

VIDEOTRONIC V644.G3 USER'S MANUAL



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WARNING

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.Prior of the installation of the unit described in this manual, user should read this manual carefully to be instructed properly on installation, use and maintenance of the unit.

.Failing to read this manual and operate accordingly may cause damage to the user or the unit.

.FASEP 2000 srl shall not be responsible for inconvenience, breakdown, accidents due to uncomplete knowledge of this manual or uncomplete application of recommendations described in this manual.

.FASP 2000 srl shall not be responsible for inconvenience, breakdown, accidents due to unauthorized modifications of the unit, use of non-original or unauthorized accessories (see Accessories listing in this manual for a list of original accessories available for this model).

.FASEP 2000 srl shall not be responsible for any inconvenience, breakdown, accidents caused directly or indirectly by not qualified service. Service to any parts by not qualified persons will void warranty and will void any right of the owner of the unit.

SYMBOLS AND CONVENTIONS

To speed the retrieval of main information and make easy to understand the instructions, this manual uses the following typing conventions:

<NAME OF THE PUSH BUTTON> Used to indicate name of push-buttons on the control panel.

DISPLAY Used to indicate text or number visible on the displays on the control panel.



ADVICES

Contain useful advices or solutions, evidenced with respect to the rest of the text.



NOTE

Notes contain important information, evidenced to the rest of the text.



WARNING

Warning messages appears corresponding to procedures that, if not properly observed, may lead to loose of data or cause damage to the unit.



CAUTION

Caution messages appears corresponding to procedures that, if not properly observed, may cause injuries to the user.

ORIGINAL INSTRUCTIONS

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1 PRESENTATION

1.0 Intended Use

This unit is designed to measure and correct static and dynamic unbalance of vehicle wheel, the dimension and weight of which are within the working range of the machine (see %Technical Data-appendix for reference)

This unit is meant for a professional use. Operator shall be properly trained before use. Training Course is not included in the price of the unit and must be purchased separately.

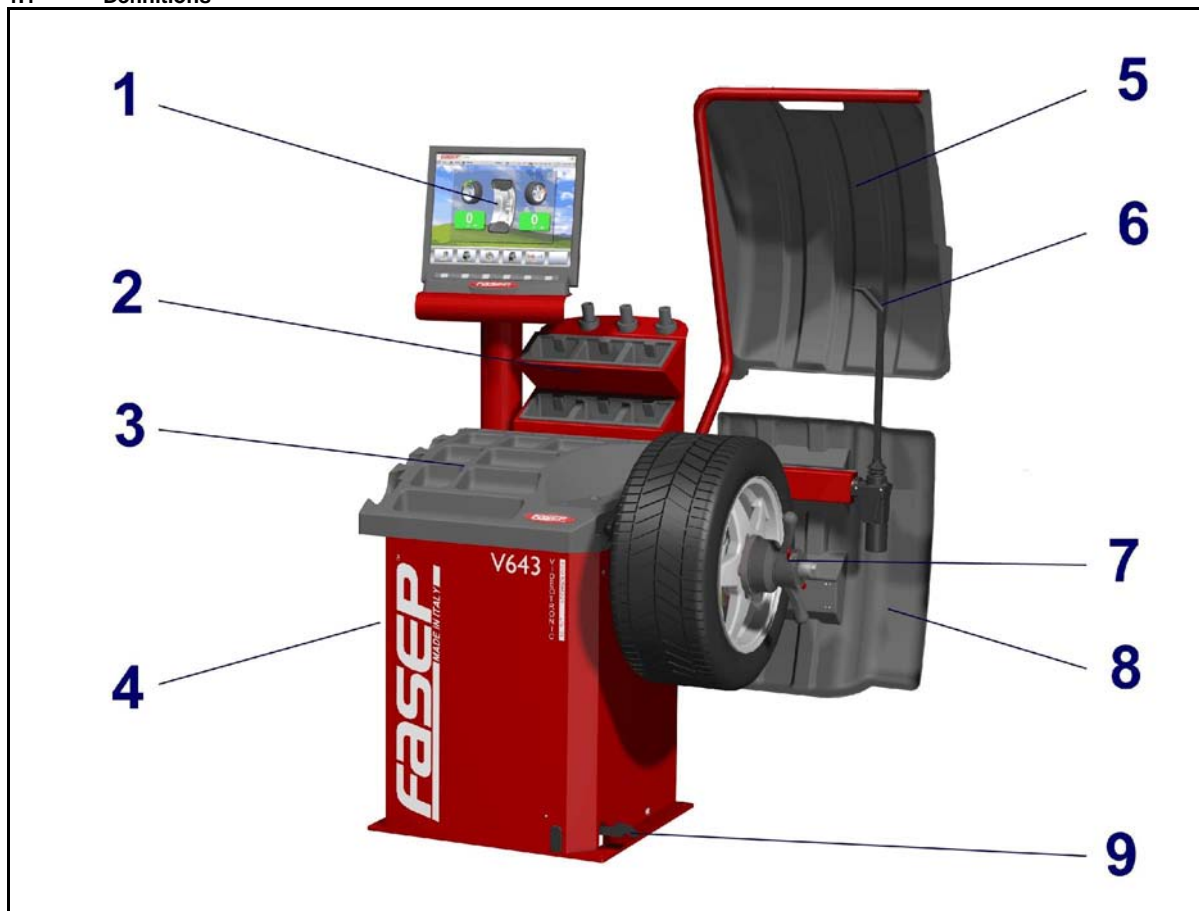
This unit is designed for indoor use only (see %Environmental Data-appendix for reference).



CAUTION:

This unit is designed to spin vehicle wheels only, within the range of dimensions and weight approved (see %Technical Data-appendix for reference). Special adaptors suit this purpose. Do not attempt to use the machine to spin anything else. Unproper locking may cause the part being spinned to be ejected, causing damage to the unit itself, the operator or anything in the in the neighborhood.

1.1 Definitions



- 1. Monitor
- 2. Back-mounted weight-compartments
- 3. Weights and tools trays
- 4. Side flange-holders
- 5. Wheel guard

- 6. EMS External Measuring system
- 7. Quick lock + HD shaft
- 8. Lower wheel guard
- 9. Foot-pedal

2 INSTALLATION

2.1 Moving the unit



WARNING When the unit has to be moved: never lift balancer by motor shaft or by neighborhood of it.

2.2 Assembling the unit

For ease of transportation, the wheel balancer might be disassembled into units. If necessary, assembling instruction are provided within each package..

