

EVERET

ALL FOR AUTO

ITEM NO:EE-3828

USER MANUAL



**FOLLOW THE INSTRUCTIONS
CAREFULLY TO GRANT THE
MACHINE A CORRECT
FUNCTION AND LONG
SERVICE LIFE.**

**KEEP THE MANUAL NEAR THE
MACHINE ALL TIME AND MAKE
SURE ALL USERS HAVE READ
THIS.**

EAE Automotive Equipment Company Limited

The manufacturer keeps the rights to improve the contents in this manual.

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Warning

- This manual is a necessary part of the product. Please read carefully.
- Keep the manual for later use when maintaining the machine.
- This machine can only be used for the designated purposes. Never use it for any other purpose.
- The manufacturer is not responsible for the damage incurred by improper use or use other than the intended purpose.

Precaution

- The equipment can only be operated by qualified personnel with special training. Modification to any components or parts, or use the machine for other purpose without either obtaining the agreement from the producer, or observing the requirement of the instructions may lead to direct or indirect damage to the equipment.
 - ★ The equipment should be installed on the stable ground, not wooden pallet, otherwise not accurate.
- Keep the back panel 0.6M away from the wall for good ventilation. Enough room should be left on both sides for convenient operation.
- Do not put the equipment a place with high temperature or moisture, or near the heating system, water tap, air-humidifier or chimney.
- Avoid lots of dust, ammonia, alcohol, thinner or spraying binder.
- People who are not operating the machines should be kept away when it is used.
- Use appropriate equipment and tools, protective and safety equipment, including eyeglasses, earplugs and working boots.
- Pay special attention to the marks on the machine.
- Do not touch or approach the moving parts by hand during operating.
- Do not remove the safety device or keep it from working properly.

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1. General

1.1. Technical data:

- Max wheel weight: 65kg
- Power: 0.2kw;
- Power supply: 220v;230v;240v;110v;50hz;60hz
- Balancing accuracy: $\pm 1g$
- 9 balancing modes: DYN, ALU1, ALU2, ALU 3, ALU 4, ALU5, ALUS1,ALUS2, ST
- Balancing speed: 200r/min
- Cycle time: 8s
- Rim diameter: 10 " ~24 " (256mm~610mm)
- Sound pressure level during work cycle: <70db

1.2. Features:

- Distance and diameter value input automatically
- Laser helped 9 o'clock position indication under ALU-S mode
- Statistic and dynamic balancing, ALU-programs for alloy rims or special shaped
- Self diagnoses, easy to find the problem
- Apply to steel and aluminum alloy rim

1.3. Working environment:

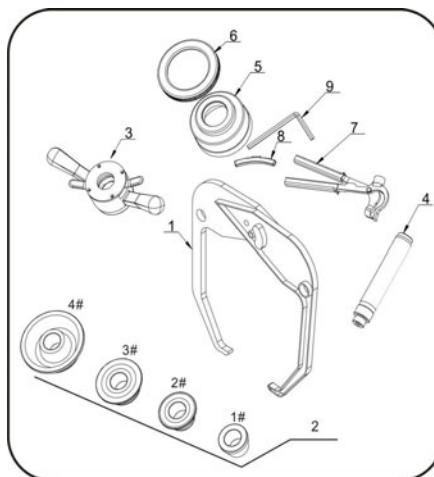
- Temperature: 5~50°C
- Height: $\leq 4000m$

2. Machine assembly

2.1. Unpack

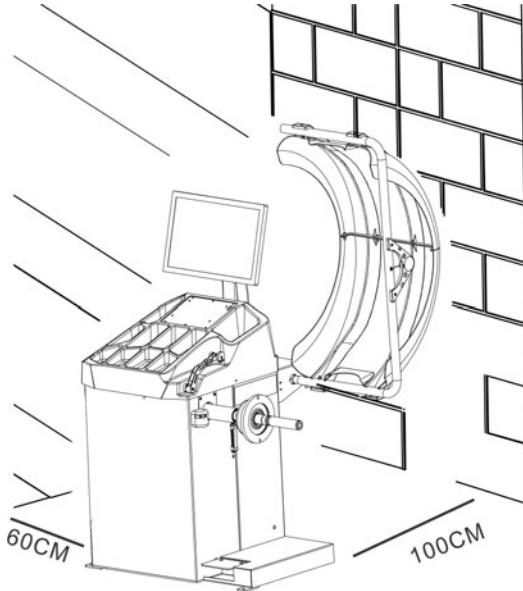
Unpack the carton, check if missing any spare parts.

No.	Item	Qty
1	Width gauge	1
2	Conic No.1	1
	Conic No.2	1
	Conic No.3	1
	Conic No.4	1
3	Quick release nut	1
4	Thread hub	1
5	Bowl for quick nut	1
6	Pad for bowl	1
7	Balancing hammer	1
8	100g weight	1
9	Allen wrench	1



2.2. Install

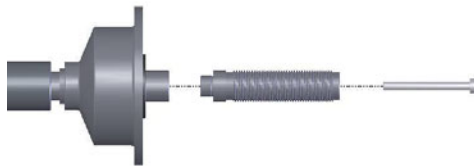
-
- The equipment should be installed on the stable ground, not wooden pallet, otherwise not accurate.
 - Keep the back panel 0.6M away from the wall for good ventilation. Enough room should be left on both sides for convenient operation.



2.3. Fix balancer to floor with screws on the bottom.

2.4. Install adaptor

The wheel balancer is supplied complete with cone type adaptor for fastening wheel with central bore. (see below picture)



2.5. Install wheel

Clean wheel, take off counterweights, check pressure of wheel.
Choose the way of installation according to the type of wheel.



Main shaft-wheel—
suitable cone(small head towards inside)—quick handle nut

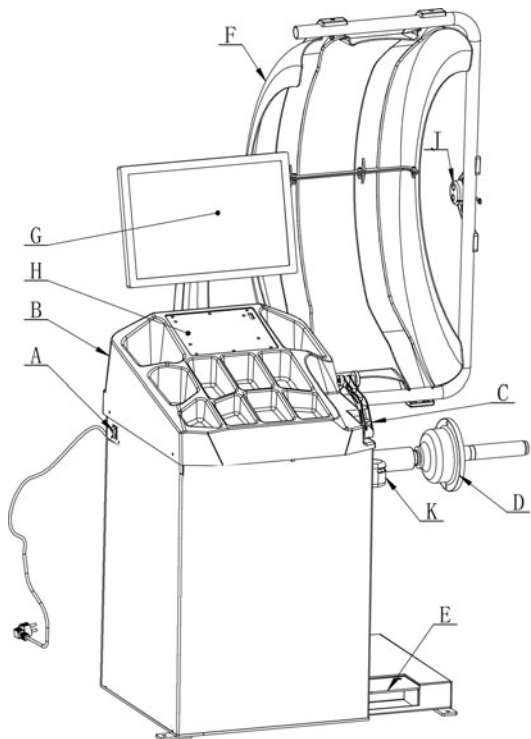


Main shaft-suitable cone(big head towards inside)
—wheel—quick handle nut

Attention: May add a wheel, and hold the wheel to help install the thread hub. When installing or taking off wheel, do not let wheel move on the shaft, to avoid scratching shaft.

