



European Golf Machinery
Rangeball UK LTD



E800 and E2000 Installation notes and User Guide

www.rangeball.co.uk

New features for 2011



For the 2011 season, washers now include a new high quality emptying tap and filling spout.





Installation



- The machine should be positioned on a **flat and hard** surface, and then **adjusted to level** with the four adjustable leg bolts (2 x 17mm spanners). **We recommend positioning on a concrete base.**
- Before situating the machine, make sure that you have a suitable area to drain the machine when required.
 - The tank is fitted with a 2" draining tap to allow for the disposal of soiled water. 2" piping can be inserted into the tap for routing to a drain point.
- To fill the cleaner with **fresh water**, use a hosepipe and fill the tank using the side filler provided. **The water level should rise**, and be maintained, up to the Blue/White '**Water Level**' label on the filler spout (identified below).
- We do not recommend using chemical cleaning agents in the tank of the cleaner. Chemicals may affect the lacquer coating on golf balls and the water authorities may refuse permission to dispose of the water due to environmental reasons.
- These machines are mains powered and therefore need to be installed by ***A QUALIFIED ELECTRICIAN*** or competent responsible person. The mains lead must be safely routed to a supply with circuit breakers. Be especially careful to make sure that the lead cannot be damaged by any other equipment or processes that may share the same area.
- Whilst not strictly necessary, we recommend the use of **ear defenders** whilst the machine is in use.
- Further advise on specific installations can be sought by contacting European Golf Machinery by email or phone:
info@rangeball.co.uk
Tel: +44 (0) 1473 277177

WATER LEVEL -- WATER LEVEL -- WATER LEVEL

All current EGM golf ball cleaners are labelled with the below set of updated labels at the time of production.

If any of the labels are missing from your machine, then it is in the best interests of Health and Safety to obtain new ones from EGM as soon as possible.





FIGURE 1



FIGURE 2



FIGURE 4



FIGURE 6



FIGURE 5

Operation of Semi-Automatic machines

Follow the steps for filling the manual machines (Page 8).

Setting up washing and emptying cycles (Fig. 5 P6)

The timers fitted to the semi-auto washer provide for a timed wash and automatic dispenser filling cycle. Two adjustable timer functions are controlled by **blue** dials.

The left dial controls how long the ball washer retains the golf balls and washes them.

Rotating this dial in a clockwise direction increases the washing period, whilst turning it anticlockwise has the opposite effect. The minimum washing cycle is approximately ONE minute, and we recommend that the cycle is increased until the washed balls are satisfactorily clean.

After the washing cycle has completed, the ball washer will move on to the right timer. This timer is held responsible for dictating for how long golf balls are emptied and carried away by the linked ball elevator.

After the emptying cycle has been completed, the right timer will also shut down the system.

We recommend that the emptying timer is set to 5 minutes initially. This should be an adequate time to empty a full load of golf balls.

DO NOT attempt to alter the settings of any other dials on the timers other than the two blue dials. The timers are factory set and DO NOT need altering during use.

Using the Semi-Auto system

To start the washing process press the **GREEN** button on the control box. Under normal conditions, the washer will stop after the emptying process is finished. If you need to stop the machine during its cycle then the **RED** button can be used.

To reinitiate the cycle from the start, press the **GREEN** button again.

Exit gate jams (Fig. 4 P6)

The exit gate, as pictured, is operated by an electric solenoid. It is possible on occasion that the exit gate may become blocked by a foreign object. These may include stones and broken golf balls.

In the event of blockages, you **MUST** contact your supplying distributor or EGM. **ALWAYS ISOLATE FROM MAINS AND ELEVATOR BEFORE WORKING ON MACHINE.**

Manual washer operation

Filling

Make sure that the water level of the machine is up to the water level indicator (2-3" above the bottom of the internal washing drum).

Load the dirty golf balls into the entry chute. DO NOT overfill the machine beyond its stated capacity (Max. 800 balls for E800/ 2000 for E2000).

Place a suitable container under the exit chute in preparation for emptying. (Manual machines only).

To begin cleaning, press the **GREEN** start button (Fig. 6 P6).

