Compact Hopper Test Box Instructions

Money Controls

Contents

1.   Diary of Changes

Issue 1.0…………………………………………………………………….……………7th April 2003

Issue 2.0…………………………………………………………………….…………….12th June 2003
- ➢   Section 4. Testing the Compact Hopper added.

Issue 2.1…………………………………………………………………….…………….30th June 2004
- ➢   Changed footer

2.   Introduction

The test box has been designed to allow the testing of a Compact Hopper. In order to function, the test box must be supplied with 24V 4A or 12V 5A DC.

Note:- This is only for use with the PARALLEL Compact Hopper.

3.   Overview of test box

There is a DC Power Supply input and also a Compact Hopper loom emanating from the rear of the test box – the 4-way female connects to the male 4 pin interface connector on the Compact Hopper and the 2 way cable goes to a DC power supply.

DO NOT TURN THE POWER ON BEFORE ALL CONNECTIONS TO TEST BOX AND COMPACT HOPPER ARE MADE!!!!!!
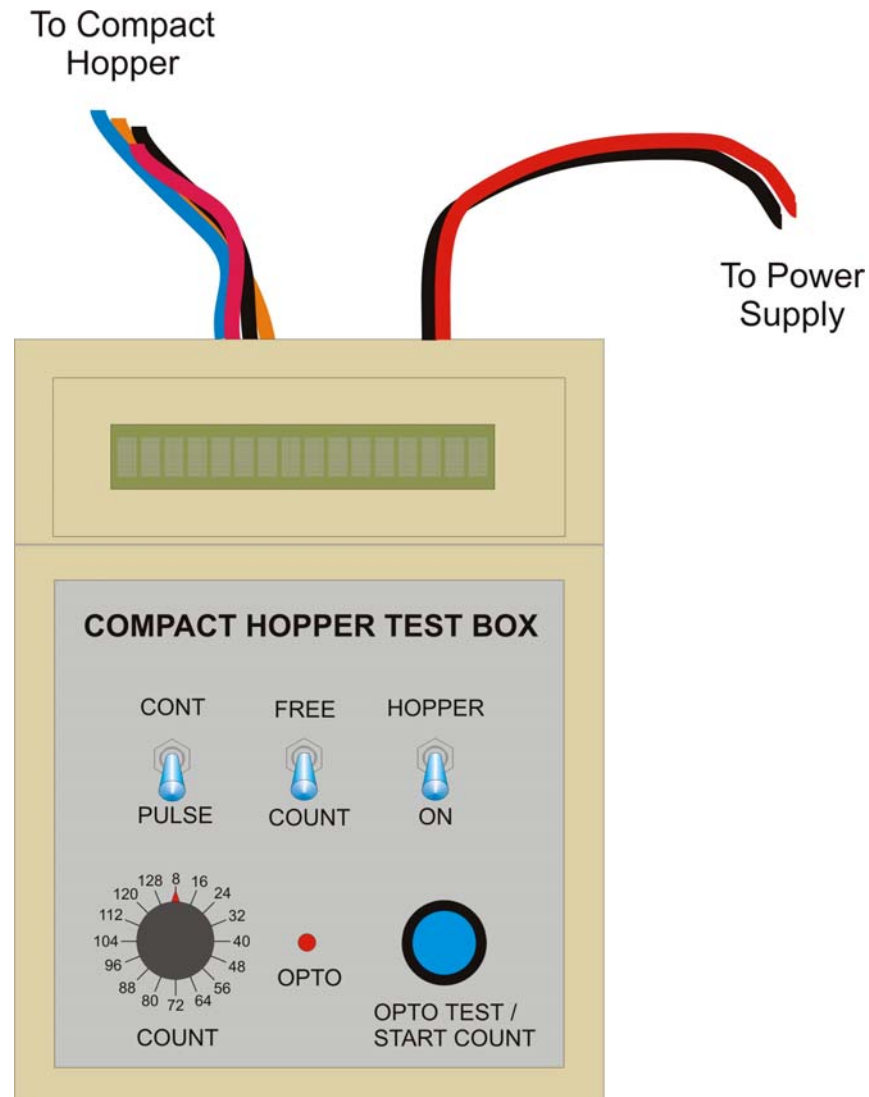
3.1   Test Box Functions

The following are the functions available for this test box.

3.1.1   CONT / PULSE

Select mode for paying out coins either continuously ("CONT") or pulsed ("PULSE").
In continuous mode the coins are ejected without any pause.
In pulsed mode the motor pauses for 500ms between each coin ejection.

3.1.2   FREE / COUNT

"FREE" pays out the coins until hopper is empty,
"COUNT" pays out number of coins selected using the "COUNT" switch

3.1.3   HOPPER / ON

Start and stop the Hopper. This shuts the power off to the Hopper motor but not the test box.

3.1.4   COUNT SWITCH

Rotate to select a predefined number of coins to be dispensed.