3. Controls and components

No.	Item	Standard/Optional
A	Switch	S
B	Cover with tool tray	S
C	Gauge head	S
D	Main shaft	S
E	Pedal breaker	S
F	Safe guard	S
G	Screen	S
H	Key board	S
J	Width Gauge	S
K	LASER	S









Screen (G)



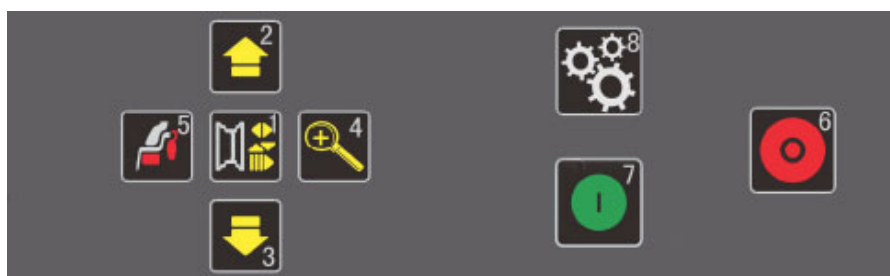
1. Inside amount of unbalance
2. Outside amount of unbalance
3. Balancing mode
4. Operating unit
5. Inside unbalance position indicator
6. Outside unbalance position indicator
7. Illustrated unbalance position
8. Function buttons to choose
9. Automatic lock

Eight balancing modes









inside	Icon	outside	Balancing mode	Operation	Add weights
12 o'clock		12 o'clock	Default	1. Turn on machine 2. Input a,b,d value 3. Start spin, after spin stop	Clip on weights on both sides of rim edge
9 o'clock		9 o'clock	ALU1	1. Turn on machine 2. Input a,b,d value 3. Press ALU button, indicator lit up 4. Start spin, after spin stop	Add adhesive weights on the rim shoulder both sides
12 o'clock		9 o'clock	ALU2	1. Turn on machine 2. Input a,b,d value 3. Press ALU button, indicator lit up	Clip on weight on inside rim edge, add adhesive weight on outside rim shoulder

				4. Start spin, after spin stop	
9 o'clock		12 o'clock	ALU3	<ol style="list-style-type: none"> 1. Turn on machine 2. Input a,b,d value 3. Press ALU button, indicator lit up 4. Start spin, after spin stop 	Add adhesive weights on the rim shoulder both sides
12 o'clock		12 o'clock	ALU4	<ol style="list-style-type: none"> 1. Turn on machine 2. Input a,b,d value 3. Press ALU button, indicator lit up 4. Start spin, after spin stop 	Clip on weight on inside rim edge, add adhesive weight on outside rim shoulder
9 o'clock		12 o'clock	ALU5	<ol style="list-style-type: none"> 1. Turn on machine 2. Input a,b,d value 3. Press ALU button, indicator lit up 4. Start spin, after spin stop 	Add adhesive weight on inside rim shoulder, clip on weight on outside rim edge
12 o'clock		12 o'clock	Static mode	<ol style="list-style-type: none"> 1. Turn on machine 2. Input a,b,d value 3. Press F button 3. Start spin, after spin stop 	Add adhesive weight
9 o'clock		9 o'clock	ALUS-1	<ol style="list-style-type: none"> 1. Turn on machine 2. Input aI,aE,d value 3. Start spin, after spin stop 	Add adhesive weights on the two positions gauge head touch
12 o'clock		9 o'clock	ALUS-2	<ol style="list-style-type: none"> 1. Turn on machine 2. Input aI,aE,d value 3. Start spin, after spin stop 	Add adhesive weights on the two positions gauge head touch

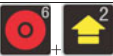

Key board





Icon	Function	Icon	Function
------	----------	------	----------

	Input rim data		Selection of “ALU” modes
	Data add key		Stop/Cancel/ brake
	Data reduction key		Start
	Unbalance display pitch and threshold		Setting

Key combination function

Icon	Function	Icon	Function
	Inch / mm conversion		Weight self calibration

Special functions (e.g. assembly)

Icon	Function	Icon	Function
	Automatic brake switch / can be used to load and unload tires		Looking for imbalances

4. Indication and use of wheel balancer

4.1. DYN (Standard/Default) mode

4.1.1. Clean wheel, take off counterweights, check pressure of wheel. Choose the way of installation according to the type of wheel.



Main shaft-wheel—
suitable cone(small head towards inside)—quick handle nut



Main shaft-suitable cone(big head towards inside)
—wheel—quick handle nut



Attention: May add a wheel, and hold the wheel to help install the thread hub. When installing or taking off wheel, do not let wheel move on the shaft, to avoid scratching shaft.







4.1.2. Turn on machine

4.1.3. Input a b d value

Turn on machine, choose right way to install wheel according to the type of wheel. Set “a” “b” “d” values:

- Set “a” value: move the gauge to measuring position as illustrated as Fig.1, hold the gauge still in

position for approx. 4 seconds, successful memorization is given, then return the gauge to position 0. (The value measured in automatic mode appear on the display). Or press  and  to change.

- Set “b” value: set nominal diameter “b” marked on the wheel or use the width gauge to measure the value of “b” as Fig.2a, then press  and  and  to change. If the balancer is with optional automatic width ruler, put down the plastic guard as Fig.2b, until there is a sound, means successful memorization is given, then release the gauge.
- Set “d” value: this value measured in automatic mode same time as “a” value setting, or press  and  and  to change.

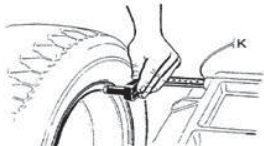


Fig.1

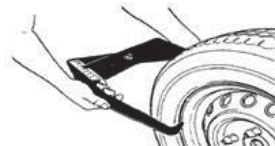


Fig.2 a

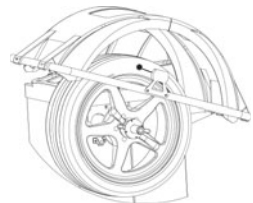
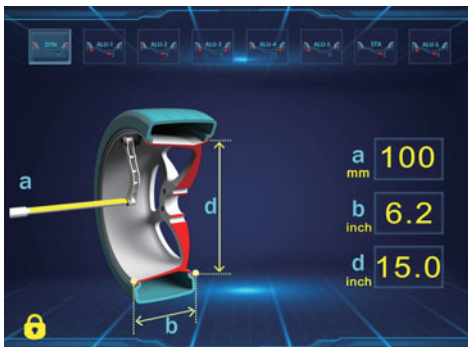



Fig.2 b



4.1.4. Put down the guard to perform a measuring spin.

4.1.5. In a few seconds the wheel is brought to operating speed and begin measuring unbalance, the unbalance values remain on instruments 1 and 2 when the wheel stopped. (Press  may check the real unbalance value under threshold.)

4.1.6. The left LED lit up full, clip weight on 12 o'clock position (Fig.3)



4.1.7. Press  or  to find the unbalance position on outside, when the wheel stopped, the right LED lit up full, clip weight on 12 o'clock position (Fig.4)



Fig.3



Fig.4

4.1.8. After finishing clipping the counterweights, put down the guard to perform balancing spin again, if comes out 00 00, means balancing succeed. (Fig.5)



Fig. 5


4.2. ALU-1 mode (ALU-1, ALU2, ALU 3, ALU 4, ALU5, same operation, only the position to add weights different)

4.2.1. Set "a" "d" "b" values

4.2.2. Press  until ALU1 indicator lit up

4.2.3. Put down the guard to perform a measuring spin.

4.2.4. In a few seconds the wheel is brought to operating speed and begin measuring unbalance, the unbalance values

remain on instruments 1 and 2 when the wheel stopped. (Press  may check the real unbalance value under threshold.)

4.2.5. The left LED will lit up full and the laser will indicate the correct angular position where to mount the counterweights, 9 o'clock position outside, as Fig.6, add the counterweight.



Fig. 6



4.2.6. Press  or  to find the unbalance position on outside, when the wheel stopped, the displays with right LED's lit up full and the laser will indicate the correct angular position where to mount the counterweights, 9 o'clock position inside, as Fig.7, add the counterweight.



Fig. 7

4.2.7. After finishing mounting the counterweights, put down the guard to perform balancing spin again, if comes out 00 00, means balancing succeed. (Fig.8)

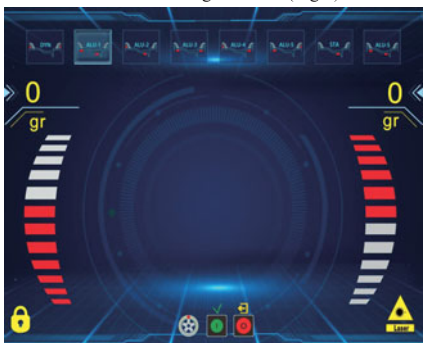














Fig. 8

4.3. ALU—S mode

This mode is used for special rim, if ALU1/ALU2 can not be used, you should choose ALUS mode.

