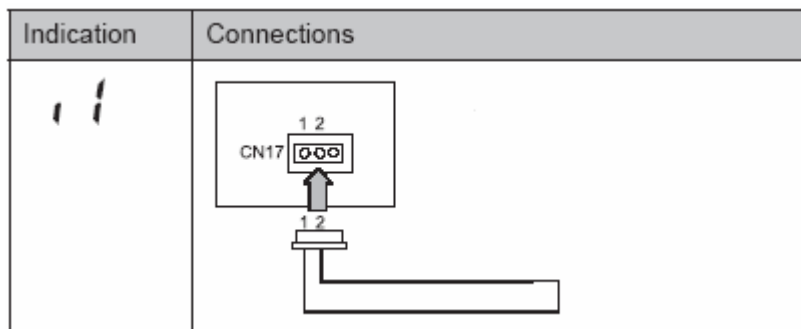# Technical Bulletin

Number	034
Subject	Fixing Set-Free condenser into cooling only
Date	01 June 2009

Introduction

This is a step-by-step guide to enabling additional functions on Hitachi Set-Free products (Outdoor Unit set-up). These follow the installation of a PCC-1A adapter.

Input Settings.

To lock the system into cooling only (assuming no other inputs or outputs from the connector CN17 at the Outdoor PCB).

i1 switches 1 and 2 on CN3 (pcb input)

Component Specification

No relays or components are required. Ensure that wire number 3 on the PCC-1A adapter is terminated.
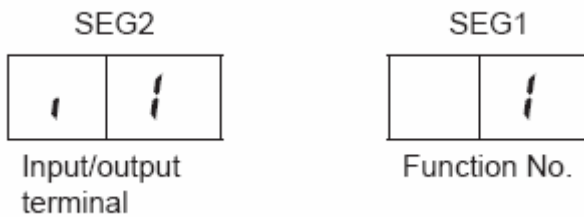
EEPROM Programming Procedure

The EEPROM on the Outdoor PCB now needs to be programmed to ensure that this new instruction will be enabled during normal operation.

While the outdoor unit is ON, set the following DIP switches on the printed circuit board of the outdoor
unit as follows:

- Set pin 4 of **DSW4** to **ON**
- Set pin 7 of **DSW5** to **ON**.

Because of these settings, the function selection mode becomes available and the following indication appears on the 7-segment display at the Outdoor Unit PCB.

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*Note: by pressing the push switches **PSW2** and **PSW3**, you change the input/output terminal name as shown on SEG 2 above.*

*In this instance, **do not press** **SW2** or **SW3** as "i1" on **SEG 2** is the Input Mode required. If you do press either of these buttons, just continue pressing to scroll back to "i1"*

By pressing the push switches **PSW3**, you change the **FUNCTION No**. as shown in **SEG 1** above.

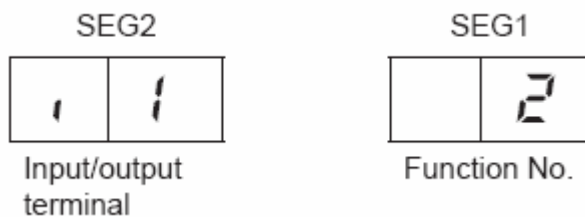Press **"PSW3"** once. This will then show Function No. 2 in **SEG 1**.

Reset the dipswitches.

- Set pin 4 of **DSW4** to **OFF**
- Set pin 7 of **DSW5** to **OFF**.

EEPROM Programming Summary

- Set pin 4 of **DSW4** to **ON**
- Set pin 7 of **DSW5** to **ON**.

Press PSW3 once to show the following:

- Set pin 4 of **DSW4** to **OFF**
- Set pin 7 of **DSW5** to **OFF**

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Full List of Input Signals available at Outdoor Unit

Ind.	Output signal	Application	Port
01	Fixing the heating mode	This signal allows to pre-fix the operation mode, in this case the heating mode, independently of what the indoor unit requests. . This is very useful to set up an unique operation mode	CN17 and CN 18
02	Fixing the Cooling mode	This signal allows to pre-fix the operation mode,in this case the cooling mode, independentlyof what the indoor unit requests. .This is very useful for computer rooms where the cooling mode is fixed throughout the year.	CN17 and CN 18
03	Demand	This signal allows to stop the compressor if it reaches a certain power as well as to put the indoor unit in Thermo-OFF. This is very useful for installations with high power consumption.	CN17 and CN 18
04	Snow sensor	This signal allows to plug in the fans even if the compressor is turned off. This is very useful for cold regions where it snows, which could cause the machine to break due to weight or ice...	CN17 and CN18
05	Enforced stoppage	This signal allows tocontrol the stoppage of the compressor and the fans of the indoor as well as outdoor units. This is very useful when used with the alarm signals of the fire prevention systems.	CN17 and CN18
06	Current control demand60%	This signal allows to regulate Current consumption and establish a maximum consumption of 60% of the rate point. This is very useful for installations that run 24 hours a day.	CN17 and CN18
07	Current control demand 70%	This signal allows to regulate Current consumption andestablish a maximum consumption of 70% of the rate .This is very useful for installations that run 24 hours a day.	CN17 and CN18
08	Current control demand 80%	This signal allows to regulate Current consumption and establish a maximum consumption of 80% of the rate point. This is very useful for installations that run 24 hours a day.	CN17 and CN18
09	Current control demand 100%	This signal allows to regulate Current consumption and establish a maximum consumption of 100% of the rate point. This is very useful for installations that run 24 hours a day	CN17 and CN18

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