2.3 Installation

The wheel balancer must be installed on a firm and level ground.



NOTE: the machine must be secured to the floor. Using four holes in the base and anchor bolts provided

2.4 Electrical Hookup



CAUTION: Failure to follow these instructions can results in damage to unit or create an electrical hazard and will void warranty..

2.4.1 Electrical hookup is to be provided by a qualified electrician.

2.4.2 A fusible wall-mounted switchbox is required at the installation site. This switch should provide on-off control and overload protection for your wheel balancer only. The switchbox should be fused with time-delay fuse(s) in accordance with the power rating specified on your wheel balancer.

2.4.3 Electrical connection of the machine should be by plug connectors.

2.4.4 The balancer must be effectively connected to ground. The electric cord is regularly provided with a ground terminal.

2.4.5 Make sure that Power Rate Specifications for your wheel balancer (refer to nameplate on the wheel balancer) comply with those provided by the external power source.



CAUTION After electrical hookup has been performed unit is ready to operate. Always observe pertinent safety precautions when operating the unit (see Appendix tables for an overview of relevant Safety requirement).

2.5 Compressed air Hookup (PL models only)



CAUTION Failure to follow these instructions can result in damage to unit or create a hazard and will void warranty.

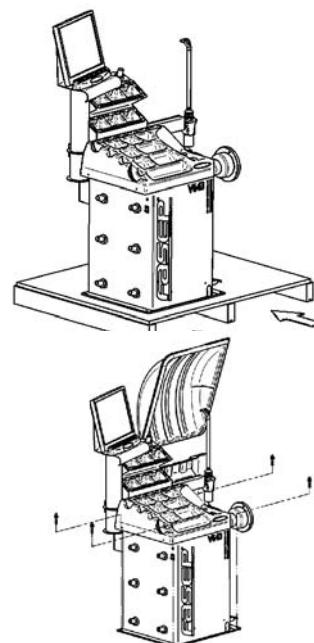
1. Compressed Air hookup is to be provided by a qualified technician, under the local safety requirements, in line with relevant national standards and regulations. All fitting and hoses must conform to local codes.
2. A wall-mounted lubricator and water-separator is required at the installation site.
3. Compressed Air circuit to the balancer shall be regulated to a maximum pressure of 7 atm. Overpressure could compromise cylinder operation.

2.5.1 CONNECT TO AIR SUPPLY:

The machine is fitted with a universal connector and therefore no other special or additional fitting is required. Push all the way onto the connector a high pressure rubber air-hose and secure it.

2.6 Power

Plug the wheel balancer into a 220V socket. To switch on the wheel balancer press the red button (power) untill it light up. To swicth off the wheel balancer press the red button (power) untill it light off.



3 USE OF CONTROL PANEL



Fig. 6 Panel V643

3.1 Meaning of the icons on the screen



Fig. 7

Select balancing mode



Fig. 10

Delete last character in input activation code

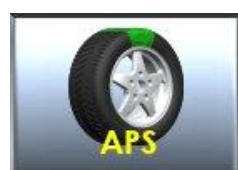


Fig. 8

APS Function

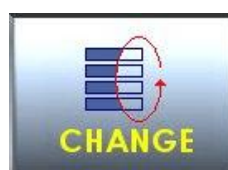


Fig. 11

Change selection



Fig. 9

Calibration

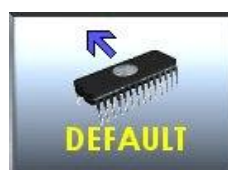


Fig. 12

Set default values



Fig. 13

Diagnostic



Fig. 20

Laser calibration



Fig. 14

Key down



Fig. 21

Put in the rod laser in rest position



Fig. 15

Position calibration



Fig. 22

Start laser



Fig. 16

Go to previous page



Fig. 23

Extract fully rod laser



Fig. 17

Fine resolution



Fig. 24

Manul input measures



Fig. 18

Access to Information center

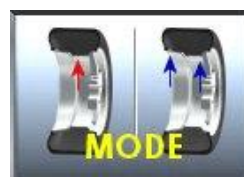


Fig. 25

Set Dynamic/Static



Fig. 19

Access to page measures



Fig. 26

Mode moto



Fig. 27

Key SET/OK



Fig. 34

Set measures



Fig. 28

Double operator



Fig. 35

Go to setup menu



Fig. 29

Optimize



Fig. 36

Skip current operation



Fig. 30

Restart software



Fig. 37

Split function



Fig. 31

Reset partial statistics



Fig. 38

Stop turning wheel



Fig. 32

Reset variation in page Sensor



Fig. 39

Key up



Fig. 33

Save



Fig. 40

View menu and selection
(UP/DOWN)

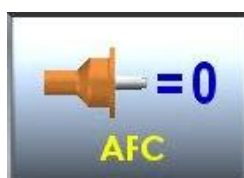


Fig. 41

Automatic flange calibration

4.0 CALIBRATION OF WHEEL BALANCER

4.1 How to calibrate the wheel balancer



NOTE: the following symptoms indicate need for calibration::

- a) check calibration program fails.
- b) constant low or high weight readings.
- c) indicated point of unbalance constantly wrong
- d) more than 2 spins required to balance wheels repeatedly.



Fig. 42

Switch on the wheel balancer.

Select **SET UP > CALIBRATION > SET/OK > CALIBRATION > SET/OK**.

Spin with no wheel on shaft (Fig. 42)

Close the wheel guard or press **<START>**.

At the end of the spin, put a wheel (Fig. 43) and close the wheel guard or press **<START>**.

At the end of the spin, put the calibration weight (Fig. 44) and close the wheel guard or press **<START>**.

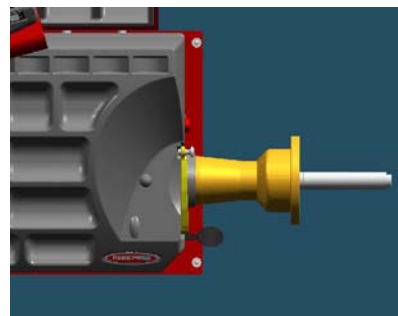


Fig. 43

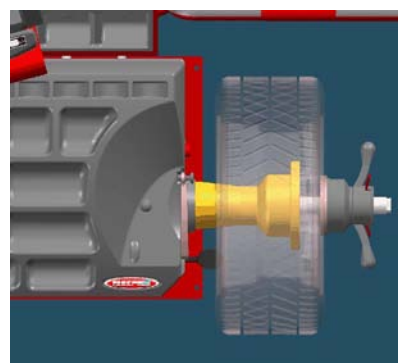


Fig. 44

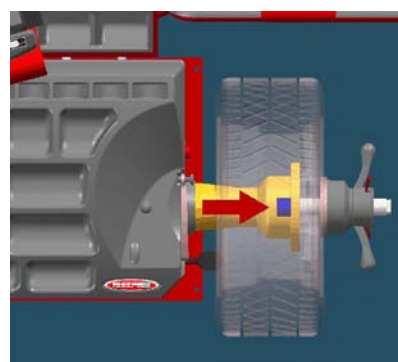


Fig. 45

4.2 How to control the calibration of wheel balancer and position weight



Fig. 46

Switch on the wheel balancer.