Input aI, aE, d value

- Set “aI”: pull gauge out let the gauge head touch the position for 4 seconds(as figure below), may press  and ² and ³ to change
- Set “aE”: pull gauge out let the gauge head touch the position for 4 seconds(as figure below) , may press  and ² and ³ to change
- Set “dI”: read from rim, usually no need to operate, when input aI, dI will input automatically,or may press  and ² and ³ to change
- Set “dE”: read from rim,usually no need to operate, when input aE, dE will input automatically, may press  and ² and ³ to change

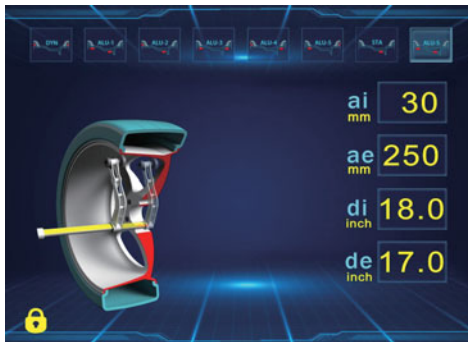
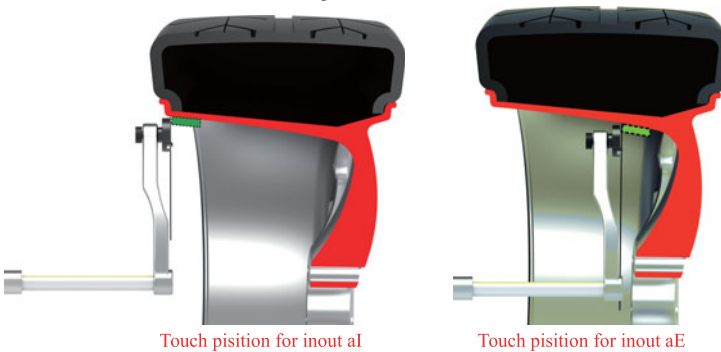


Fig. 9

Put down the guard to perform a measuring spin.

4.3.1. 9o'clock position to add weight

Laser indication operation

When the wheel stopped, the left LED lit up full, add weight on 9o'clock position follow the laser indication (Fig.10)



Fig. 10



Press  or  to find the unbalance position on outside, when the wheel stopped, the right LED lit up full, add weight on 9 o'clock position follow the laser indication (Fig.11)



Fig. 11

After finishing mounting the counterweights, put down the guard to perform balancing spin again, if comes out 00 00, means balancing succeed. (Fig.12)

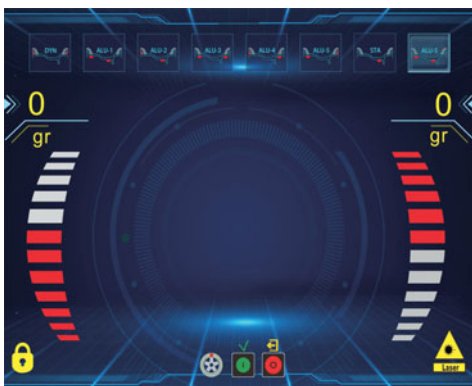









Fig. 12

4.4. ALUS split function

Note: Only ALU-S mode can use this function. And Operator must be experienced.

1		<p>In ALU-S mode, press </p>
2		<p>Press  and  to input the numbers of spokes, then press </p>

3		<p>Keep the next spoke(either direction is ok) on the position of 12 o'clock, press </p>
4		<p>Anticlockwise rotate wheel by hand slowly, until the outside SP1 lit up full, add the adhesive weight</p>
5		<p>Anticlockwise rotate wheel by hand slowly, until the outside SP2 lit up full, add the adhesive weight</p>
6		<p>Anticlockwise moving wheel slowly, the displays with left lit up full indicate the correct angular position where to mount the counterweights, 9 o'clock position inside</p>






7		Put down safe guard and press  , after spin stop
SP succeed		

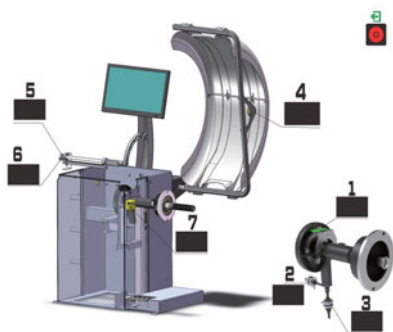
5. Machine Setting and Self-calibration


Press  goes to set machine, press  and  to change,  Confirmation of entry



5.1 Self diagnosis




press  keys to enter. select  and  Select		press  keys to enter
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


Order	Function	Function normal
1	Position pick up board	POS changes in 0-127
2	Pressure sensor	Use hand to press main shaft, 4X-4X 6X-6X changes
3	Pressure sensor	Use hand to press main shaft, 4X-4X 6X-6X changes
4	Width potentiometer	left window data is 327-340, turn ruler to another direction, data changes
5	Diameter potentiometer	left window data is 327-340, turn ruler to another direction, data changes
6	Distance potentiometer	Left window data is 327-340, when pull gauge out, the data changes
7	Laser Indicator	There is a digital angle change. See if the indication is turning?
PS:When enter self diagnosis,Press  twice to access the manual and video functions,then will come 5.1.2 as follows		

5.1.2 User manual and video functions

















Press  and  to choose, press the  key to enter, and exit through .

	Customer's manual
	English description
	Operation video

5.2 Machine setting

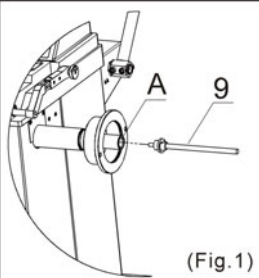
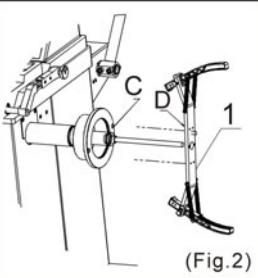
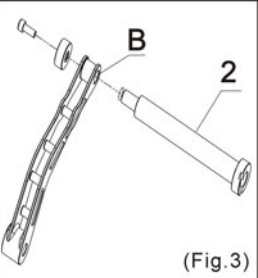
press  keys to enter. select  ² and  ³ Select		press  keys to enter
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Order	Display	Function	Function normal
1	 	Unit of weight	 ² and  ³ for modification,  ⁵ for the next item
2	  	Unbalance display threshold	 ² and  ³ for modification,  ⁵ for the next item
3	 	Rim type	 ² and  ³ for modification,  ⁵ for the next item

5.2.1. Motorcycle adaptor install






★Use the motorcycle adapter for wheel balancer we provide★



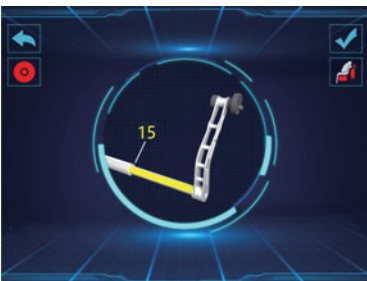


Step 1	Step 2	Step 3
 <p>(Fig.1)</p>	 <p>(Fig.2)</p>	 <p>(Fig.3)</p>
<ol style="list-style-type: none"> 1. Take off standard thread for car 2. Replace with part No.9 in position A (Fig. 1) 	<ol style="list-style-type: none"> 1. Install part No.1 through No.9 2. Lock and fix in position C and D (Fig. 2) 	<ol style="list-style-type: none"> 1. Take off the standard gauge head for car 2. Replace with part No.2 in position B (Fig. 3)

order	Display	Function	Display wheel type after turn on balancer
1		Car wheel	
2		Motorcycle wheel	








★ “Display wheel type after turn on balancer” means after turn on machine, it comes signal to tell you it is a car mode or motorcycle mode.

