

Cock Shock

Philipp Klaus Krause

July 14, 2018

1 Introduction

The Cock Shock is a remote-controlled electric cock-and-ball-torture device. There is only a small number of such devices currently commercially available, and the Cock Shock seems to be the most easily available and affordable one.

However, it has various shortcomings, both in documentation and the device itself.

Reverse engineering will result in better documentation, such as this document, and hopefully in hacks to address the device's shortcomings.

2 What is the Cock Shock?

The Cock Shock is a remote-controlled electric cock-and-ball-torture device by Master Series. It consists of a remote control and a shock unit. The shock unit is meant to be attached to male genitals and can provide electric shocks and vibration. The remote control sends commands to the shock unit via 433 Mhz RF. There is some safety designed into the protocol to avoid accidental activation of the shock unit by other nearby 433 Mhz devices. There is no security, so a deliberate activation of the shock unit by an attacker (e.g. a replay attack using a software-defined radio) would be easy.

3 What is the Problem?

The Cock Shock is badly documented by the manufacturer, and has some shortcomings in functionality.

As can be seen from reviews (e.g. on www.amazon.com and on some blogs), some users didn't get instructions or maybe didn't notice the small folded piece of paper that contains the instructions, resulting in them being unable to get the device to work. Other users have trouble due to undocumented functionality, such as the 3-minute auto-shutdown timeout.

Many also miss some functionality, such as setting the shock level:

I would have liked there to be two, or three, different levels of intensity for the jolts. Just to perhaps tease, or train, my slaves up through several levels of shock, rather than have them cry their safe word so quickly. So, consequently, all of my "cock-shocker" sessions have been quite short so far! [...] But, I haven't yet had any of the

subs I've used it on, be able to take more than two or three jolts before they've cried their "safe word"[3]

I've used a fair few electro sex toys and can use cock loops at maximum output on the powerboxes I have – this feels nothing like them at all. Where they can feel like a nice powerful vibration this feels more like how I imagine a taser feels, it is a powerful jolt that even my masochistic slave was fearful of – it hurts that much.[2]

Being able to disable the 3-minute auto-shutdown timeout would also be useful.

4 Using the Cock Shock

The manufacturer's instructions are rather short and incomplete:

Instructions:

To use the Cock Shock, first insert a 9v battery (included) into the remote control. Second, unscrew the electro contact points on the shock unit and remove the inner plate to reveal the battery compartment. Insert two AAA batteries (not included).

A red and green light should come on in the shock unit, and the red light should be flashing. At this time hit either the shock or vibrate button to pair the remote to the shock unit. Reinstall the inner plate, and screw the electro contact points back on.

Now strap the shock unit to his junk in whatever way you see fit, making sure that the contact points are pressing firmly into his skin. Now he either behaves, or you discipline him.[1]

The remote control has 4 buttons (Shock, Light, Vibrate, Sound) and 2 switches (On/Off, Volume). The Shock and Vibrate buttons send commands to the shock unit via RF. The Light button shines a blueish light from the front of the remote control. The Sound button sounds a bird noise from the back of the remote control, the volume depends on the setting of the volume switch. The On/Off button is mostly useful to prevent accidental triggering of any functions. The remote control consumes virtually no power even when switched on as long as no buttons are pressed (see Figure 1).

Bat. volt.	Off	Idle	Shock	Light	Vibrate	Sound-	Sound	Sound+
8.4 V	< .1 μ A	< .1 μ A	30 mA	36 mA	35 mA	10 mA	30 mA	110 mA
9.0 V	< .1 μ A	< .1 μ A	35 mA	40 mA	37 mA	10 mA	30 mA	80 mA

Figure 1: Measured battery current draw of remote control at the nominal voltages of NiMH and Alkaline batteries

The shock unit has two electrodes, for making contact with skin. While they have a good shape for their purpose, using a conductive electrode gel can further reduce resistance between the electrodes and the body. When the shock unit receives no commands for about 3 minutes, it goes into shutdown, reducing power consumption by about 20% (see Figure 2). In shutdown mode, the shock

unit will not receive any commands from the remote control. The shock unit has a tilt sensor and can be brought out of shutdown mode by moving it. When the unit is not in use, the battery should be taken out, as the high current draw will quickly empty the battery even when in shutdown.

Bat. volt.	Idle	Shutdown	Shock	Vibrate
2.4 V	54 mA	41 mA	156 mA	140 mA
3.0 V	52 mA	41 mA	170 mA	160 mA
3.3 V				

Figure 2: Measured battery current draw of shock unit at the nominal voltages of NiMH, Alkaline and NiZn batteries

5 The Remote Control

TODO

6 The Shock Unit

TODO

References

- [1] A small piece of paper folded to a size of 32 mm by 121 mm that comes with the device.
- [2] Justin Decerous. Review | Master Series Cock Shock Remote Controlled Cock Ring, 2016 (accessed 2018-07-14). <http://www.justindecerous.com/master-series-cock-shock/>.
- [3] Katie Ellison. Modesty Ablaze reviews the “Master Series Cock Shock Remote Controlled Cock Ring” from @UberKinky, 2016 (accessed 2018-07-14). <http://modestyablaze.com/2016/07/04/modesty-ablaze-reviews-master-series-cock-shock-remote-controlled-cock-ring-uber kinky/>.