



**OPERATION MANUAL AND PART LIST
VIBRATING BEAM / BULLFLOAT TYPE
EZ-Screed**



From 17-06-2013

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MADE IN EUROPEAN UNION



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1. Preface

This manual has been written to help you operate and maintain the EZ-Screed safely. This manual is intended for dealers and operators of EZ-Screed and contains useful instructions for use, maintenance and repair. These instructions need to be respected and followed.

Guarantee provisions

All damage to parts of this machine, occurring within 12 months after date of purchase as a consequence of material, production or construction defects, will be replaced by the manufacturer as soon as possible.

The manufacturer declines all responsibility for unsafe situations, accidents and damage caused by:

- Ignoring safety and using instructions as described on the machine or the instruction manual.
- Incompetent or incorrect maintenance
- Use of the machine by unqualified personnel (employees who are unfamiliar with the content of this instruction manual).
- Storing the machine in a damp place.
- Other use than the prescribed use.
- Cleaning of the machine with a high pressure cleaner or by a water jet under high pressure.
- Alternations of the machine carried out by other than manufacturer. This also includes assembling of non-original parts.

Guarantee certificate

EZ-Screed nr: _____

Date of purchase: _____

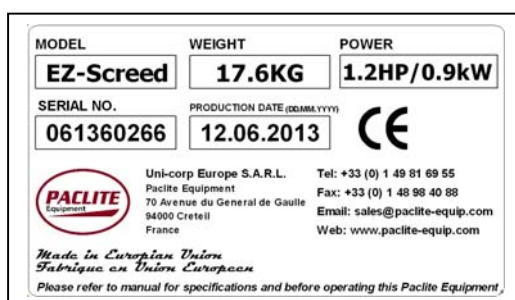


Fig 1: Ratingplate EZ-Screed

The ratingplate can be found on the operating handle (under).

2. Introduction

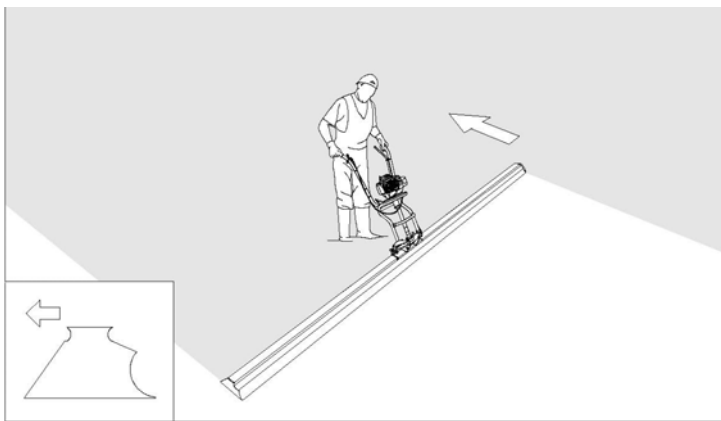
Intended use

The EZ-Screed uses a unique reversible blade design which can be used for standard form- to form screeding or wet screeding. It is supplied in 2 components: the blade profile and the power unit. The power-unit consists of a twin handle between which the petrol engine is located. The engine drives, by means of a flexible shaft, the vibrator which is adjustable in 3 positions. The power-unit is equipped with a quick disconnect system, which allows attachment of various blade widths within minutes. With the vibrating alum. profile of the EZ-Screed the top layer of freshly poured concrete is compacted, levelled and smoothed in one operation.

