VIDEOTRONIC V688.G3
USER'S MANUAL

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WARNING

.FASEP 2000 srl reserves the right to revise products firmware, software or documentation without obligation to notify any person or organization. The information contained in this document is subject to change without warning.

.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 raccomendations 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, evidence d 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

TABLE OF CONTENTS

1 PRESENTATION

1.0 Intended Use

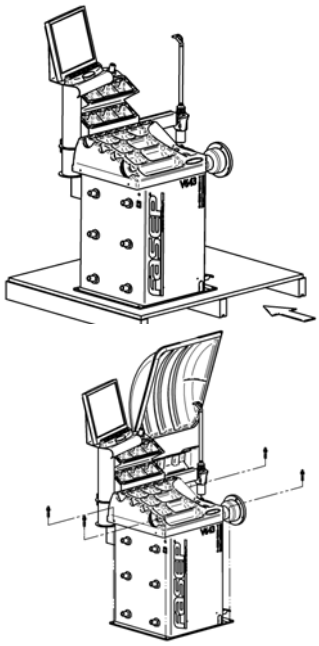
This unit is designed to measure and correct static and dynamic unbalance of vehicle wheel, the dimension and weight of which are within the working range of the machine (see "Technical Data"appendix for reference)
This unit is meant for a professional use. Operator shall be properly trained before use. 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 neighboorhood.*

1.1 Definitions

1. Monitor
2. Back-mounted weight-compartments
3. Weights and tools trays
4. Side flange-holders
5. Wheel guard
6. UL 3D Automatic Input Sonar
7. Quick lock + HD shaft
8. 3dWall
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) until it light up. To switch off the wheel balancer press the red button (power) until 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. 8

APS Function

Fig. 9

Calibration

Fig. 10

Delete last character in input activation code

Fig. 11

Change selection

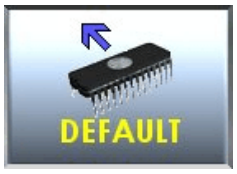


Fig. 12

Set default values

Fig. 13

Diagnostic

Fig. 14

Key down

Fig. 15

Position calibration

Fig. 16

Go to previous page

Fig. 17

Fine resolution

Fig. 18

Access to Information center

Fig. 19

Access to page measures

Fig. 20

Laser calibration

Fig. 21

Put in the rod laser in rest position

Fig. 22

Start laser

Fig. 23

Extract fully rod laser

Fig. 24

Manul input measures

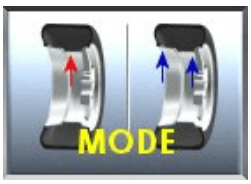


Fig. 25

Set Dynamic/Static

Fig. 26

Mode moto

Fig. 27

Key SET/OK

Fig. 28

Double operator

Fig. 29

Optimize

Fig. 30

Restart software

Fig. 31

Reset partial statistics

Fig. 32

Reset variation in page Sensor

Fig. 33

Save

Fig. 34

Set measures

Fig. 35

Go to setup menù

Fig. 36

Skip current operation

Fig. 37

Split function

Fig. 38

Stop turning wheel

Fig. 39

Key up

Fig. 40

View menù and selection (UP/DOWN)

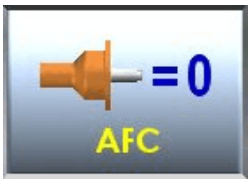


Fig. 41

Automatic flange calibration

4.0 CALIBRATION OF WHEEL BALANCER

4.1 How to calibrate the wheel balancer (USER)

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. 43)

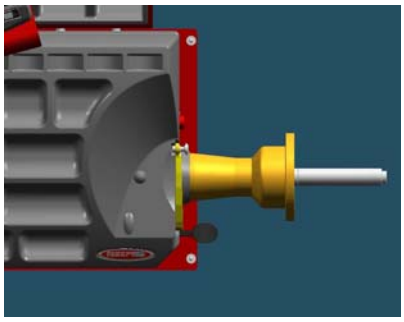


Fig. 43

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

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

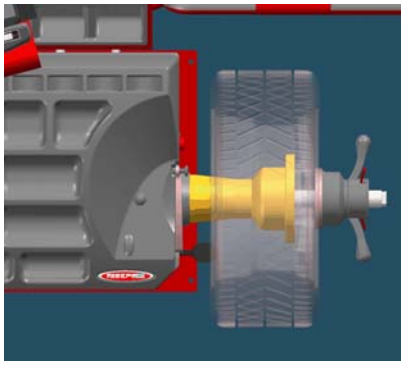


Fig. 44

At the end of the spin, put the calibration weight (Fig. 45) and close the wheel guard or press **<START>**.