5.3 Rim distance gauge calibration

press  keys to enter. select  ² and  ³ Select		press  keys to enter
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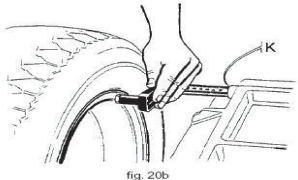
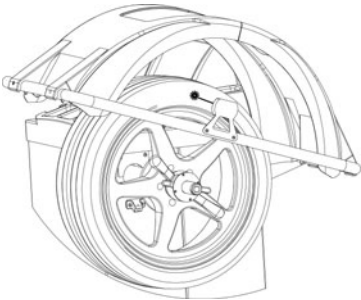




1		operation>	pull gauge to position “0” and hold, press 
2		operation>	pull gauge to position “15” and hold, press 
3		operation>	Calibration finished

5. 4 Radar Calibration of width gauge (No tyres need to be installed)













press  keys to enter. select  ² and  ³ Select			press  keys to enter
1	 Keep the shield in position	comes>	
Width gauge calibration finished			

5.4.1 Width compensation for Radar






Tire installation required note (known tire width)






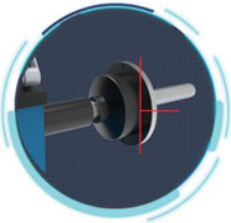


1	A value must be entered	explain>	
2	We're aiming the radar at the tires	explain>	
3		explain>	Press  ⁴  ²  ³ at the same time to modify the known tire width
Put down the key to save automatically			

5.5. Calibration of diameter gauge (Install a tire)

press  keys to enter. select  ² and  ³ Select			press  keys to enter
1		operation>	Enter diameters by  ² and  ³ , then press  ⁵ keys to confirm.
2		operation>	move gauge to touch the edge of rim and keep still, press  ⁵ keys to confirm.
3		operation>	Calibration finished

5.6 Calibration of laser

press  keys to enter. select  ² and  ³ Select			press  keys to enter
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1		operation>	 keys to confirm.
2		operation>	By  and  , the laser is aligned
3		operation>	 keys to confirm.
4		operation>	Calibration finished

5.7. Self-calibration of weight


5.7.1 Self-calibration of wheel balancer

5.7.2 Turn on balancer, install a medium size wheel (14"-18") which can use clip-on weight, set "a b d" value, then

Do the self-calibration whenever you think the balancer is not accurate. The 100g weight must be accurate.


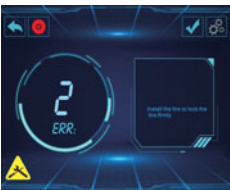
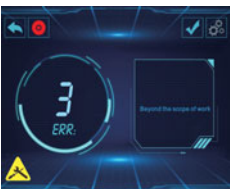
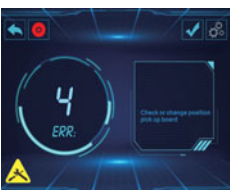
press  keys to enter. press  and  to select		press  keys to enter
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1		operation>	Put down safe guard to start spin, after spin stop
2		operation>	Open the safe guard and clip a 100 gram weight on the outside 12 o'clock position, put down safe guard to start spin, after spin stop
3		operation>	Open the safe guard and remove the 100gram weight from outside then clip the 100 gram weight on the inside 12 o'clock position, put down safe guard to start spin, after spin stop

4		operation>	Calibration finished
---	---	------------	----------------------

6. Errors

Various abnormal conditions can arise during machined operation by the microprocessor, if comes the errors, must stop operation, find the reason and the solution according, if the error persists, consult the supplier.

No.	Errors	Reasons	Solution
1		<ol style="list-style-type: none"> 1. No spin 2. Shaft spin 	<ol style="list-style-type: none"> 1. If no spin, check or change power board 2. If spin, check or change position pick up board and computer board 3. Adjust position pick up board support
2		<ol style="list-style-type: none"> 1. No wheel or wheel not locked tightly 2. Position pick up board problem 	<ol style="list-style-type: none"> 1. Lock tightly 2. Check or change position pick up board
3		<ol style="list-style-type: none"> 1. No enough pressure in wheel 2. Wheel distortion 	<ol style="list-style-type: none"> 1. Add proper pressure in wheel 2. Check wheel
4		<ol style="list-style-type: none"> 1. Position pick up board problem 2. Computer board problem 	<ol style="list-style-type: none"> 1. Check or change position pick up board 2. Check or change computer board







5		<ol style="list-style-type: none"> 1. Micro switch problem 2. Computer board problem 	<ol style="list-style-type: none"> 1. Check or change Micro switch 2. Check or change computer board
6		<ol style="list-style-type: none"> 1. Power board problem 2. Computer board problem 	<ol style="list-style-type: none"> 1. Check or change power board 2. Check or change computer board
7		<ol style="list-style-type: none"> 1. Program lost 2. Computer board problem 	<ol style="list-style-type: none"> 1. Self calibration 2. Check or change computer board
8		<ol style="list-style-type: none"> 1. No add 100g weight during self calibration 2. Computer board problem 3. Power board problem 	<ol style="list-style-type: none"> 1. Add 100g weight 2. Check or change computer board 3. Check or change power board
9		emergency stop	return
10		Data protection	<ol style="list-style-type: none"> 1. Contact vendor unlock 2. Update data

7. OPT function

Note: When unbalance value is too much, choose OPT, and operator must be experienced.