After around 30 seconds, move the release lever (See Page 9) to the down position by pulling out and pushing down and empty a handful of golf balls.

If they are of satisfactory cleanliness, then empty the machine of balls. If more cleaning is needed, then repeat the above steps until a suitable washing time for the current conditions is found.

In winter, for example, wash times are often longer due to the build up of foreign matter on golf balls.

Stop the machine using the **RED** button (Fig. 6 P6)

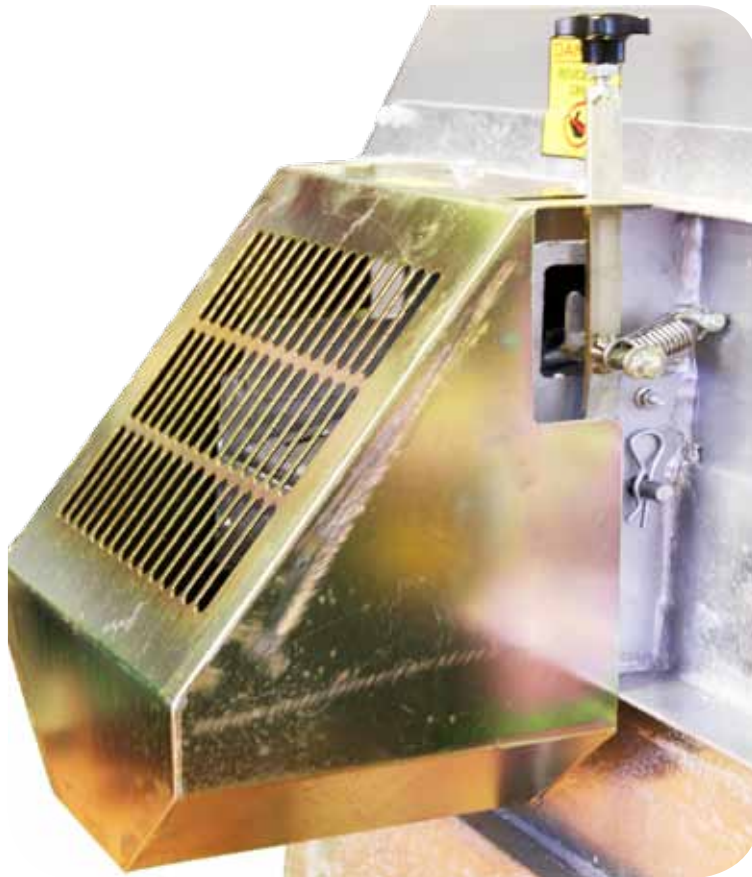
When necessary, drain and refill the water and clean out the tank of sediment (see maintenance section)

Maintenance

The only maintenance procedures possible by the owner are cleaning, inspection (for damaged wiring, loose or damaged components).

For all other maintenance please contact a competent electrician/ engineer, European Golf Machinery on 01473 277177 info@rangeball.co.uk or the supplying dealer.

- Drain dirty water from the machine via the 2" outlet. The frequency with which you change water depends on usage. (Fig. 1 P6)
- To remove sediment from the water tank, loosen the 4 retaining bolts holding the sludge hatch in place and slide it away to one side. once cleaned replace the hatch by reversing the above procedure. (Fig. 2 P6)



Manual emptying gate



Semi-Auto emptying gate

EGM Ball Washer Technical Specifications

Note: All ball washer motors are protected by an overload in the Start/Stop box.

Model:	E800/E2000
Max wash Capacity	800 balls/ 2000 balls
Height:	1050/1050
Width:	800/800
Length:	1100/1845
Empty Weight(Kg):	55/200
Water Capacity(L):	180/400
Electrical	
Voltage:	230 Volts AC (1-Phase)
Gearbox/Motor Current	230v AC
Solenoid(Semi-Auto Only):	230v AC
Starter/Overload:	230v AC
Lunbrication Intervals	Bearings 2 months, drive chain monthly.

EGM Ball Washers comply with the following EC directives:

72/23 EEC of 19/2/1973 (Low Voltage Directive) and subsequent modifications.

89/336 EEC of 3/5/1989 (Electromagnetic Compatibility Directive) and subsequent modifications.