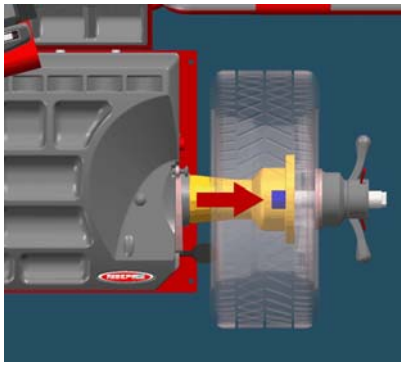


Fig. 45

NOTE *technical calibration is only available for qualified personnel.*

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

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.47).

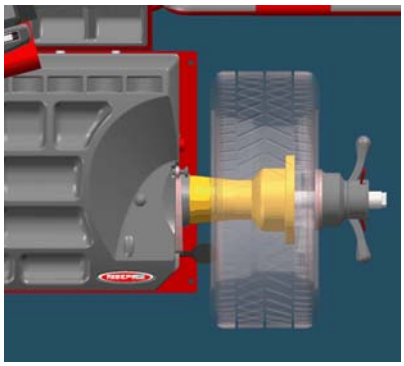


Fig. 47

Put the calibration weight (Fig.48) 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).

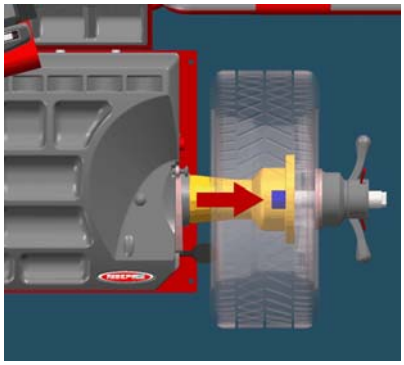


Fig. 48

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>**.

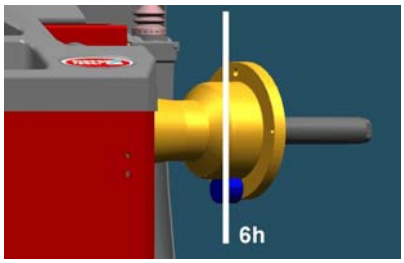


Fig. 49

NOTE *technical calibration is only available for qualified personnel.*

5 Calibration ALU-SE

Switch on the wheel balancer.