Select **SET UP > CALIBRATION > SET/OK > CHECK CALIBRATION > SET/OK**.

Put a wheel on the shaft and press **<START>** (Fig.46).

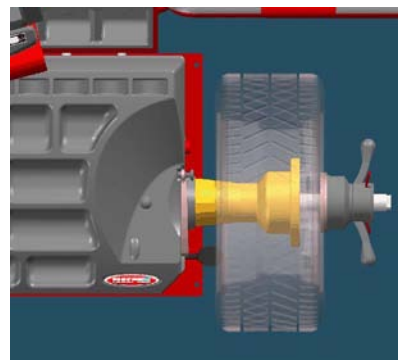


Fig. 47

Put the calibration weight (Fig.47) and press **<SET/OK>**.

Close the wheel guard or press **<START>**.

At the end of the spin, **160-0** will show on the video (tolerance allowed is ± 10).

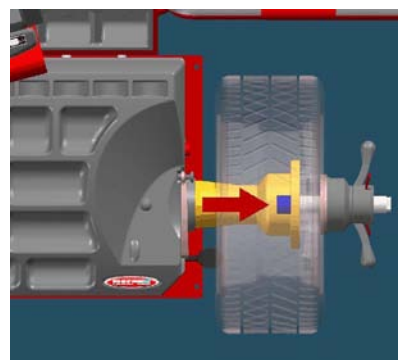


Fig. 48

Put the weight at 6h o'clock: the weight indicators of internal side must be both green.

If not, press **<6h>**.

Put the weight at 6h o'clock and press **<SET OK>**.

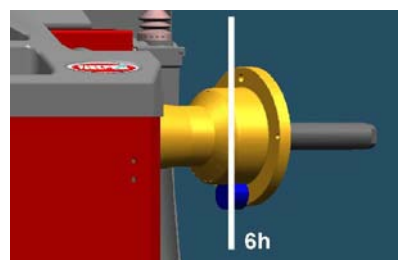


Fig. 49

5 Calibration ALU-SE

Switch on the wheel balancer.

**MAIN MENU > MENU > RESET > CALIB > ALU-SE
CALIBRATION > SET/OK** (fig..49).

Put the rod on rest position (fig.49) and press **SET/ OK**.

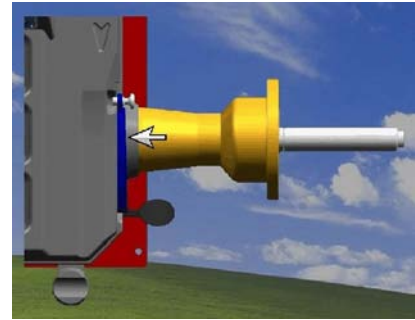


Fig. 50

Put the rod on the flange (fig.50) and press **SET/ OK**.

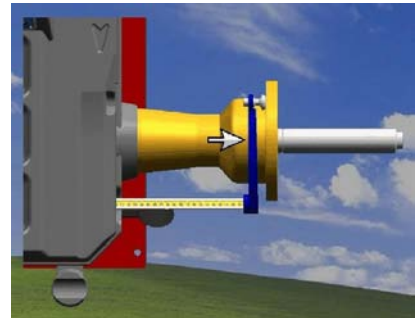


Fig. 51

Select width of wheel

Put the rod on internal side of the rim (fig.51) and press **SET/OK**.

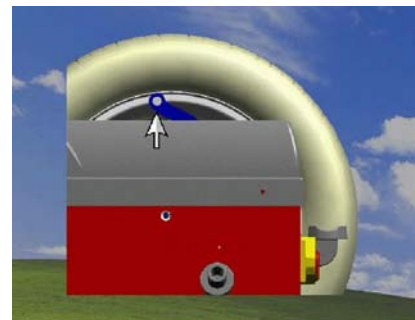


Fig. 52

Press **<ESC>** to go back to standard use.

6 Calibration SME

Switch on the wheel balancer.

**MAIN MENU > MENU > RESET > CALIB > SME
CALIBRATION > SET/OK** (fig. 52)

Put the rod on rest position (fig. 52) and press **SET/ OK**.

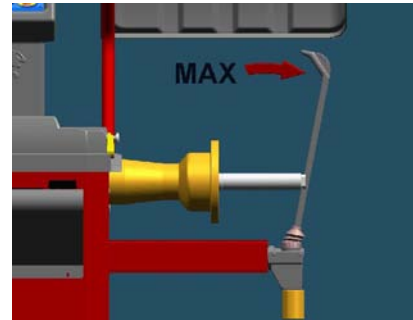


Fig. 53

Put the rod (fig. 53) and press **SET/OK**.

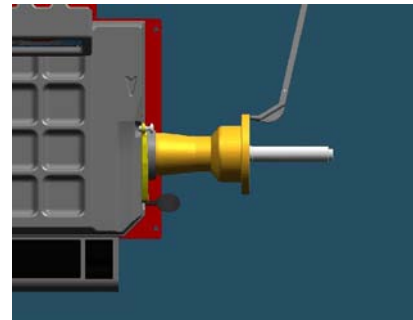


Fig. 54

Press **<ESC>** to go back to standard use.