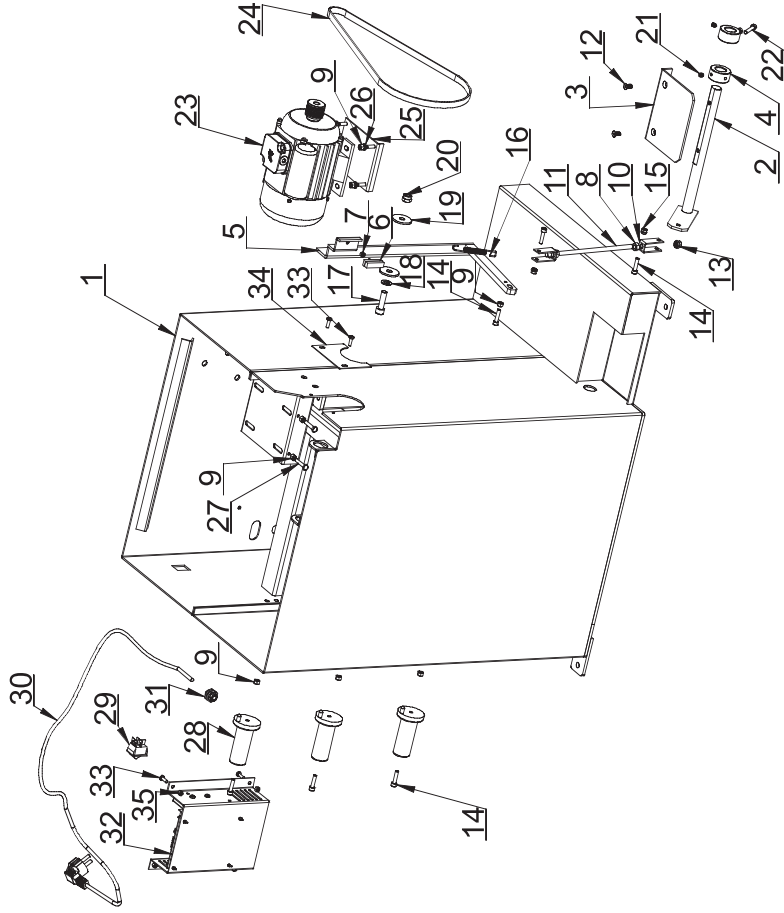
Install wheel, input a b d value

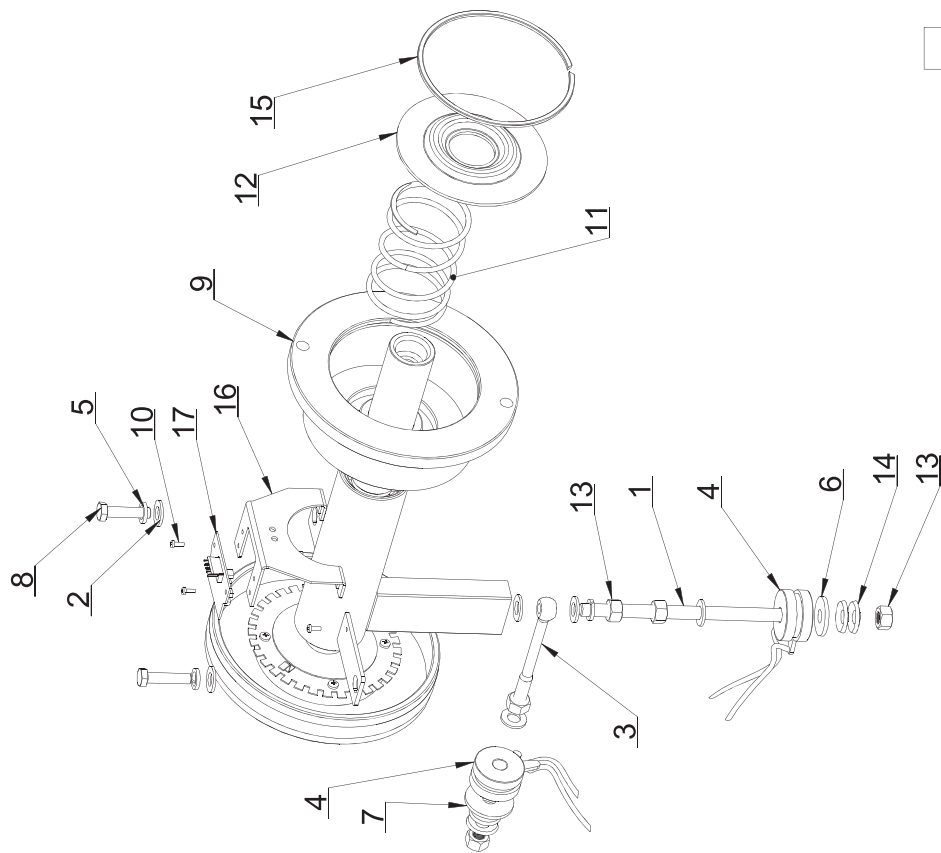
1	Press  + 	comes>	
2	Put down safe guard and press 	comes>	
3	With the help of tire changer, change the rim and rubber 180 degree	reference>	
4	Then put down safe guard and press 	comes>	
5	Rotate wheel until four indicators lit up (two on both sides, the dark spot in the right side picture), mark the position C with chalk on rubber	reference>	

6	Press  and  Rotate wheel until two indicators lit up (one on both sides, the dark spot in the right side picture), mark the position D with chalk on rim	reference>	
7	Press  with the help of tire changer, change the rim and rubber to make C and D match	reference>	
8	Put down safe guard and press 	comes>	If unbalance is less than before, OPT succeed

8.Spare parts list and exploded drawings

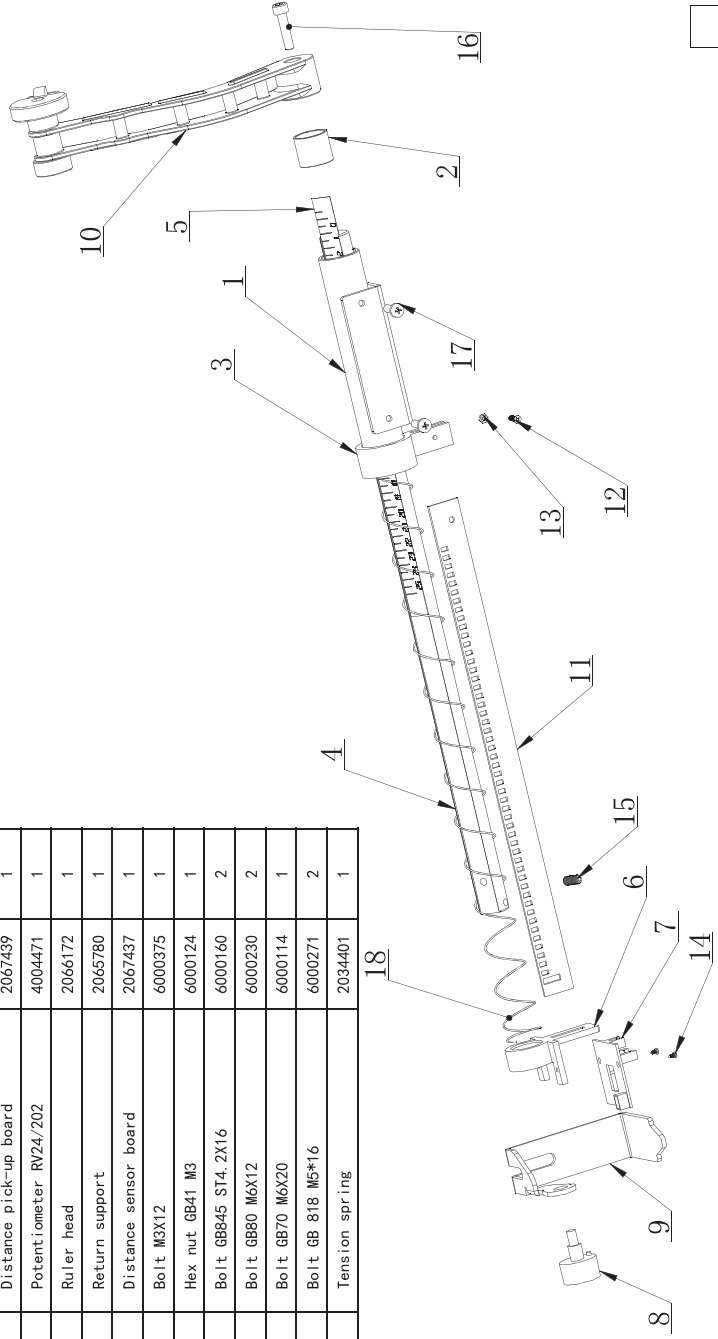
ITEM NO	DESCRIPTION	PART NO.	Q'TY
1	Body	2064814	1
2	Foot lever	2064939	1
3	Brake pedal	2064962	1
4	Brake ring	2064941	2
5	Brake lever	2064944	1
6	Brake pads	3005142	1
7	Hex nut GB41 /M4	6000341	1
8	Hex nut GB41 /M8	6000127	2
9	Hex nut GB41 /M6	6000309	11
10	Connecting	2064942	2
11	Connecting rod	2065534	1
12	Bolt GB2673 M6X12	6000417	2
13	Hex nut GB889 /M8	6000148	2
14	Bolt GB70 /M6X25	6000294	6
15	Hex nut GB41 /M6	6000233	2
16	Tension spring	2010701	1
17	Bolt GB170 M10X60	6000289	1
18	Flat washer GB95/Φ10	6000134	1
19	Flat washer GB95 /Φ38x10x3	2037401	2
20	Hex nut GB889 M10	6000143	1
21	Bolt GB80 M6X12	6000230	2
22	Bolt GB70/M6X35	6000207	1
23	Motor MY6224	4003001	1
24	Belt 380J5	6000171	1
25	Fixed seat	2034501	1
26	Flat washerΦ6	6000138	4
27	Bolt GB70/M6X30	6000120	2
28	Holder	2034301	3
29	Power Switch	4000801	1
30	Plug	4001901	1
31	Cable glands	4002201	1
32	Power box	2065781	1
33	Bolt GB818 M5X16	6000271	4
34	Small side plate	2043601	1
35	Hex nut GB41 /M6	6000125	4