MAIN MENU > MENU > RESET > **CALIB** > **ALU-SE CALIBRATION** > **SET/OK**

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

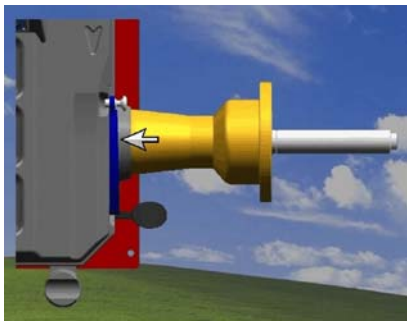


Fig. 50

Put the rod on the flange (fig.51) and press **SET/ OK.**

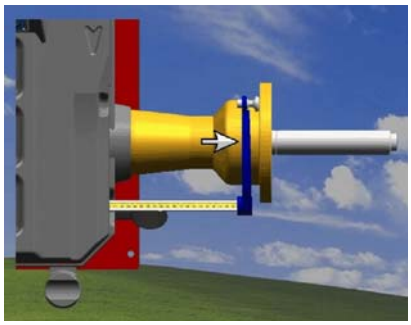


Fig. 51

Select width of wheel

Put the rod on internal side of the rim (fig.52) and press **SET/OK.**

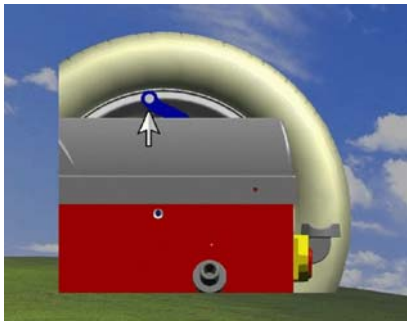


Fig. 52

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**

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

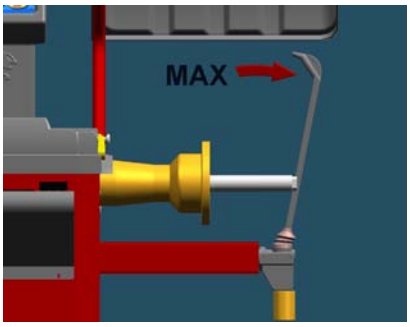


Fig. 53

Put the rod (fig. 54) and press **SET/OK.**

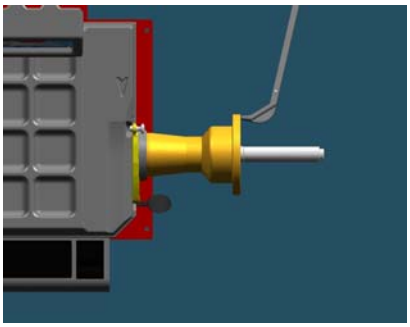


Fig. 54

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

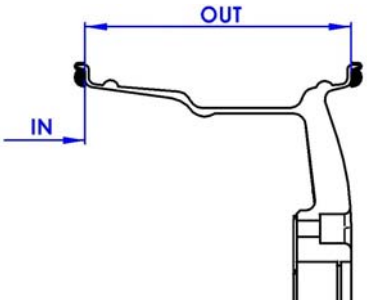
NOTE: *the operation of centering and tightening of the wheel on the flanges is of basic importance for correct balancing. Good results depend on proper performance of these procedures.*
To accurately clean up the superficial ones of connection before whichever operation.

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.56).

Insert the width (fig.57).

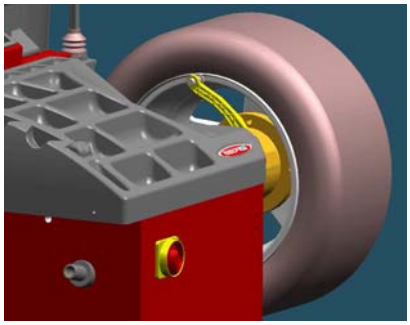


Fig. 56: Distance

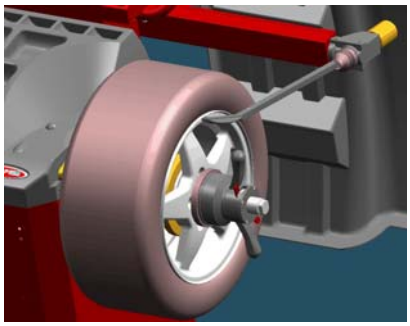


Fig. 57: Width

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 continuos view of the direct beam.*

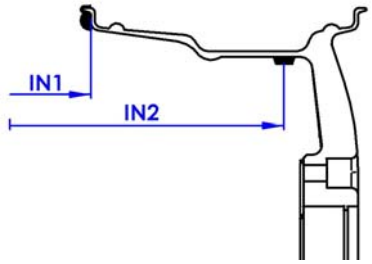


Fig. 58

MAIN MENU > INPUT

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

Insert the distance (IN1).

Insert the distance (IN2).

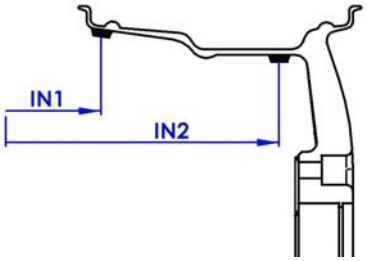


Fig. 59

Press **ALU MODE** untill the required position of weight is on the video (fig.59).

Insert the distance (IN1).

Insert the distance (IN2).

7.4 Detecting and correcting umbalance

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 umbalance.

7.4.3 Apply the weights (fig.60, fig.61). If umbalance shown is 0, press **<FINE>** to show residual umbalance.

Fig. 60

Fig. 61

7.5 How to apply the weight using ALU-SE applicator

Fig. 62

Place the weight as in the picture 63.

Turn the wheel until reach the application position of the weight (fig. 62).

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

Apply the weight(fig. 64).

Repeat the procedure for the other side.
.

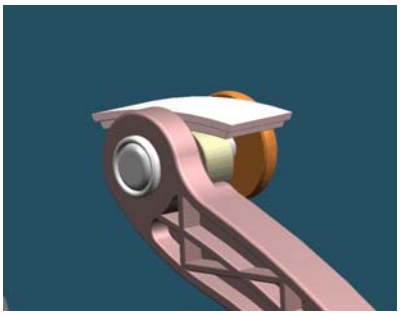


Fig. 63

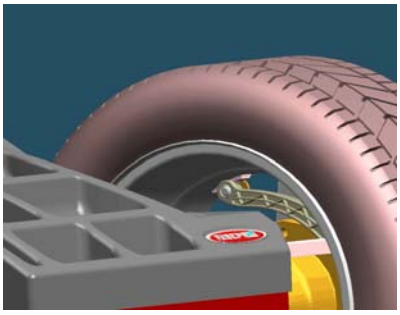


Fig. 64

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. 65).