Working

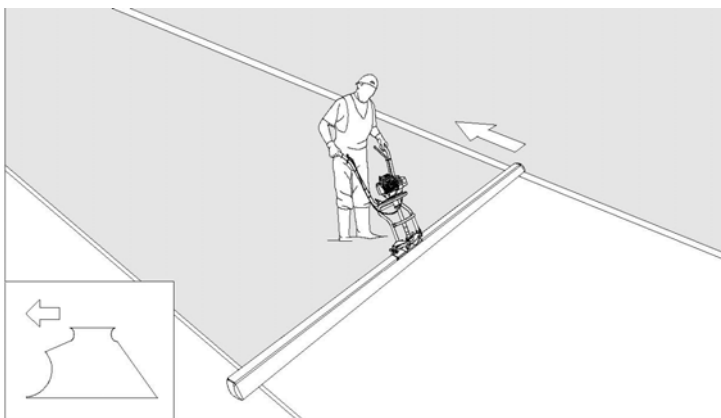
The drive-unit of the EZ-Screed (Petrol engine) is started by pulling the recoil-starter of the engine. The vibrating blade of the EZ-Screed compacts, levels and smoothens freshly poured concrete in one operation.

The EZ-Screed features a dualpurpose blade and can be used for form-to-form screeding or for wet screeding. By rotating the power-unit 180 degrees the operator can choose between screeding, using forms/rails, or wet screeding (see figures 2 and 3)



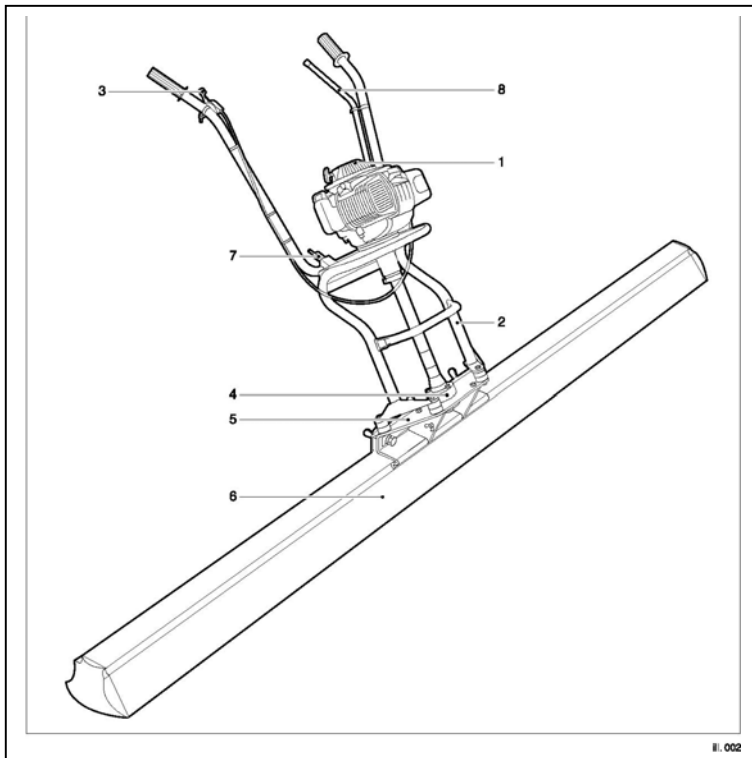
II. 004

Fig. 2 The EZ-Screed in action as a wet screeder (wet screeding side in direction of arrow)



II. 003

Fig. 3 The EZ-Screed in action as a form to form screeder (cutting side in direction of arrow)



1. Petrol engine
2. Operating handle
3. throttle and cable
4. Vibrator
5. Quick (dis)connection system
6. Aluminium blade
7. Lock, adjustable control handle

Fig. 4: overview important components

3. Technical specifications

Technical data

| TYPE | ALU BLADE LENGTH | DRIVE UNIT | CAPACITY | WEIGHT DRIVE UNIT |
|----------------------------|---------------------------------------------------------|-------------------------------------------------------------|---------------|-------------------|
| EZ-Screed Standard | 1,5 – 1,9 – 2,5 -3,0 -3,75 – 4,25 – 5,0 – 5,5* – 6,0* m | Honda GX – 35 4-stroke petrol engine, App. 5.500 tpm, | 1,2 kW/1,6 HP | App. 12 kg. |
| EZ-Screed lightweight (LW) | 1,54 – 1,83 – 2,44 – 3,05 – 3,66 – 4,27 – 4,88 m | flexibele shaft drive | | |

Table 1: Types of EZ-Screed

* Use 2 vibrating units when working with 5,5 (18ft) and 6 mtr. (20ft) blades.

