

# **EasyStarter** Patent Pending

**EasyStarter** allows the quick and safe starting of motorcycles, both touring and race bikes, in the workshop or at the track.

**EasyStarter** duplicates the action of push-starting a bike by spinning the rear wheel up to a speed of 60kph. On releasing the clutch with the bike in gear, the engine is induced to start.



## Operation

- 1 Set up the **EasyStarter** on a suitable area of level ground behind the motorcycle.
- 2 Lower the ramp and position the starting switch in a suitable position on the side that suits you. (see illustration above)
- 3 Plug the **EasyStarter** into an appropriate 240v power source.
- 4 Back the motorcycle onto the **EasyStarter** ensuring the rear wheel is square to the rollers, central between the side-plates and that the front wheel is directly in line.
- 5 Sit astride the motorcycle and apply the front brake.
- 6 Select second gear (or the gear you would use if push-starting).
- 7 Turn on the motorcycle ignition switch, fuel levers, choke etc as appropriate.
- 8 Pull in the clutch lever.
- 9 Sit firmly on the seat and operate the **EasyStarter** operating switch with the heel.
- 10 With the rear wheel spinning, let out the clutch to start the engine.
- 11 With the engine running, select neutral or pull in the clutch lever.
- 12 Release the **EasyStarter** operating switch.
- 13 Push the motorcycle off the **EasyStarter**.

**EasyStarter** – a portable, safe and easy way to start motorcycles

## Safe use of the **EasyStarter**

The **EasyStarter** is not a toy and could be dangerous if not used correctly.

- 1 Position the **EasyStarter** with the power disconnected.
- 2 Beware of nip points – stand clear with the unit powered-up and when operating.
- 3 Do not operate in wet conditions
- 4 Do not operate with fuel or fuel vapours in the area.
- 5 Do not operate if power or switch cables are damaged or frayed.
- 6 Place switch where it won't be accidentally trod on.
- 7 Disconnect power when not in use.



### Some problems experienced:

1. Rollers will not rev back wheel fast enough
  - Clutch is dragging and not allowing rollers to rev
  - Front wheel not aligned, causing side of tyre to rub on the roller chassis
2. Rollers fail to turn wheel  
(Beware, that if the bike wheel does not turn, the knurled roller may grind a groove in the tyre or the electric motor will burn out)
  - Clutch drag
  - Try again using a different gear ratio
  - Your engine may be flooded and you have 'hydraulic lock'
  - Insufficient weight on bike
3. Rollers stop or power cuts off
  - Power board load switch cuts out
  - Fuse on power board

### Please note:

The 'soft start' on the angle grinder has been disabled.  
The lubrication around the gears has been repacked and resealed.  
The unit should not be used in wet conditions

If you experience any problems, or have a suggestion for improvement, please let me know.

Thank you

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1



Figure #1 shows just how compact the starter is. Measuring 53cm x 41.5cm x 16.5cm.

2



Figure #2 shows the hinged ramp to which the rear wheel is helped onto the rollers.

3



Figure #3 shows the ramp in position and starter foot button in place.

4



Figure #4 Indicating the gap in which the rear wheel is positioned. Unlike yours no side rollers are required.

5



Figure #5 Indicates this Easystarter was built for; Brian Kuerschner.

6



Figure #6 Shows the neatly located GMC 9" 1400w angle grinder power source.

7



Rubber grip  
handle.

Figure #7 Clearly displays the rubber foundation mat and easy carry handle positioned for ease of balanced handling.