7 MEASUREMENT AND CORRECTION OF UMBALANCE

7.1 Placing the wheel rim on the wheel balancer

7.1.1 Select the cone or flange suitable for the wheel to be balanced. Specific mounting instructions are delivered with each flange



NOTE: *the operation of centering and tightening of the wheel on the flanges is of basic importance for correct balancing. Good results depend on proper performance of these procedures. To accurately clean up the superficial ones of connection before whichever operation.*

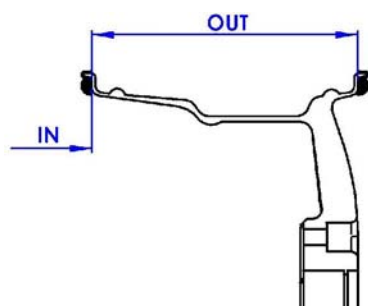


CAUTION: *Always make sure flanges are correctly locked on the motor shaft and wheel is correctly locked on the flange being used.*

7.2 Input of Rim Dimensions (external measuring system version) for V65x, V64x, V55x-D (automatic input of all data)



NOTE: AUTOSELECT function admit to choose automatic selection of balancing system (Dynamic, ALU-S1, ALU-S2)



MAIN MENU

Insert the distance (fig.55).

Insert the width (fig.56).

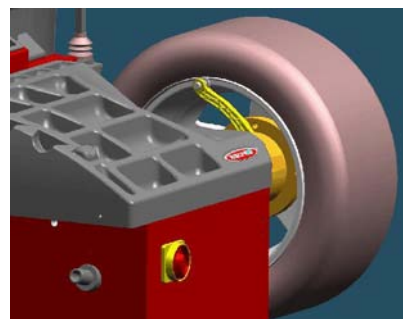


Fig. 56: Distance

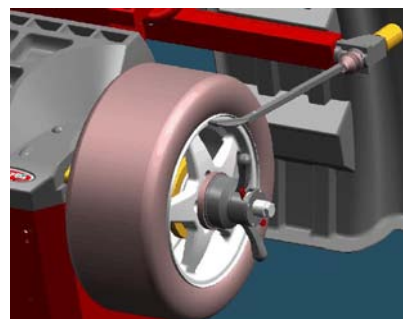
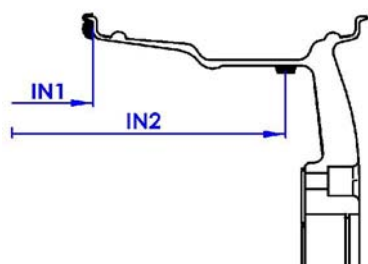


Fig. 57: Width

7.3 Input of Rim Dimensions (ALU-SE or LASER version)



CAUTION: *Laser installed on wheel balancer is of class 2, so special protection are not required. It is however recommended to avoid the continuous view of the direct beam.*



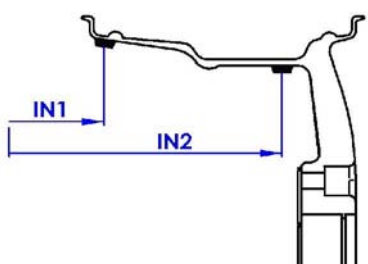
MAIN MENU > INPUT

Press **ALU MODE** until the required position of weight is on the video (fig.57).

Insert the distance (IN1).

Insert the distance (IN2).

Fig. 58



Press **ALU MODE** until the required position of weight is on the video (fig.58).

Insert the distance (IN1).

Insert the distance (IN2).

Fig. 59

7.4 Detecting and correcting unbalance

7.4.1 After setting wheel dimensions, press **<START>** or close the safety cover to spin the wheel and start the measurement run.



CAUTION: *wheel start automatically when safety cover is closed.*

7.4.2 At the end of the spin the wheel will brake automatically and the display will show the weight position and weight requirement to correct the wheel's unbalance.

7.4.3 Apply the weights (fig.59, fig.60). If unbalance shown is 0, press **<FINE>** to show residual unbalance.



Fig. 60



Fig. 61

7.5 How to apply the weight using ALU-SE applicator



Fig. 62

Place the weight as in the picture 62.

Turn the wheel until reach the application position of the weight (fig. 61).

Move the rod until reach the application position of the weight.

Apply the weight (fig. 63).

Repeat the procedure for the other side.

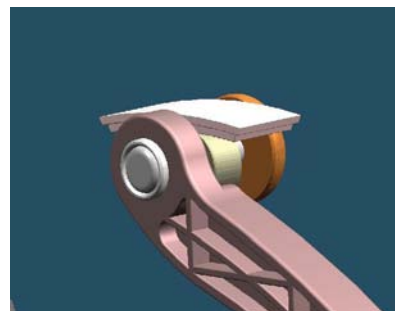


Fig. 63

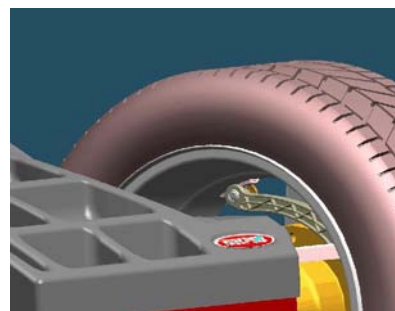


Fig. 64

7.6 How to apply the weight using LASER



Fig. 65

Turn the wheel until the position weight indicators of one side are both green (fig. 64).

The laser come out to show the point of application of the weight (fig. 65).

Apply the weight on the laser dot.

Repeat the procedure for the other side.

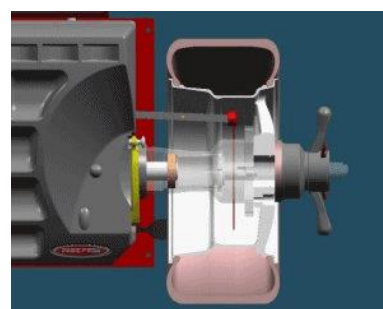


Fig. 66

7.7 How to use SPLIT Program

After the measurement spin

Press **<SPLIT>** to select the program.

Turn the wheel until first spoke (green position) is at 12 o'clock.

Press **<SET/OK>** to confirm.

Turn the wheel until second spoke (red position) is at 12 o'clock

Press **<SET/OK>** to confirm the red position.

Balance the wheel applying weight on green and red positions.

8 HOW TO OPTIMIZE UNBALANCE OF THE WHEEL

8.1.1 MAIN MENU > OPTIMIZE

Measure the unbalance of the rim only (fig. 66).

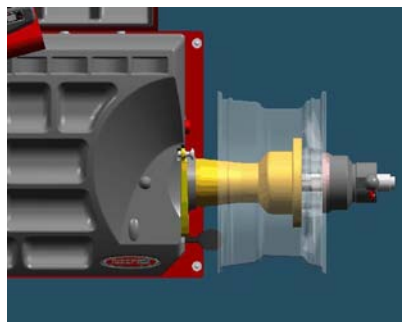


Fig. 67 first spin, rim only

Mount the tire on the rim and put the wheel on the shaft (fig.67).