Sealing : IP 54, splashproof

Execution : Portable
 Dimensions : Depending on the execution
 Fuel : Euro unleaded (no fuelmix).

| SYSTEM PROCESS | CONCRETE COMPACTION AND FINISHING |
|---------------------------|-------------------------------------------------------------------------------------------------------------|
| Process | Generating mechanical vibrations via petrol engine |
| Noise production | In open air max. 50 db (A) |
| Vibration acceleration XX | 5,39 m/s ² ISO 5349 |
| Maintenance | Cleaner; Water (brush) |
| Power consumption | See technical specifications |
| Working area | Portable execution Total incl. vibrating unit max.: 600 x 45 x 100 cms |
| System weight | Operating unit with petrol engine: 12 Kg. Blade standard: 4,6 kg per meter Blade LW: 3,0 kg per meter |

Table 2: Technical data

4. Safety

Explanation of the used safety symbols

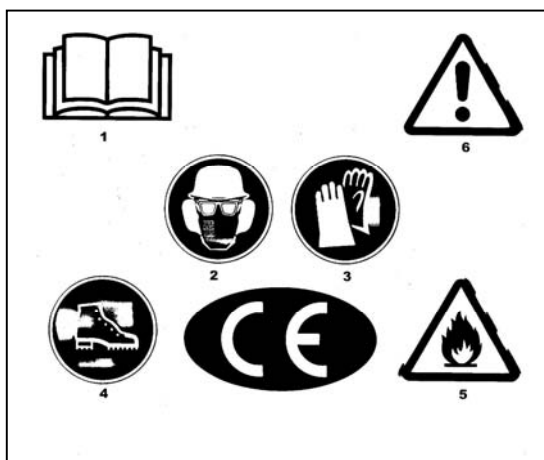


Fig. 5: safety symbols

1. Read the instruction manual before using the machine.
2. Safety glasses, safety helmet and ear protection compulsory.
3. Working gloves compulsory.
4. Safety shoes with extra protection compulsory.
5. Inflammable material.
6. Be careful

ENSURE, THAT ALL SYMBOLS ON THE MACHINE, CAN ALWAYS BE CLEARLY READ.

4.1. Safety aspects

The following safety aspects apply to the machine:

- Safety symbols are present on the EZ-Screed



4.2. Safety precautions

- Always read the necessary instructions in the manual. If the safety aspects are not clear to you, then ask the manufacturer for an explanation.
- Ensure that you are qualified (familiar with the contents of this manual), to operate and carry out light maintenance-work to the machine when you are operating the machine for the first time.
- Regular maintenance improves safe operation of the EZ-Screed.
- Wear a safety helmet, safety glasses, working gloves, which do not conduct electricity and protective clothing.
- On working areas, take notice and follow general and local safety regulations. Before starting your work, make sure that you are informed about all safety regulations and instructions.

The following safety-aspects specifically apply to those Paclite products which are equipped with a petrol engine.

- When the machine is not being used for longer periods of time, then it must be stored in a dry and clean area.
- Make sure that there is sufficient ventilation in spaces which are surrounded by walls.
- Never inhale exhaust gasses, they can damage your health and that of your colleagues.
- To avoid getting an electric shock, do not touch the high-tension cable or spark plug cap while the engine is running.
- Check for fuel leaks before running the machine.
- Do wear working-gloves, safety glasses and protecting clothing during refilling of fuel.
- Make sure that there is sufficient ventilation during refilling fuel.
- Refilling fuel is only allowed after the engine has been cooled off sufficiently.
- Refilling fuel while the engine is hot, might lead to a very dangerous situation
- Refilling fuel is prohibited in the direct vicinity of open fire, burning cigarettes, a heat source and in explosion dangerous areas.
- Do not smoke during refilling fuel.

