

# Technical Bulletin

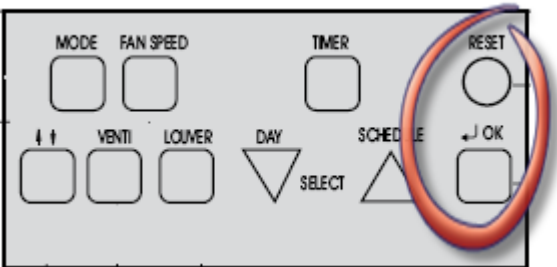
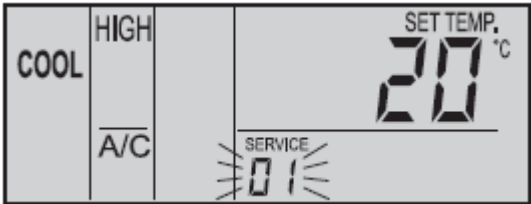
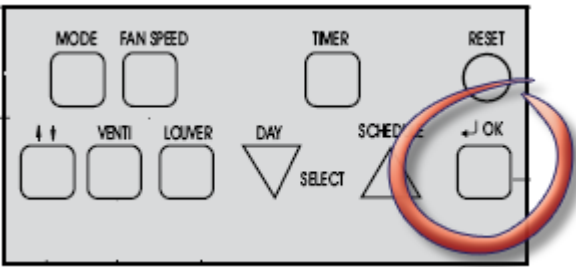
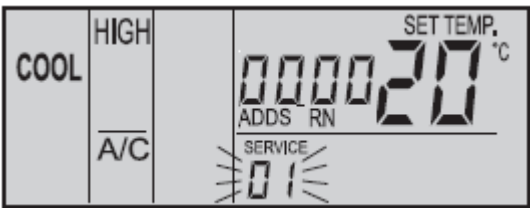

Number	033a
Subject	SERVICE MODE 01 - Commissioning
Date	24 March 2014

This is a step-by-step guide to enabling additional functions on Hitachi Utopia products specifically for commissioning split systems via the PC-ART controller. This document particularly focuses on Comms Room commissioning as an example although many additional functions exist. These can be found in the Installation or User manual or by contacting Logicool.

**This commissioning guide will ensure the following status operations:**

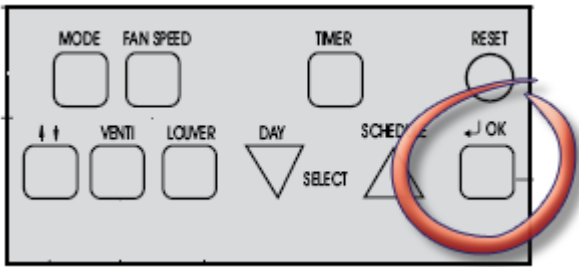
Cooling Only  
 Locked to 19°C  
 Auto Restart after power failure

Low ambient cooling  
 Low pipe run adjustment

Instruction	Status
<p>1) Put the unit into <b>COOLING</b> and <b>19°C</b>. Turn controller <b>"OFF"</b></p> <p>2) Press <b>"OK"</b> and <b>"RESET"</b> together for more than three seconds</p> 	<p>Service Mode status <b>"01"</b> will appear in the bottom window.</p>  <p>Service Mode "01" is what we need to enter in order to set up optional functions.</p>
<p>3) Press <b>"OK"</b></p> 	<p>Address <b>"00" "00"</b> will show in top window.</p>  <p><i>The first "00" digits represent the indoor unit address.</i>  <i>The second "00" digits represent the outdoor (Refrigerant Number) unit address.</i></p>
<p>4) Press the Temperature Down button once</p> 	<p>Address display in top window will change from <b>"00" "00"</b> to <b>"AA" "AA"</b> (all units)</p> <p>This setting is the most advisable when doing any modification.</p> <p><i>You would only select a specific indoor unit if you were commissioning a large group of units, such as a number of fan coils on a VRF system.</i></p>

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5) Press "OK"

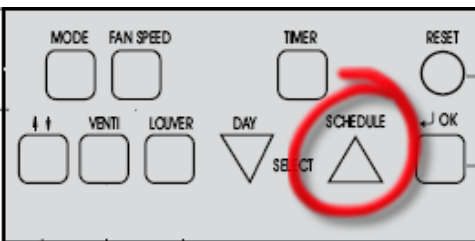


Optional setting "B1" will appear in top right window.

The "AA" "AA" display will be replaced by "00" status.



6) Press "SCHEDULE" continuously to scroll through to required function code, "B5" – Fixing the Operation Mode



Indication "B5" will appear in top right window.