Spin the wheel

Select the optimization and follow the video instruction.

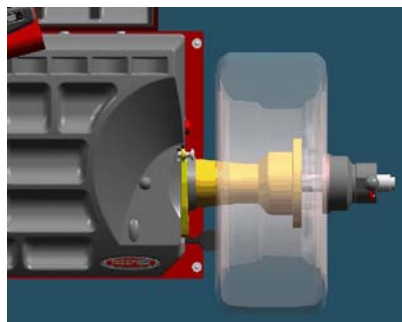


Fig. 68 second spin, complete wheel



WARNING: *Balancing with flanges, put the accessories assembled to the rim during the complete operations.*



NOTE: *Selection of optimization: the green solution is the advised from the machine. The user can be choose also one of the other.*

9 SPECIAL FUNCTIONS

9.1 Language selection

- 9.1.1 MAIN MENU >SET UP > USER SET UP > LANGUAGE > SET OK >.
- 9.1.2 Select the language and press SET OK.

9.2 Setup

- 9.2.1 MAIN MENU >SET UP > USER SET UP .
- 9.2.2 Select item and press SET OK.

APPENDIX

A: Technical data

Power requirement	400W		
Speed Balancing	98RPM		
Measuring time	4-15 s.		
Accuracy	±1grammo (±1/28 once)		
Wheel Dimensions	Diameter	Rim diameter	8" (200 mm) - 26" (650 mm)
		Rim Width (with wheel-guard)	max 16" (415mm)
		Wheel Weight	max 90 Kg (198Lbs)

Wheel balancer dimensions

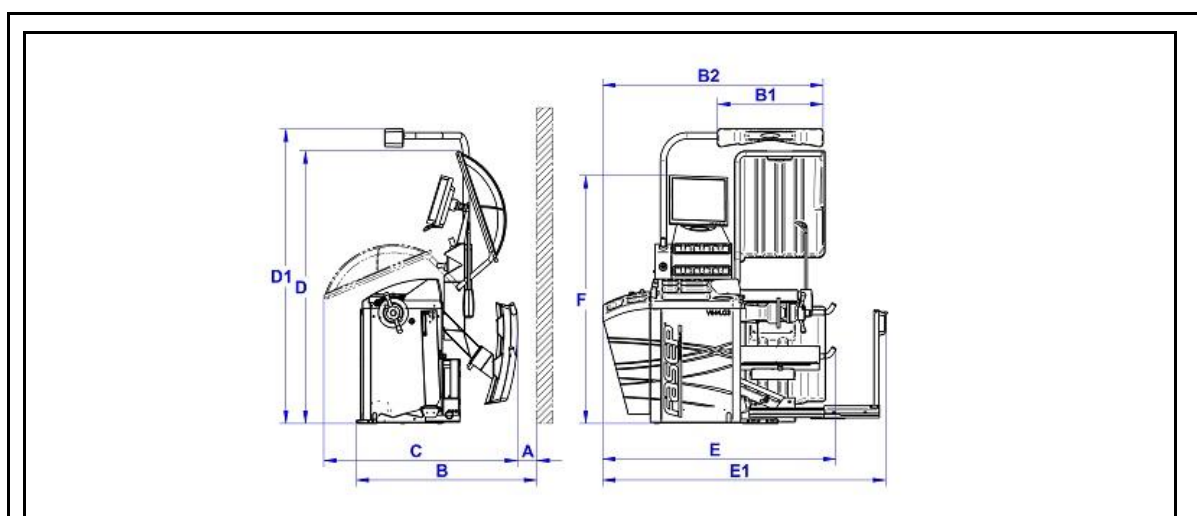


Fig. 69: Measures

A = 300 mm	
B = 1150 mm	
B1 = 670 mm	
B2 = 1400 mm	
C = 1230 mm	
D = 1730 mm	
D1 = 1870 mm	
E = 1480 mm	
E1 = 1800 mm	
F = 1580 mm	

B: Environmental Data, Safety Features and Requirements

Environmental Data

[Operating conditions]

This unit is designed for indoor use only.

Temperature: 0 to 45°C

Relative Humidity: 5 to 80% a 40°

[Storage conditions]

Package is designed for indoor storage only.

Temperature: -25° to 70°C

Relative humidity: 5 at 95% to 40°C

Safety Features

1. The Balance Weights Holder may be removed for servicing. It is secured to the machine body through screws so that only voluntarily it may be removed. Removal of this protection is therefore restricted to Authorized Service Engineers.
2. The Control Panel may be removed for servicing. It is secured to the machine body through screws so that only voluntarily it may be removed. Removal of this protection is therefore restricted to Authorized Service Engineers.



CAUTION:

The safety cover is anyway required when using the motorcycle adapter.



WARNING

FASEP 2000 srl shall not be responsible for any inconvenience, breakdown, accidents caused directly or indirectly by unauthorized service. Service to any parts by unauthorized engineers will void warranty and will any right of the owner of the unit..



NOTE:

As this unit runs at speed below 100rpm, a safety cover is not required. However a safety cover is recommended when balancing wheels with diameter bigger than 20".

General Safety Requirement

[before using/servicing this unit]

1. Read this instruction sheet and the whole user's manual before operating or servicing the wheel balancer.
 2. Make sure electrical power source conforms to requirements shown on nameplate (see also model identification chart for reference).
 3. Make sure the unit has a stable position.
- [when using the unit]*
4. Protect power leading to the unit from damage.
 5. When work area is being washed, make sure unit is adequately protected.
 6. Remove all stones and mud lodged in tire treads before balancing the wheel.
 7. Do not touch spinning wheel. Always use Safety Safety cover to be protected.
 8. Make sure counterweights are securely attached before checking residual imbalance.
- [when servicing the unit]*
9. Make sure power sources are disconnected before service on the unit is performed.
 10. Service to PCB, electrical and mechanical parts should be done only by an Authorized FASEP 2000 Service Center.