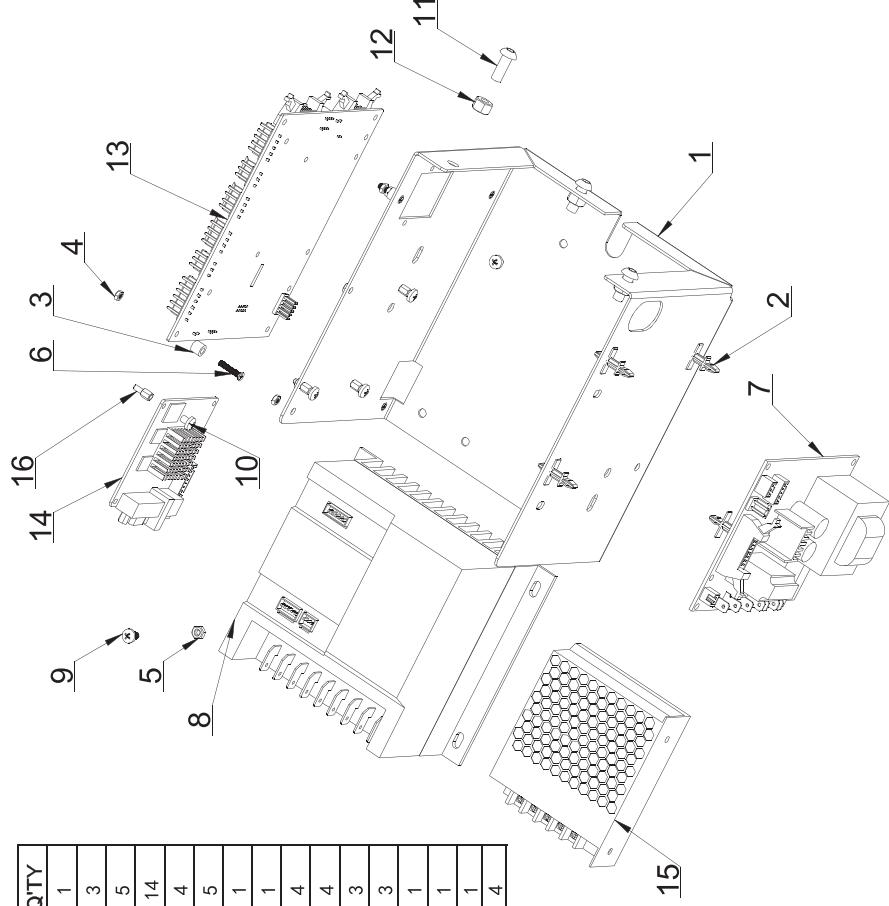


ITEM NO	DESCRIPTION	PART NO.	Q'TY
1	Screw M10X160	6000201	1
2	Flat washer GB95/Φ10	6000134	6
3	Horizontal screw M10X160	6000176	1
4	Pressure sensor	4001701	2
5	Spring washer GB93/Φ10	6000197	3
6	Spring washer GB93Φ30x10x3	2052501	1
7	Spring washer GB93Φ38x10x3	2037401	1
8	Screw GB5783 M10X25	6000184	2
9	Complete axle	2032901	1
10	Bolt GB818/M4X10	6000267	4
11	Tower spring	2042801	1
12	Plastic lid	3005013	1
13	Hex nut GB41 M10	6000336	5
14	Copper backing	6000159	4
15	Retaining ring	2067389	1
16	Support	2034001	1
17	Position pick-up board	5000401	1

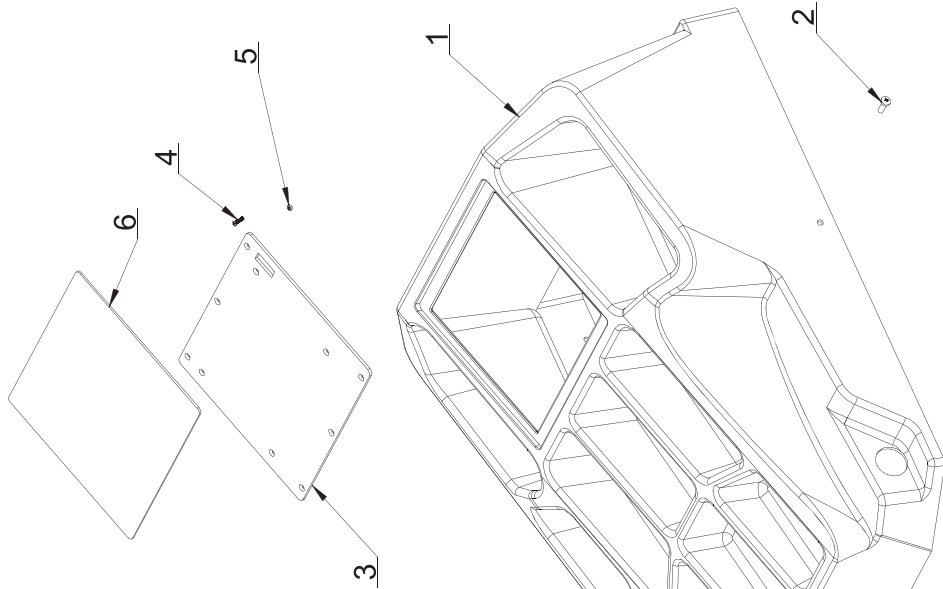
ITEM NO	DESCRIPTION	PART NO.	Q'TY
1	Shaft	2064812	1
2	Plastic sleeve	2064398	1
3	Distance sensor board	2067562	1
4	Alumi num ruler	2046301	1
5	Footage number	5001388	1
6	Distance pick-up board	2067563	1
7	Distance pick-up board	2067439	1
8	Potentiometer RV24/202	4004471	1
9	Ruler head	2066172	1
10	Return support	2065780	1
11	Distance sensor board	2067437	1
12	Bolt M3X12	6000375	1
13	Hex nut GB41 M3	6000124	1
14	Bolt GB845 ST4.2X16	6000160	2
15	Bolt GB80 M6X12	6000230	2
16	Bolt GB70 M6X20	6000114	1
17	Bolt GB 818 M5*16	6000271	2
18	Tension spring	2034401	1

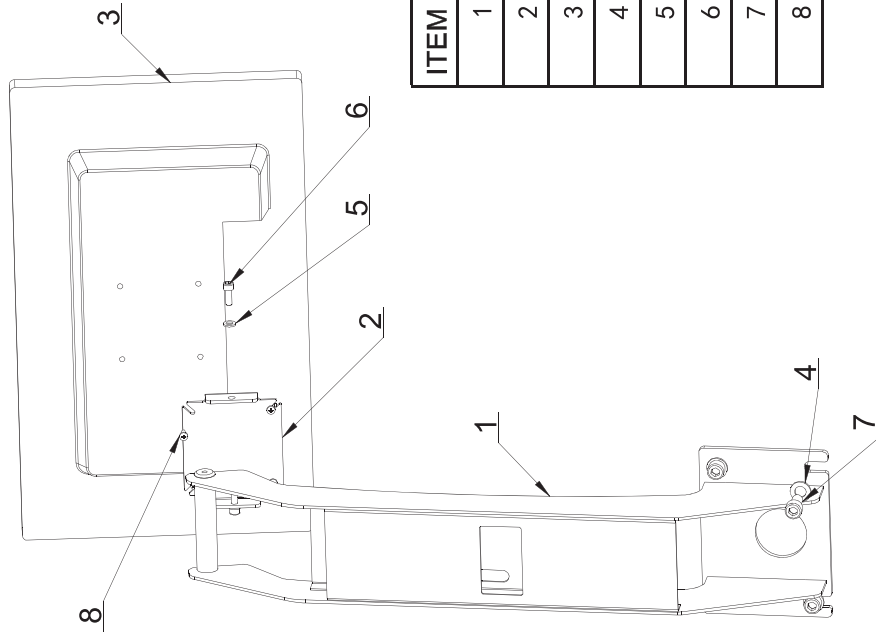


ITEM NO	DESCRIPTION	PART NO.	Q'TY
1	Power box	2066379	1
2	Support	4004380	3
3	Support	4004389	5
4	Hex nut GB41 M3	6000124	14
5	Hex nut GB41 M4	6000341	4
6	Bolt GB819 M3X15	6000375	5
7	Electric power board	5001443	1
8	Driving module	5001444	1
9	BoltGB818 M4X12	6000267	4
10	BoltGB818 M3X5	6000513	4
11	Bolt GB70 M6X16	6000407	3
12	Hex nut GB41 M6	6000309	3
13	Computer bard	5001441	1
14	VGA display card	5001442-01	1
15	Display card power supply	4004507	1
16	Support	6000512	4