3.1.5   OPTO LED

Illuminates each time a coin is dispensed and remains lit when the opto is blocked

3.1.6   OPTO TEST / START COUNT

While the Hopper is off, pressing this button will test the opto and confirm by illuminating the "OPTO LED" and by incrementing the counter by 1.
If the Hopper is powered up, this will start the payout of coins in *Pulsed Mode*.

3.1.7   DISPLAY SCREEN

The display shows the counter on the left side of the screen and the motor current on the right.

N.B.– each time the Hopper is started the counter is reset.

4.   Testing the Compact Hopper

Ensure the power supply is OFF and the "HOPPER / ON" switch is set to "HOPPER".

Once all connections have been made, set the " CONT / PULSE" and the "FREE / COUNT" switches to the desired test positions:-

4.1   CONT / FREE

Switch on the power supply.
The display will show the following:-

The left hand side of the display (COUNTER) shows how many coins have been paid out while the right hand side (CURRENT) shows the current being drawn by the hopper.

Switch "HOPPER / ON" to "ON" to start the hopper paying out.
The display will show the following:-

As each coin is paid out, the counter will increment by 1 and the "OPTO" LED will flash.

The hopper will continue to run even when all the coins are paid out.

To stop the hopper, switch "HOPPER / ON" to "HOPPER".
The display will show:-

To repeat, switch "HOPPER / ON" to "ON" to start the hopper paying out coins again.

4.2   CONT / COUNT

Switch on the power supply.
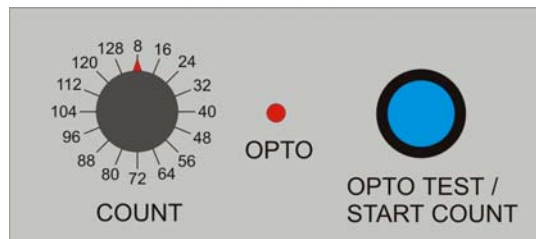The display will show the following:-

The left hand side of the display (COUNTER) shows how many coins have been paid out while the right hand side (CURRENT) shows the current being drawn by the hopper.

Switch "HOPPER / ON" to "ON" to start the hopper paying out coins.

The display will show the following:-

Set the "COUNT" dial to the required number of coins to be paid out.

Press the "OPTO TEST / START COUNT" button.

The display will show:-

As each coin is paid out, the counter will increment by 1 and the "OPTO" LED will flash. The hopper will stop once the set "COUNT" value has been reached and the display will show for e.g.:-

Press the "OPTO TEST / START COUNT" button to repeat the required coin payout.

4.3   PULSE / FREE

Switch on the power supply.
The display will show the following:-

The left hand side of the display (COUNTER) shows how many coins have been paid out while the right hand side (CURRENT) shows the current being drawn by the hopper.

Switch "HOPPER / ON" to "ON" to start the hopper paying out coins.
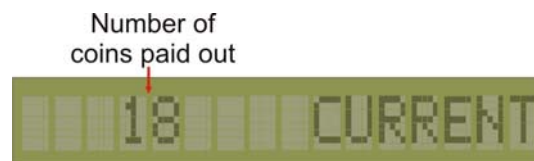
The display will show the following:-

As each coin is paid out, the counter will increment by 1, the "OPTO" LED will flash and the motor will pause for 500ms (*Pulsed Mode*) before starting again and paying out the next coin.

The hopper will continue to run even when all the coins are paid out.

To stop the hopper, switch "HOPPER / ON" to "HOPPER".
The display will show:-

Number of
coins paid out

To repeat, switch "HOPPER / ON" to "ON" to start the hopper paying out coins again.

Note:- Should the opto become blocked while paying out in PULSED mode, the disk will continue to move around very, very slowly.

4.4   PULSE / COUNT

Switch on the power supply.
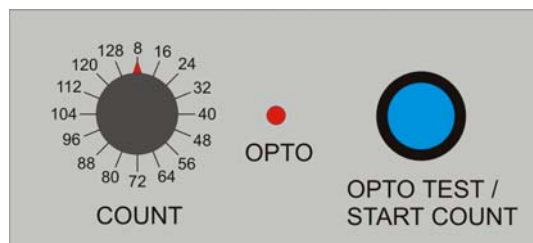The display will show the following:-

The left hand side of the display (COUNTER) shows how many coins have been paid out while the right hand side (CURRENT) shows the current being drawn by the hopper.

Switch "HOPPER / ON" to "ON" to start the hopper paying out coins.

The display will show the following:-

Set the "COUNT" dial to the required number of coins to be paid out.

Press the "OPTO TEST / START COUNT" button.
The display will show:-

As each coin is paid out, the counter will increment by 1, the "OPTO" LED will flash and the motor will pause for 500ms (*Pulsed Mode*) before starting again and paying out the next coin.
The hopper will stop once the preset "COUNT" value has been reached and the display will show:-

Press the "OPTO TEST / START COUNT" button to repeat the required coin payout.

Note:- Should the opto become blocked while paying out in PULSED mode, the disk will continue to move around very, very slowly.

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