5. Use

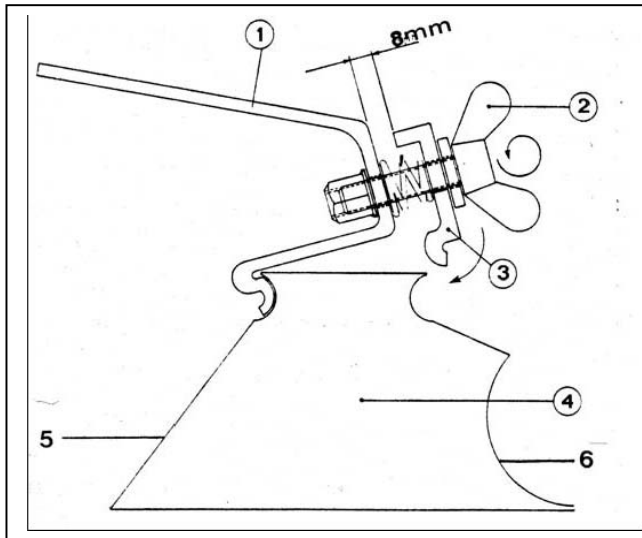
READ THE MANUAL CAREFULLY BEFORE USE. IF ASPECTS ARE NOT CLEAR TO YOU, CONTACT YOUR DEALER OF THE SUPPLIER.

For the location and description of the EZ-Screed's parts, which are mentioned in the text, we refer to the illustration figure 4 in this manual.

5.1. Assembling the EZ-Screed

- a) First determine whether you want to use the EZ-Screed as a form-to-form screeder or as a wet screeder.
- b) EZ-Screed is supplied in 2 components: the power-unit and the blade profile.
- c) The power-unit is equipped with a quick connection system, for easy mounting of the power-unit onto the blade profile.
- d) To connect the power-unit to the blade profile loosen the 3 wingbolts about 8mm. until the front clamping plate no. 3 fits into the collar of the profile. (see figure 6). Now tighten the 3 wingbolts no.2. Careful: Make sure that the unit is mounted between the 2 indication arrows, located on the blade.
- e) Now unfold the twin control handle, adjust it to the proper height, and tighten the 2 clamps.

- f) Make sure that the EZ-Screed is properly assembled and that the ON-OFF switch is in the ON position. Make sure that the fuel tank is filled (NO FUEL MIX).
- g) In case the EZ-Screed is used for form-to-form screeding make sure that the rail supports are set to the right level.



1. Big retainer plate
2. Wingbolt
3. Small retainer plate
4. Blade profile
5. wet screed side
6. Form-to-form screed side

Fig. 6 Quick connection system

5.2 Operation and use of EZ-Screed.

- 1) Place the EZ-Screed profile on the rail supports or in case you want to use the EZ-Screed as a wet screed, directly on the freshly poured concrete surface. Careful: before starting the petrol engine read the enclosed operation instructions carefully. Make sure before starting that the ON-OFF switch is in the ON position!
- 2) Now start the engine. Use the throttle handle to adjust the desired engine speed. After setting the engine speed start moving the EZ-Screed backwards, the travelspeed depends on the consistency of the concrete.
- 3) If the EZ-Screed vibrates too strongly the centrifugal force needs to be reduced. This is done by first removing the vibrator's protection cover and then adjusting the excentrical weights to a lower centrifugal force. (See figure 7). A well adjusted screeder will create a smooth and shining surface.
- 4) After the job is finished, remove the EZ-Screed from the concrete lane and switch off the petrol engine.
- 5) After use, clean the EZ-Screed according to the instructions described in chapter 6 of this manual. Place the EZ-Screed on a dry, clean and stable surface.
- 6) If you do not expect to use the engine for a long period of time the fuel tank needs to be empty. Start the engine and let the engine run at idle speed until the fuel in the carburettor is used and the engine stops.

Please observe the following instructions:

- a) make sure to refill the fuel tank in time. Do not let the engine run until all the fuel is used. This might cause starting problems.
- b) prevent the EZ-Screed of sinking into the concrete. After the engine has been switched on, immediately move the EZ-Screed backwards.