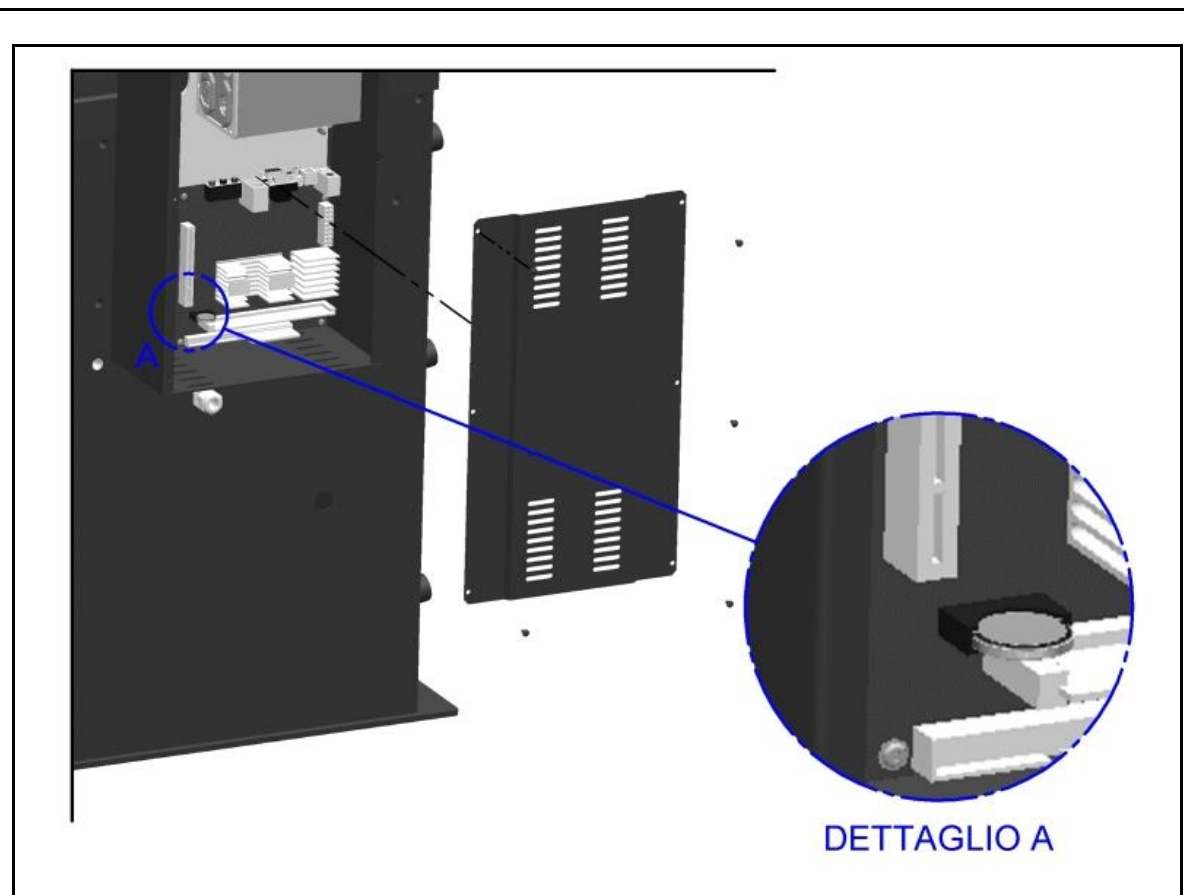
C: Errors and Malfunctions recognized by the Computer

Errors may apply to some model only.

ERR 1: Shaft does not rotate	ERR 16: Calibration memory error
ERR 2: Rotation Direction is wrong	ERR 17: Rod in uncorrect position
ERR 3: Rotation speed is not ready	ERR 18: Excessive weight detected
ERR 4: Rotation speed is wrong (too low or too high)	ERR 19: Reserved
ERR 5: Position Sensor or Position Disk failure	ERR 20: Reserved
ERR 6: Safety Safety cover is open	ERR 21: Error in inputting data
ERR 7: Measuring cycle was interrupted	ERR 22: Brake error
ERR 8: Calibration weight was not inserted.	ERR 23: Substance change due to shakes
ERR 9: Activation code not correct	ERR 24: Reserved
ERR 10: Overflow in calculations	ERR 25: Reserved
ERR 11: Serial number is wrong	ERR 26: Reserved
ERR 12: Serial number not inserted	ERR 27: Insufficient pressure
ERR 13: Reserved	
ERR 14: Uncorrect password	
ERR 15: E ² prom error	

D: How to remove the battery from the product safely.

To remove the battery please follow the instructions on the following image



In the balancer is included n.1 battery lithium 3V 200mAh



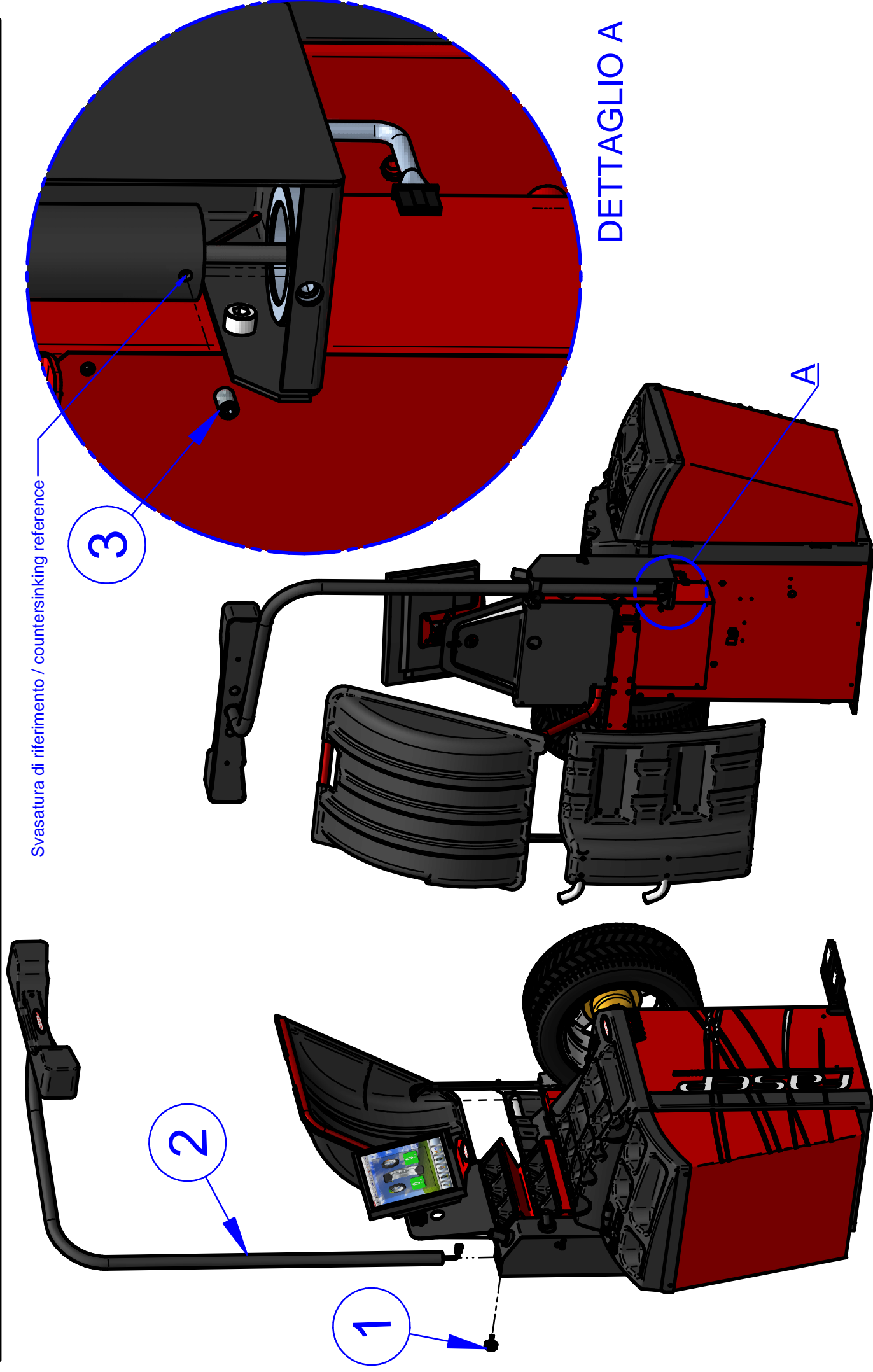
Disposal of waste batteries (applicable in the European Union and other European countries with separate collection systems)

