nagar, Puducherry.									
W	HEEL ALIGNMEN	IT RESU	LTS	Job Numl	ber - 0163				
Date : 10/11/2012 Mechanic : RAM Odometer : 253688 Make : HYUNDAI Model : SANTRO / XIN	TIME : 10:43	Regn. No Owner Address City State Phone	b.: PY-01-L-1832 : MANATEC : INDUSTRIAL ESTATE : PUDUCHERRY : PUDUCHERRY : 1253685		STATE				
	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				
Manatec Electronics Pvt. Ltd. Bahour Main Road, Karikalampakkam, Pudacherry - 68 007. India. 2:49 413 26400 3: sales@manatec.net									
R pac Premium Plus Ver : 1.07			opyright © :	2003, Manate	e Electroni				

Text Printout

Pre-Alignment Inspection Report

Compact Measuring Heads



Light & sleek measuring heads with remote control membrane key pad eliminates frequent movement of operator between vehicle and the machine. CMOS components used in the design to reduce power consumption.

Standard Accessories

- 4 Nos. of Wheel bracket (12" 24")
- 2 Nos. of Rotary Plate LCV (2 ton)
- 1 No. Steering Lock
- 1 No. Brake Pedal Lock LCV
- 1 No. PC with LED Monitor, Keyboard & Mouse
- 1 No. Wheel Alignment & Data Manager Software



Optional Accessories

- 1 No. Printer (Inkjet / Laser)
- 2 Nos. of Multimedia Speaker
- 2 Nos. of Electronic Rotary Plate (2 Ton)
- 2 Nos. of Short Rear wheel slider
- 2 Nos. of Long Rear wheel slider
- 4 Nos. of Sensor arm cable
- 2 Nos. of Wheel stopper
- 16 Nos. Fancy disc Rim locking pin



Wheel Alignment Scissor Lift

Model: ME - WASL C45 4.5 Ton



- One number of wheel free jack as standard supply
- Large platform scissor lift

Model: ME - WASL D45 4.5 Ton



- Double-level platform scissor lift
- Adjustable second-lifting platform length



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