- c) When using a low slump concrete, move the EZ-Screed slowly across the surface of the concrete. When using a high slump concrete, move the EZ-Screed faster across the surface of the concrete.
- d) In case the EZ-Screed is used as a wet screed it is recommended to first compact the freshly poured concrete with a poker vibrator while at the same time the height of the floor is set by means of a laser device. Then finish the floor with the EZ-Screed, of which the vibrating profile compacts the top layer.

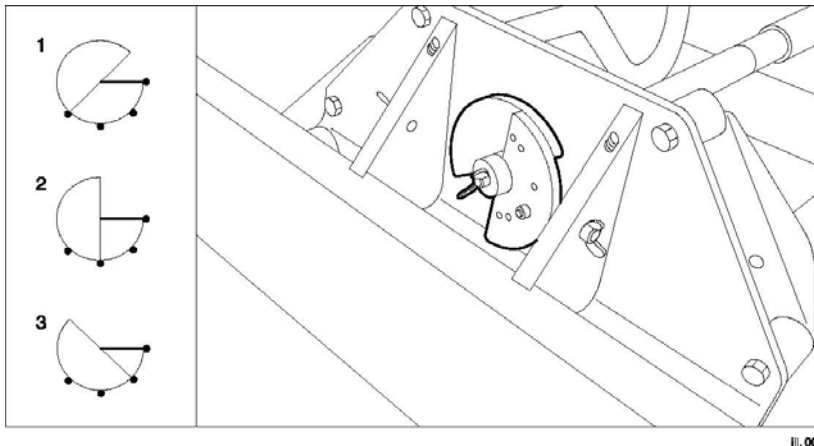


Fig. 7: Various positions of the vibrator.

Adjusting the centrifugal force:

CAREFUL: SWITCH OF THE ENGINE FIRST!

- a) Remove the protecting cover of the vibrator by loosening the springknob.
- b) Now loosen the wingbolt of the vibrator and adjust the vibrator in accordance with the indicated positions in the drawing. Retighten the wingbolt and refix the protection cover.

Setting range of the vibrator:

For light weight blades (LW), always use position1!










| feet = meter | pos-excenter | 1 | 2 | 3 |
|--------------|--------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|
| 5 = 1,50 | 1 |  |  |  |
| 6 = 1,90 | 1 | | | |
| 8 = 2,50 | 1 | | | |
| 10 = 3 | 1 |  |  |  |
| 12 = 3,75 | 2 | | | |
| 14 = 4,25 | 2 | | | |
| 16 = 5 | 3 |  |  |  |
| 18 = 5,50 | 3 | | | |
| 20 = 6 | 3 | | | |

Fig. 8: various setting positions of the vibrator

6. Maintenance

Although this machine has a few moving parts, regular maintenance promotes a long and trouble-free life.

6.1. Maintenance

ONLY QUALIFIED PERSONNEL, FAMILIAR WITH THE CONTENTS OF THIS OPERATION MANUAL, ARE ALLOWED TO CARRY OUT MAINTENANCE AND REPAIR JOBS TO THE EZ-SCREED.

- It is recommended to spray the aluminum profile and quick connector prior to operation, with a high quality form oil. (See figure 7.0)
- Clean the quick connection and blade on a daily basis.
- After use store the EZ-Screed in a clean, dry and dustfree place.

ATTENTION: CONCRETE REMNANTS COULD DAMAGE THE QUICK CONNECTION. REMOVE CONCRETE REMNANTS FROM THE BLADE AND CONNECTION SYSTEM BEFORE THEY HARDEN OUT. THEY COULD EASILY INJURE THE OPERATOR.

WARNING: DO NOT CLEAN THE EZ-SCREED WITH A HIGH PRESSURE CLEANER.

6.2 Cleaning and maintenance of the EZ-Screed with Petrol engine.

Daily maintenance:

In order to achieve a maximum cooling effect the ventilation openings must stay free from dirt, grease and concrete. Check them at the end of each working day. If necessary clean them with a brush or a damp cloth.