This symbol on the battery or on the packaging indicates that the battery provided with this product shall not be treated as household waste. By ensuring these batteries are disposed of correctly, you will help prevent potentially negative consequences for the environment and human health which could otherwise be caused by inappropriate waste handling of the battery. The recycling of the materials will help to conserve natural resources.

In case of products that for safety, performance or data integrity reasons require a permanent connection with an incorporated battery, this battery should be replaced by qualified service staff only. To ensure that the battery will be treated properly, hand over the product at end-of-life to the applicable collection point for the recycling of electrical and electronic equipment.

Hand the battery over to the applicable collection point for the recycling of waste batteries.

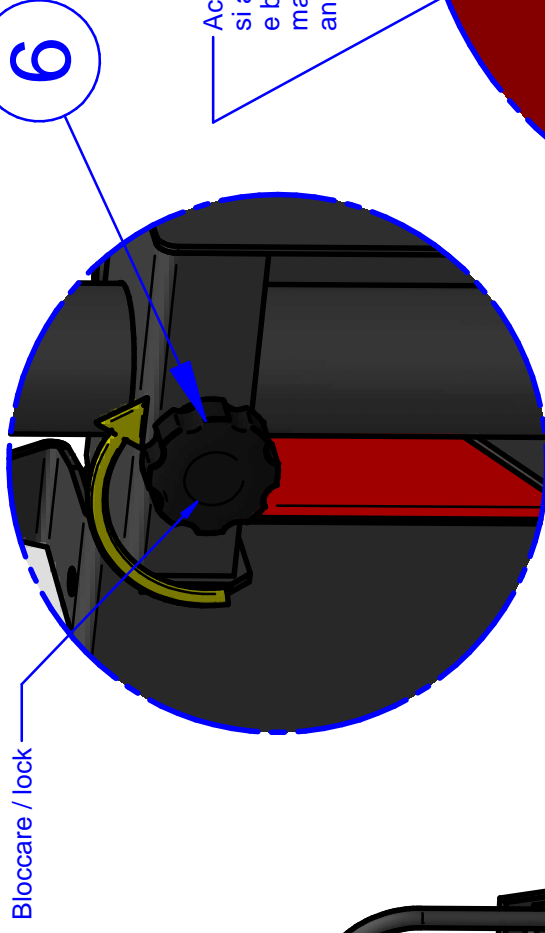
For more detailed information about recycling of this product or battery, please contact your local Civic Office or your household waste disposal service.