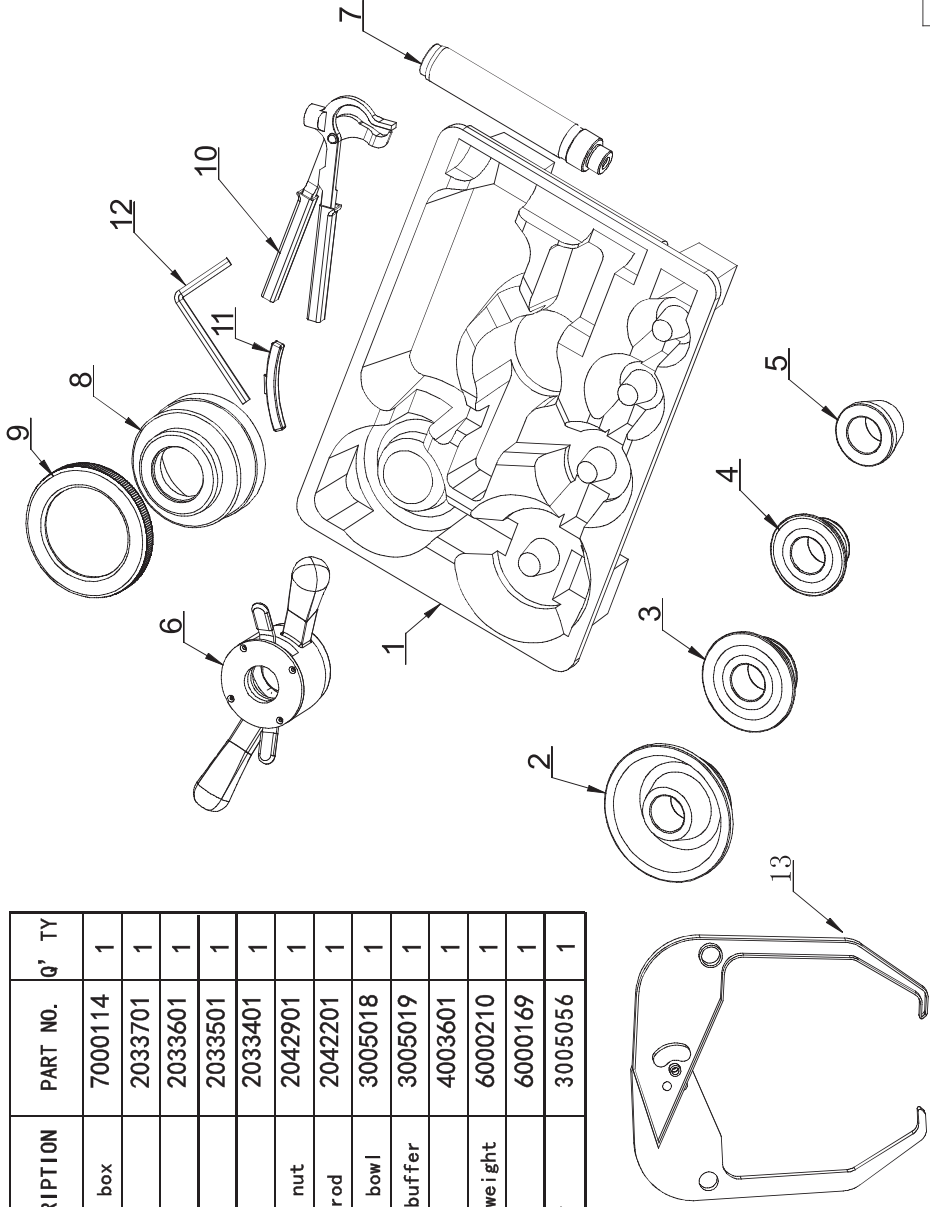
ITEM NO	DESCRIPTION	PART NO.	Q'TY
1	Head with Tools Tray	3005394	1
2	Bolt GB818/ M5X16	6000271	3
3	Fix Plate	2066356	1
4	Bolt GB819/M3X16	6000374	4
5	Hex nut GB41 M3	6000124	4
6	Key board	5001439	1



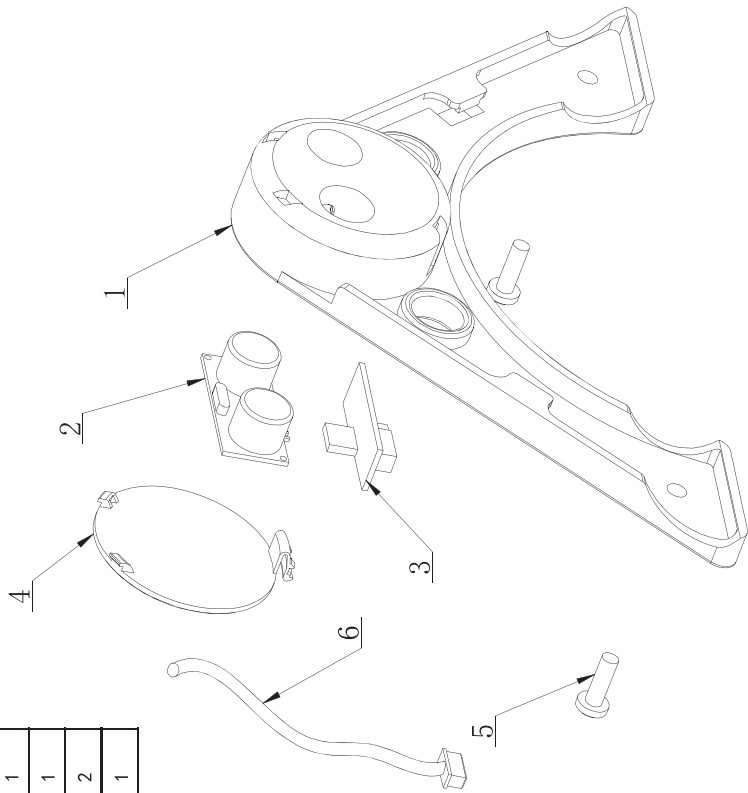


ITEM NO	DESCRIPTION	PART NO.	Q'TY
1	Display bracket	2066527	1
2	Display mounting plate	2066520	1
3	Display	5001445	1
4	flat washer $\Phi 10$	6000134	4
5	flat washer $\Phi 6$	6000138	5
6	Bolt M6X20	6000114	2
7	Bolt M10X25	6000184	1
8	Bolt M4X8	6000267	4

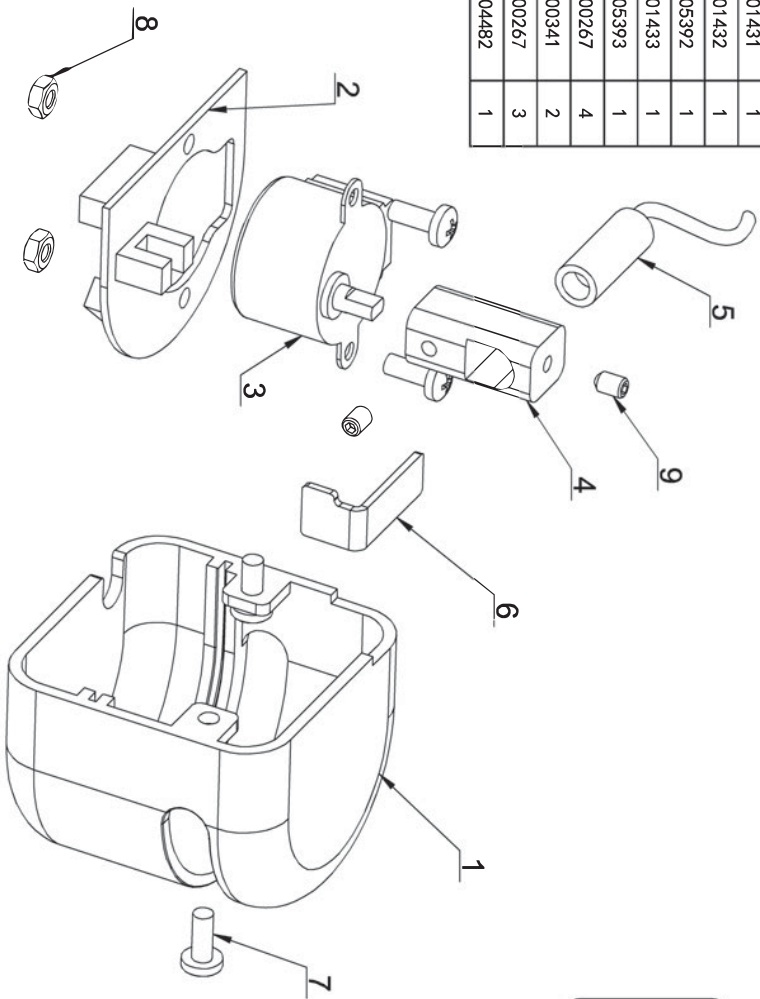
ITEM NO	DESCRIPTION	PART NO.	Q' TY
1	Package box	7000114	1
2	Conic 4	2033701	1
3	Conic 3	2033601	1
4	Conic 2	2033501	1
5	Conic 1	2033401	1
6	Locking nut	2042901	1
7	Thread rod	2042201	1
8	Plastic bowl	3005018	1
9	Rubber buffer	3005019	1
10	Hammer	4003601	1
11	Counterweight	6000210	1
12	Spanner	6000169	1
13	Caliper	3005056	1