TIP: FOR DETAILED SERVICING INSTRUCTIONS PLEASE READ THE OPERATION INSTRUCTIONS SUPPLIED BY THE MANUFACTURER OF THE HONDA PETROL ENGINE.

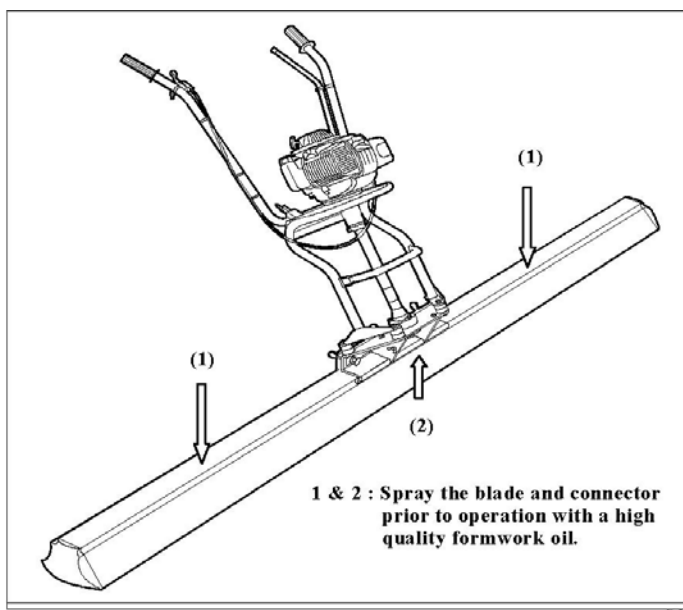


Fig. 9: Blade and connection system to be sprayed with formwork oil.



7. Troubleshooting, repairs

The table below shows the most occurring problems, causes and solutions:

| PROBLEM | CAUSE | SOLUTION |
|------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| The EZ-Screed, used as a form-to-form screeder, vibrates too powerful and does not travel smoothly across the rail supports. | The vibrator vibrates too strong for the chosen working width and, therefore, lies very unstable on the rail support system and cannot travel and function in the proper way. | Remove the protection cover of the vibrator and adjust the excentrical weights in accordance with the setting range indicated by the manufacturer. (see figure 7 and 8). NOTE: When using a gasoline type of EZ-Screed you can adjust the revolutions and centrifugal force by reducing or increasing the motorspeed to suit the required vibrations and beamwidth. |
| The EZ-Screed vibrates insufficient and as a result the concrete floor cannot be levelled and smoothed in the proper way. | The centrifugal force of the vibrator is set too low. There is an excess of concrete in front of the leading edge. The chosen width of the profile is too big. | Increase the centrifugal force of the vibrator, (see figure 7 adjusting the centrifugal force). NOTE: In case you are using a EZ-Screed with a petrol engine you can increase the centrifugal force by increasing the revolutions of the gasoline engine (full throttle). Make sure to maintain a roll of concrete of 20 mm equally spread out along the front of the leading beam. Choose a smaller profile width. |
| The EZ-Screed type with Petrol engine fails to start or runs irregularly. | Insufficient fuel in the fuel tank. The starting procedure was not executed in the proper way. A failure in the gasoline engine. | Refill the fuel tank. Read the operation instructions of the gasoline engine carefully and repeat the starting procedure. |

Table 2: the most occurring problems, causes and solutions.

Tip: Please contact Paclite if problems occur that are not mentioned in the list, or if a mentioned problem is not solved by the solutions in the list.

Repairs

It is not strictly necessary to keep spare parts of the EZ-Screed in stock. If you prefer to have parts in stock, please ask your supplier or dealer for advice.

TIP: WHEN ORDERING PARTS, FILL IN THE ORDER FORM ACCURATELY. PACLITE DECLINES ALL RESPONSIBILITY FOR THE SUPPLY OF INCORRECT SPARES DUE TO INCOMPLETE OR UNCLEAR REQUESTS.

