

Compact Hopper Maintenance



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1. Diary of Changes

Issue 1.0.....September 2001
➤ First Issue.

Issue 2.0.....September 2001
➤ Information amended.

Issue 3.0.....12th May 2003
➤ Additional information and pictures added.

Issue 3.1.....30th June 2004
➤ Changed footer

2. Introduction

The Maintainable life of a Compact Hopper is approx. 3 million coins.
This assumes that certain components are replaced at regular intervals, i.e.

Table 1: Life & Maintenance.

Coin qty	Replacement item
500,000 Coins	Replace ejector fingers and spring
1,000,000 Coins	Replace adjuster plate.

WARNING:

Ensure that power has been removed from the hopper before any maintenance operations are performed. NOTE: coin dust may accumulate in the hopper during use. Inhalation of the dust should be avoided during maintenance operation.

3. Routine Cleaning

All accessible parts of the coin route should be cleaned between 50,000 & 100,000 coins (dependant on coin type) using a mild detergent on a damp cloth. No spray solvents should be used.

Particular attention should be paid to the sensors at the coin exit, as excessive dirt build up on the optical surfaces may cause unreliable coin counting.

3.1 Health and Safety

Due to the potential respiratory hazards, it is highly recommended that a facemask be worn to prevent the inhalation of dust particles dislodged during the maintenance process.

3.2 Cleaners

The following cleaning products can be used for the maintenance of the hopper:

3.21 AIR DUSTERS

High pressure compressed inert gas to remove dust and loose particles.

3.22 SWABS

Lint free polyester swabs to clean otherwise difficult to access areas.

3.23 CLEANING CLOTHS

Soft lint free cloths to wipe down accessible surfaces of the compact hopper.

3.24 MILD DETERGENTS

This can be washing up solution mixed with warm water or a non-abrasive cleaner.

All these items can be purchased from suppliers such as RS and Farnell.

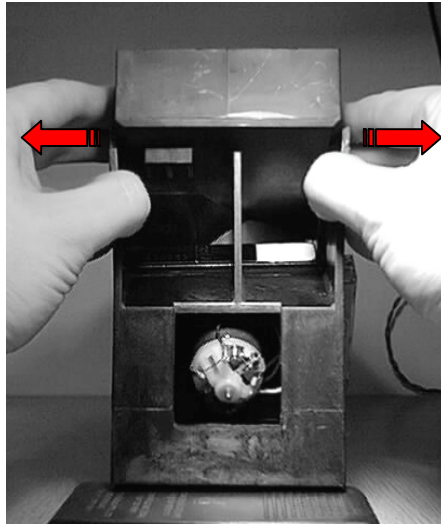
NB: ONLY USE MILD DETERGENTS SO AS NOT TO DAMAGE THE HOPPER.

3.3 Dismantling the Hopper

The areas of the Compact Hopper, which require attention during maintenance, include any areas where a coin travels. To reach these areas the Compact Hopper will require moderate dismantling.

Unclip the bowl from the base at the back. Ease outer posts in the directions as shown in figure 1 to release the bowl.

Figure 1: Release bowl



Now remove the bowl by easing it towards the front of the hopper (figure 2).

Figure 2: Remove bowl



Areas to Target

The areas of the disc bed, which require cleaning with a brush and soft cloth with mild detergent, are the disc bed (as indicated in figure 3) the disc, ejector fingers, adjuster plate and light guide or light pipe.

To clean the sensors inside the light guide, use an air duster and a swab with some mild detergent to remove any grease or dirt that might obstruct the light beam.

Figure 3: Compact Hopper disc bed



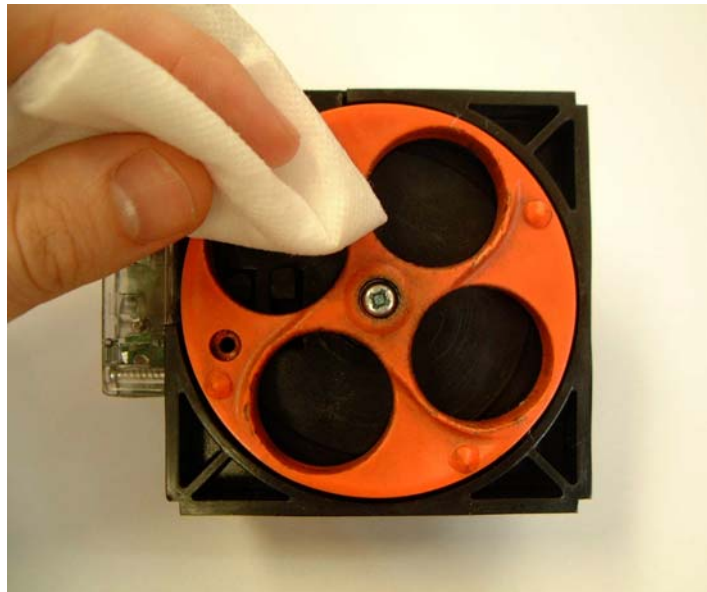
It is possible to remove a majority of the dust and dirt which has built up on the Compact Hopper using a brush as shown in figure 4.

Figure 4: Cleaning with a brush



Further cleaning can be achieved by using a soft cloth with mild detergent as in figure 5.

Figure 5: Cleaning with a soft cloth



Cleaning of the Light Guide can be done either using a lint free cloth with mild detergent as depicted in figure 5 or using a lint free polyester swab.

Figure 6: Cleaning the Light Guide



Once complete, re-assemble the hopper and test to ensure that the hopper functions correctly.

PLEASE NOTE

The Compact Hoppers depicted in these images show a Clear Light Guide, this is for illustration purposes and these instructions can be followed for all Light Guide types.

**If more information is required, please contact Money Controls
Technical Services on 0161 955 0124.**

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