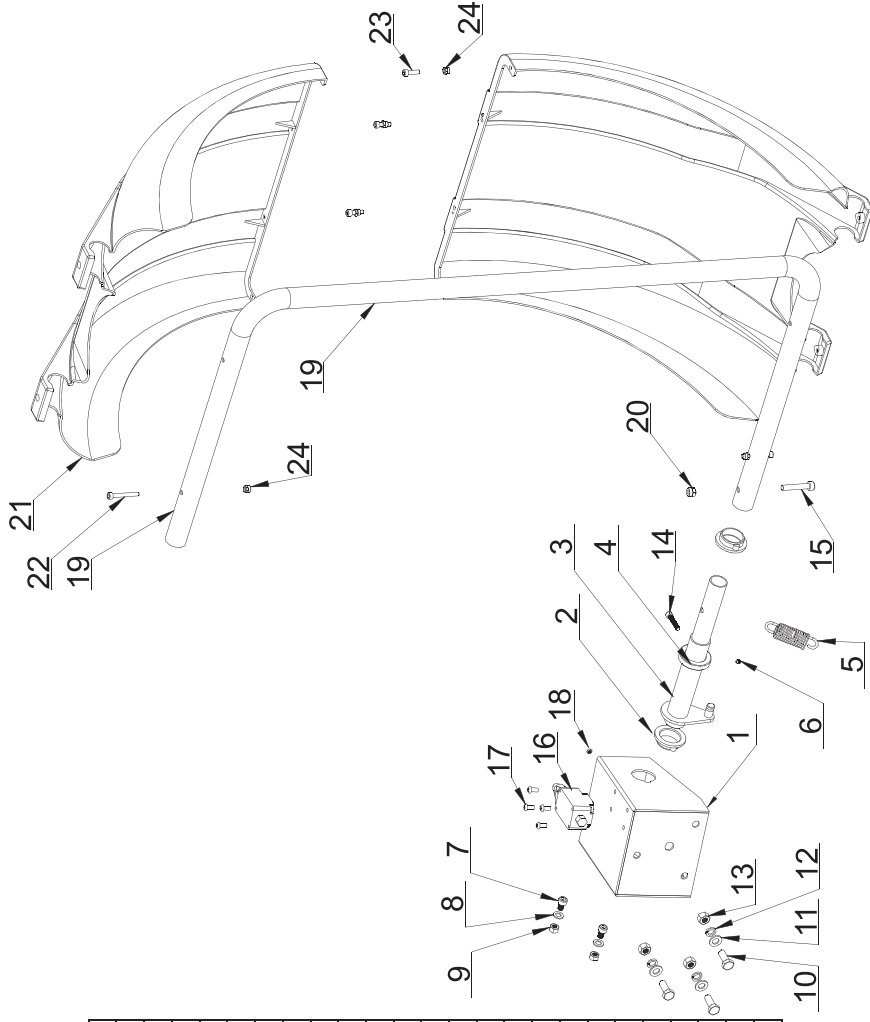
ITEM NO	DESCRIPTION	PART NO.	Q'TY
1	Radar housing	3005423A	1
2	Radar ranging module	2067613	1
3	Radar control board	2067614	1
4	shell	3005423B	1
5	Bolt GBT818 M5X16	6000271	2
6	Radar control line	4002209	1



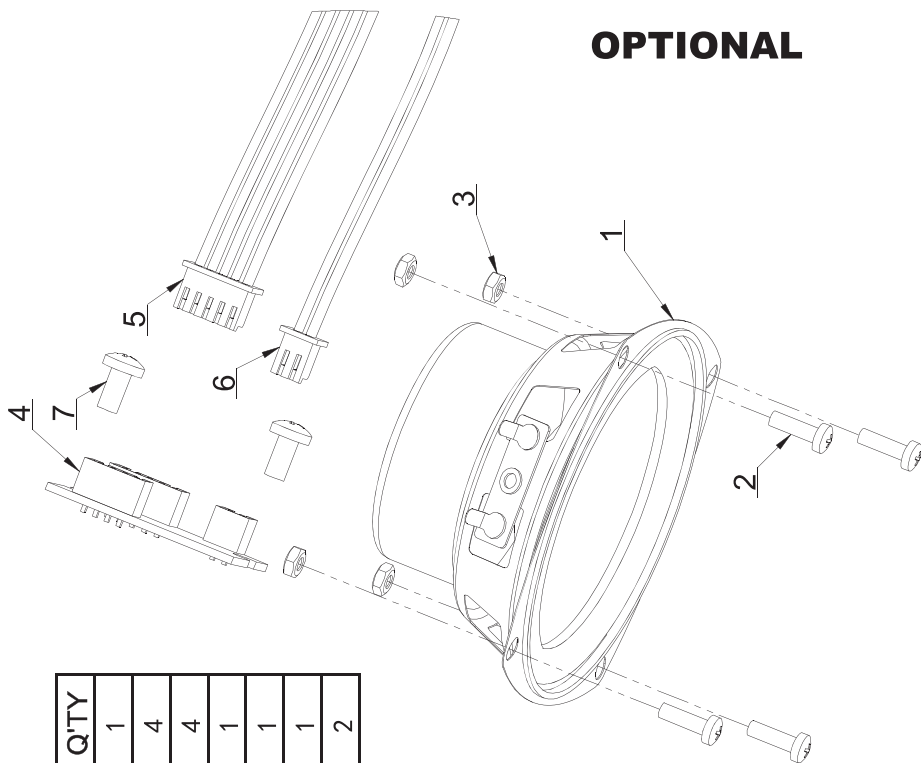
ITEM NO	DESCRIPTION	PART NO.	Q'TY
1	Protective shell	3005391	1
2	Laser Control Board	5001431	1
3	(28BY-48) motor	5001432	1
4	Laser Fixed Bracket	3005392	1
5	Gross Laser Head	5001433	1
6	Control Zero	3005393	1
7	Bolt GB818 M4X10	6000267	4
8	Hex nut GB41 M4	6000341	2
9	Bolt GB80 M4X8	6000267	3
10	The signal line	4004482	1



ITEM NO	DESCRIPTION	PART NO.	Q'TY
1	Protection box	2043701	1
2	Plastic ferrule	3002301	2
3	Shaft	2036601	1
4	Ferrule	2034201	1
5	Tension spring	2053501	1
6	Bolt GB80/M6X10	6000130	1
7	Bolt GB70/M8X20	6000102	2
8	washer GB95/Φ8	6000142	2
9	Hex nut GB41 M8	6000127	2
10	Screw GB5783 M10X25	6000184	3
11	washer GB95/Φ10	6000134	3
12	Spring washer GB93/Φ10	6000197	3
13	Hex nut GB41 M10	6000123	3
14	Bolt GB5783 M6X35	6000207	1
15	Bolt GB70 M8X45	6000435	1
16	Micro switch	4004496	1
17	Bolt GB818 M6X12	6000478	4
18	Hex nut GB41 M4	6000341	0
19	Bend pipe	2033301	1
20	Hex nut M8	6000127	1
21	Plastic cover (Ø716)	3002501	2
22	Bolt GB70 M6X45	6000435	2
23	Bolt GB70 M6X20	6000114	4
24	Hex nut M6	6000309	6



ITEM NO	DESCRIPTION	PART NO.	Q'TY
1	Speaker	2066466	1
2	Bolt GB818 M3*15	6000510	4
3	Hex nut GB41 M3	6000124	4
4	Voice control board	2066469	1
5	The signal line	4004488	1
6	Speaker Cable	2066470	1
7	Bolt GB818 M4*8	6000393	2



OPTIONAL