When ordering parts please state the following information:

- Type of machine.
- Year of construction.
- Order number plus description of the part.
- The required quantity.
- The dispatch address and dispatch mode.



Contact details Paclite Equipment:

70 avenue du General de Gaulle
94000 Creteil (FR)
Tel.: +33 149816955 / Fax: +33 148984088
www.paclite-equip.com

8. Dismantling, disposal

Safe disposal

Instructions for the protection of the environment. The old machine contains valuable materials. Take the discarded apparatus and accessories to the nearest official collection point.

Construction material

The machine is manufactured from the following materials:

| Location | Material |
|-----------------------|--------------------|
| Profile | Aluminium |
| Endcovers profile | Synthetic material |
| Twin handle control | Steel |
| Various parts (small) | Steel / aluminium |
| Housing petrol engine | Aluminium |
| Engine cover | Synthetic material |
| Fuel tank | Synthetic material |
| Silent blocks | Rubber |
| Handles | Rubber |
| Flexible shaft | Spring steel |
| Flexible shaft cover | Rubber |
| Hose connectors | Steel |
| Excentrical weights | Steel |

Table 3: construction material used.

Fig10: exploded view EZ-Screed with Honda petrol engine

| REF. | PART.NO | QTY. | DESCRIPTION |
|------|------------|------|-------------------------------------------------------------|
| 1 | 2648 | 2 | Handle grip |
| 2 | 2647 | 1 | Throttle handle |
| 3 | 2633LW | 1 | Upper operating handle |
| 4 | 2640A35 | 1 | Engine Honda GX 35 S.E.T. |
| 7a | 2641 | 1 | Centrifugal housing complete |
| 10 | 2645LW | 1 | Throttle Asm. Cable 87 cms. |
| 11 | 2626 | 1 | Clamp for centrifugal housing |
| 12 | 2625LW | 1 | Rubber hose with connectors |
| 13 | 2621LW | 1 | Flexible shaft |
| 14 | 0178 | 4 | Spring washer M6 Type B |
| 15 | 0165 | 4 | Socket head bolt M6x25 |
| 16 | 2632LW | 1 | Lower Operating Handle |
| 17 | 0101 | 3 | Self-locking nut M8 |
| 18 | 0155 | 8 | Flat washer M8 |
| 19 | 2611Kompl. | 1 | Excentric housing complete (19, 21, 22, 23 & 25) |
| 20 | 1100000008 | 1 | Coupling drive pin |
| 21 | 2619 | 1 | Bearing (small) |
| 22 | 2612 | 1 | Excentric shaft |
| 23 | 2314 | 1 | Bearing (big) |
| 24 | 0278 | 4 | Socket head bolt M8x30 |
| 25 | 0201 | 1 | Retaining ring 17x1mm. |
| 26 | 0213 | 4 | Toothring M8 |
| 27 | 2604LW | 1 | Excentric assembly plate 350mm long |
| 28 | 2610LW | 1 | Strip with nuts for alu.clamp 350mm long |
| 29 | 2608N | 2 | Support block |
| 31 | 2609N | 1 | Cover of excentric |
| 32 | 2602 | 1 | Set of end caps |
| 33 | 2602LW | 2 | Set of seals in Alu.profile (one side) only for LW profile |
| 33 | 2602A | 2 | Set of seals in Alu.profile (one side) |
| 34 | 260015 | 1 | EZ-Screed profile 1.5 mtr. – 5 feet |
| | 260020 | 1 | Idem, but 1.9 mtr. |
| | 260025 | 1 | Idem, but 2.5 mtr. |
| | 260030 | 1 | Idem, but 3.0 mtr. |
| | 260035 | 1 | Idem, but 3.75 mtr. |
| | 260040 | 1 | Idem, but 4.25 mtr. |
| | 260050 | 1 | Idem, but 5.0 mtr. |
| | 260055 | 1 | Idem, but 5.50 mtr. |
| | 260060 | 1 | Idem, but 6.0 mtr. |
| | 260015LW | 1 | Idem, but 1,52 mtr. = 5ft exact |
| | 260018LW | 1 | Idem, but 1,83 mtr. = 6ft „ |
| | 260024LW | 1 | Idem, but 2,44 mtr. = 8ft „ |
| | 260030LW | 1 | Idem, but 3,05 mtr. = 10ft „ |
| | 260036LW | 1 | Idem, but 3,66 mtr. = 12ft „ |
| | 260042LW | 1 | Idem, but 4,27 mtr. = 14ft „ |
| | 260048LW | 1 | Idem, but 4,88 mtr. = 16ft „ |
| 35 | 0277 | 12 | Self tapping screw M5x20 |
| 37 | 0129 | 3 | Tapbolt M8x40 |
| 38 | 2614 | 1 | Hinge bushing for excentric |
| 39 | 0177 | 1 | Nut M12 (fine) |
| 41 | 2613 | 1 | Clamping bush for excentric |