The laser come out to show the point of application of the weight (fig. 66).

Apply the weight on the laser dot.

Repeat the procedure for the other side.

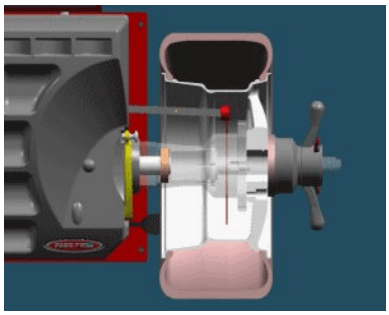


Fig. 66

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 0' 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. 67).

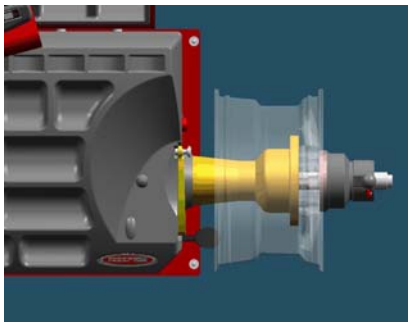


Fig. 67 first spin, rim only

Mount the tire on the rim and put the wheel on the shaft (fig.68).

Spin the wheel

Select the optimization and follow the video instruction.

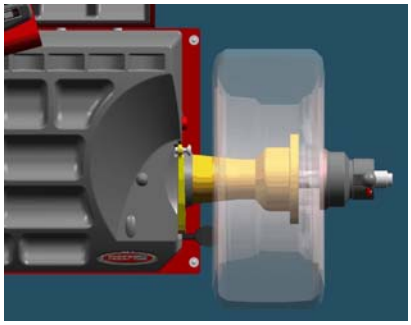


Fig. 68 second spin, complete wheel

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 .

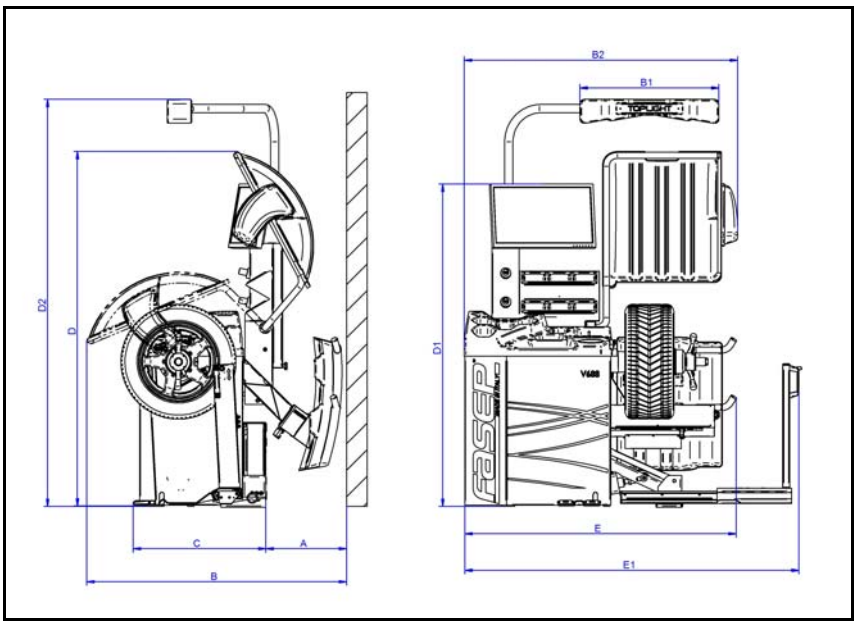
9.2.2 Select item and press SET OK.

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



Dimensioni V688.G3	
A	390
B	1250
B1	670
B2	1320
C	640
D	1710
D1	1560
D2	1970
E	1310
E1	1610
Dim Imballo	123x103x164 (cm)
Peso Lordo	170 Kg
Peso netto	140 Kg

Fig. 69: Measures

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% to40°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 recomended when balancing wheels with diameter bigger then 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 umbalance.

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

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

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.