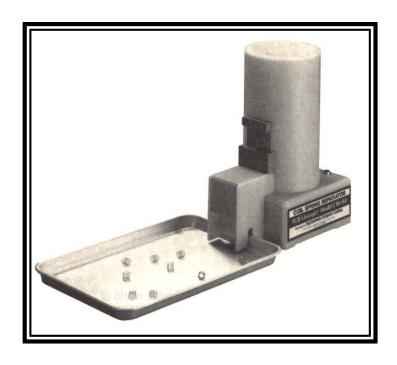


# COIL SPRING SEPARATOR

## **CSS SERIES**



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### **BANEPET**

#### SEPARATOR OF COIL SPRINGS

#### 1.WHAT BANEPET IS

Coil springs are usually supplied by manufacturers to their users with a carton or bag packing, in which springs are entangled each other. Entangled springs are to be separated when used by hand, but such a manual work causes various troubles such as time-consuming, changing shapes, etc.

Basically, all the machinery would be assembled semi-automatically or automatically with a few exception. One of such exceptions is to separate entangled springs till now.

In order to solve these problems, BANEPET has been developed. By using springs separated by BANEPET, much faster works could be possible, and the products themselves can be manufactured keeping a high quality standard.

In the past twenty years since it became available on the market, the effectiveness of BANEPET has been proved with a very good reputation. To meet the varying shapes of springs, two different types of BANEPET have been developed so far. In June 1980, the patent was approved in Japan.

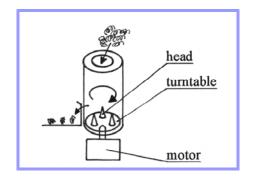
#### 2.SPRING SIZE

Model	Wire Diameter	Outside Coil Diameter	Free Length
CSS-S4	$0.2 \sim 0.4$ mm	$2 \sim 10$ mm	$2\sim 20$ mm

CSS-S4 is for the use of manual aid. It is recorded that nearly 90% of entanglement, whatever it is, has been released.

#### **3.PRINCIPLE OF BANEPET**

The principle of BANEPET is quite simple. By letting springs spin, the entanglement could be released, as illustrated at the right. Entangled springs are placed on the turntable with heads, which hit entangled springs to sparate. The gate of this kit is arranged to let only a released spring out.



It could be considered that BANEPET is used as the simple instrument as solder irons or electric drivers on the assembly lines.

There are two types of coil springs, clockwise and anticlockwise. Springs coiled clockwise are to be hit

anticlockwise, and vice versa, to separate each other. Therefore, the motor which makes the turntable spin in either way should be adjusted accordingly.

The motor of BANEPET is not fortified more than necessity so that entangled springs inside the kit are hit as lightly as possible. During the turntable spinning, entangled springs are to be thrown in.

In the meantime, if the big volume of springs were thrown in, the motor would either do too slow to release or be stopped. It is therefore suggested that the optimum quantity to the speed of assembly work is to be put in the kit to release.

The variety of springs is so wide in size, shape, strength, material and so on that the manual work is requiring the man power and is bothering their nerves. BANEPET will surely save the cost and unnecessary mental loss. And BANEPET will contribute in terms of shortening the delivery, quality improvement and quality control.

We are always prepared to offer our best service and the proper suggestion, if you kindly let us have samples of entangled springs.

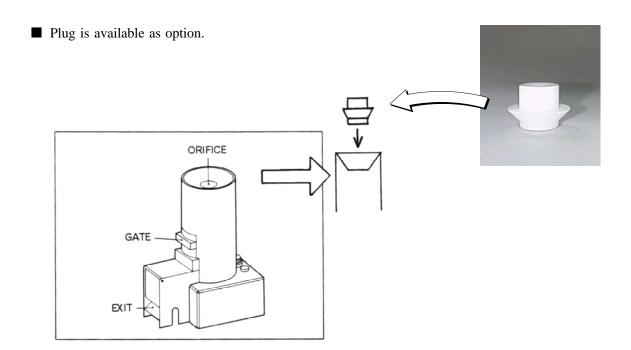
#### 4.PRECAUTIONS

- 1)Before removing the top cover from BANEPET, disconnect from the main power supply.
- 2)To change the fuse, remove the top cover, remove the old fuse and replace with an approved 1 amp fuse.
- 3)Before attempting to repair or clean BANEPET, disconnect the electrical supply.
- 4)Components and devices providing safety for the operator, must be used according to the instruction manual. In case of repair or replacement of any such device, original parts must be used.

# WARNING: EYE PROTECTION MUST BE WORN WHEN LOADING SPRINGS.

#### 5.HOW TO USE BANEPET/MODEL CSS-S4

- 1)Electricity of 110V 50/60Hz is to be used. The switch gets on when it is pushed towards outside of the kit.
- 2)Before throwing entangled springs into the kit, you are requested to check and confirm if the switch be surely on with the lamp lit and also if the turntable be moving. The gate must be pulled down to the lowest level, then pulled up gradually until released springs start to jump out one by one.
- 3)In case springs spread back out of the throwing orifice, the plug must be put on the orifice as illustrated at the next page.
- 4)The standard kit is set for springs coiled clockwise, so that if springs coiled anticlockwise are worked out, you are requested to inquire so.



WARNING: TO PREVENT FIRE OR SHOCK HAZARD, DO NOT EXPOSE BANEPET TO RAIN OR MOISTURE.