| REF. | PART. NO. | QTY. | DESCRIPTION |
|------|-----------|------|--------------------------------------------------------|
| 42 | 0175 | 1 | Retaining ring M12 |
| 43 | 2615A | 1 | Excentric plate (small) |
| 44 | 2615B | 1 | Excentric plate (big) |
| 45 | 0207 | 4 | Countersunk head screw 8.8 M8x25 |
| 46 | 2617 | 3 | Plastic protection cap M12 |
| 47 | 2607 | 3 | Compression spring for clamping strip |
| 48 | 2605LW | 1 | Alu. clamping strip |
| 49 | 0176 | 3 | Washer M12x6 |
| 50 | 2606 | 3 | Wing bolt |
| 51 | 0285 | 4 | Tap bolt M8x12 |
| 52 | 0212 | 8 | Internal toothing ring M8 |
| 53 | 0056 | 4 | Rubber buffer 30x30 M8 |
| 54 | 0124 | 4 | Tap bolt M8x10 |
| 56 | 2643A | 1 | Earth wire for stop switch |
| 57 | 2643 | 1 | Stop switch |
| 58 | 2658 | 1 | ON-OFF indication plate |
| 59 | 0283 | 2 | Carriage bolt M8x50 |
| 60 | 0089 | 2 | Self locking flange nut M6 |
| 63 | 2635 | 2 | Lower Alu. clamp |
| 65 | 0181 | 1 | Tap bolt M6x30 |
| 66 | 0100 | 1 | Self locking nut M6 |
| 67 | 2635A | 2 | Upper Alu. clamp |
| 68 | 0284 | 2 | Socket head bolt M6x40 |
| 69 | 2636 | 2 | Clamp for height adjustment |
| 71 | 0167 | 1 | Screw M5x16 |
| 72 | 0099 | 1 | Self locking nut M5 |
| 73 | 2637LW | 1 | Supporting leg |
| 74 | 2644 | 1 | Gas throttle adjustment bolt |
| 75 | 2639 | 1 | Clamp for supporting leg |
| 76 | 2634 | 1 | Rubber protection cap for supporting leg |
| 77 | 2646 | 1 | Engine RPM. blocking bush excluding 0239 screw M3 * 16 |
| 78 | 2321H | 1 | Switch bracket Honda GX-35 |
| 80 | 0269 | 1 | Socket head bolt M5 x 12 |
| 81 | 0206 | 8 | Square nut M8 |
| 82 | 26061 | 1 | Spring clip for eccentric cover |

Table 4: parts list EZ-Screed



10. Declaration of conformity

EC DECLARATION OF CONFORMITY

EC-declaration of agreement for machinery
(Directive 2006/42/EC, Annexe II, under A)

The wetscreed / vibrating beam EZ-Screed:

- 1) Complies with the regulations for the Machine Directive 2006/42/EC and the EMC-Directive 2004/108/EC.
- 2) complies with the following harmonised standards: NEN- EN 12100-1:2003, NEN- EN 12100-2:2003, NEN- EN 12649