Svasatura di riferimento / countersinking reference

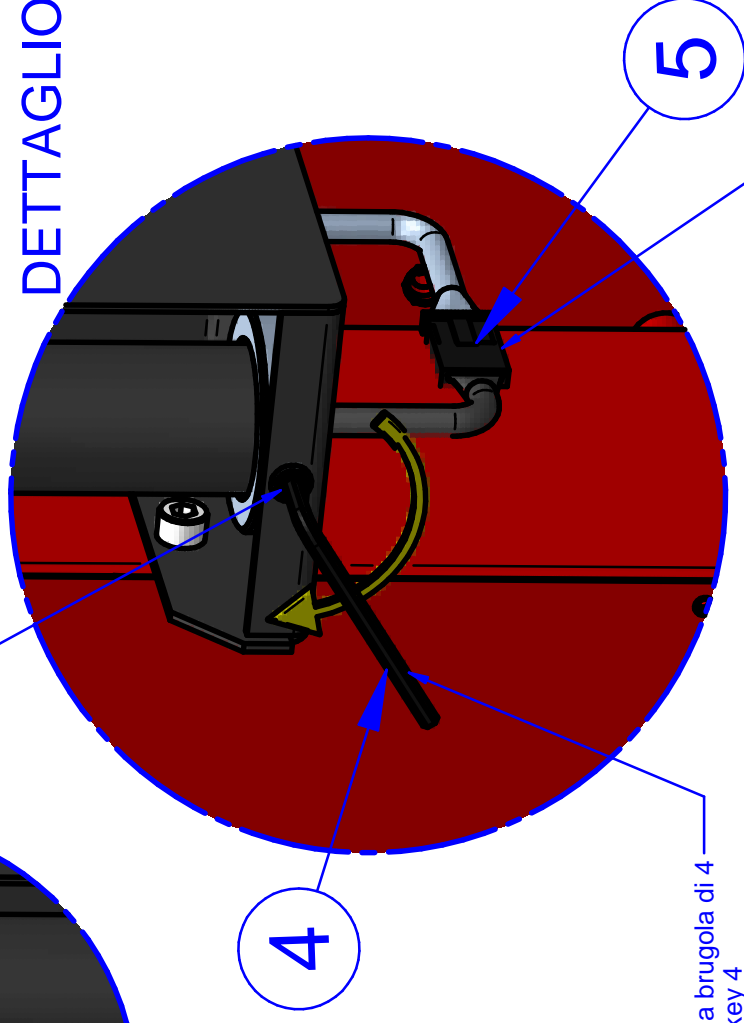
DETTAGLIO A

DETTAGLIO B



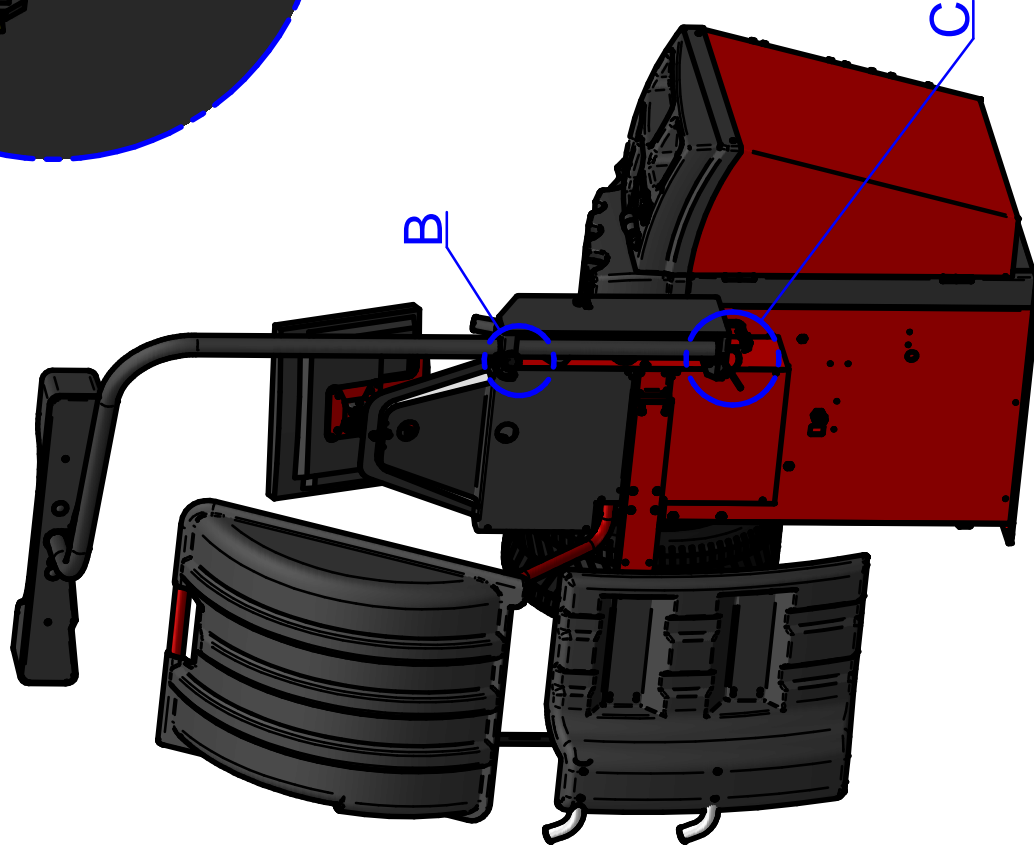
Accertarsi che la punta del grano
si accoppi con la svasatura sul tubo
e bloccare / Make sure the tip of the sceew
mate with the flare on the tube
and block

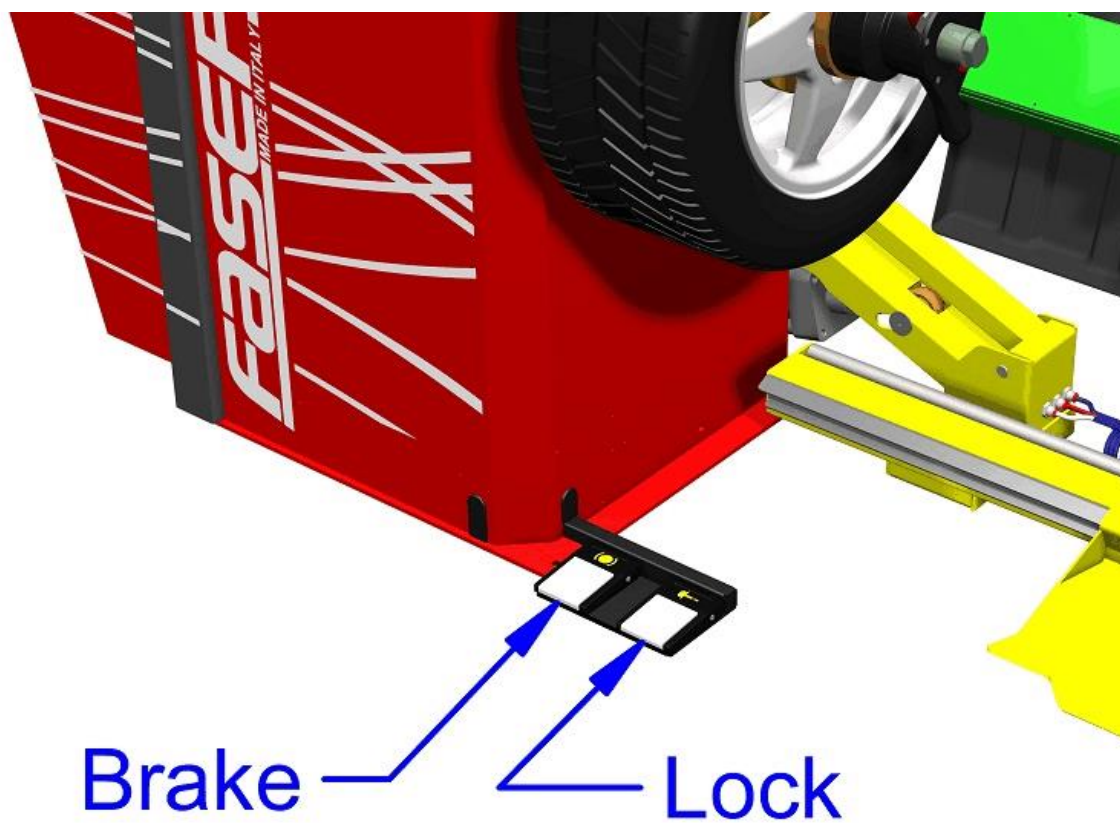
DETTAGLIO C



Chiave a brugola di 4
/ Allen key 4

Connettere il cavo / connect the cable





Attenzione !

Nella movimentazione della macchina attenzione a non danneggiare la pedaliera

Warning!

In the handling of the machine care not to damage the pedals