("B5" is the Indication for locking the unit into cooling. "00" is the default status which is DISABLED.)



7) Press "OK"

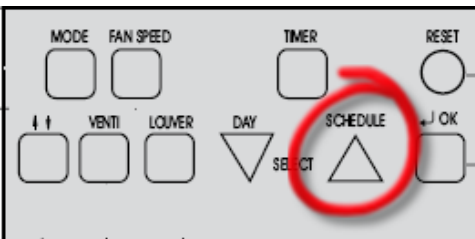
*This will scroll to the required optional setting for "B5"*

**00 – Disabled**  
**01 – Enabled**

Status "00" will change to "01".

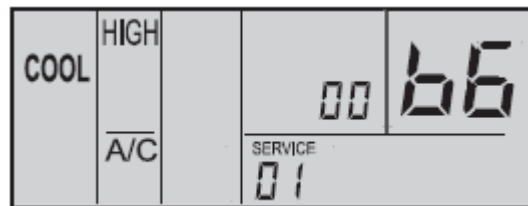


8) Press "SCHEDULE" once to scroll through to "B6" – Fixing the Set Temperature



Indication "B6" will appear in top right window.

("B6" is the Indication for locking the temperature. "00" is the default status which is DISABLED.)



9) Press "OK"

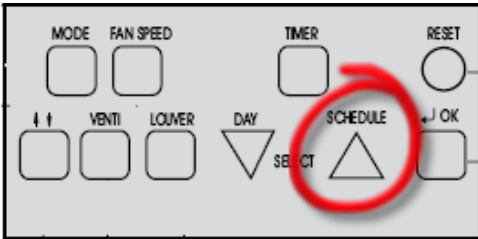
*This will scroll to the required optional setting for "B6"*

**00 – Disabled**  
**01 – Enabled**

Status "00" will change to "01".



10) Press **"SCHEDULE"** once to scroll through to **"B7"** – "Fixing the Operation as Exclusive Cooling Unit"



Indication **"B7"** will appear in top right window.

(**"B7"** is the Indication for fixing the system as an exclusive cooling unit. **"00"** is the default status which is **DISABLED**.)



11) Press **"OK"**

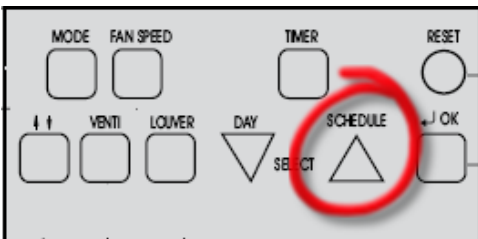
*This will scroll to the required optional setting for **"B7"***

**00 – Disabled**  
**01 – Enabled**

Status **"00"** will change to **"01"**.



12) Press **"SCHEDULE"** once to scroll through to **"D3"** – "Restart Function after Power Failure"



Indication **"D3"** will appear in top right window.

(**"D3"** is the Indication for ENABLING Auto Restart after Power Failure. **"00"** is the default status which is **DISABLED**.)



13) Press **"OK"**

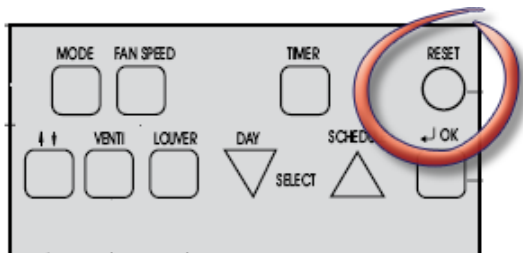
*This will scroll to the required optional setting for **"D3"***

**00 – Disabled**  
**01 – Enabled**

Status **"00"** will change to **"01"**.



14) Press **"RESET"**



Remote controller will return to normal operation mode.

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15) Turn remote controller “ON”	<p>Normal Operation.</p> <p>To test, press <b>MODE</b> button to ensure COOLING operation is locked and temperature button to ensure temperature is LOCKED.</p>
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## Additional Settings.

These functions may also be considered for Comms Room applications.  
Full list of functions available on request

Item	Optional Function	Set	Desc.	Content
<b>b4</b>	Change of filter cleaning time	00	Standard	Change the time and frequency that the FILTER warning light appears.
		01	100 Hrs	
		02	1200 Hrs	
		03	2500 Hrs	
		04	None	
		01	Available	
<b>C8</b>	Return Air Thermistor at Remote Controller	00	Not avail	Return Air Thermistor located in Remote Controller is activated.
		01	Available	
<b>D1</b>	Auto Restart (Option to D3)	00	Not avail	Restarts operation regardless of whether the power was on or off prior to power failure
		01	Available	
<b>b9</b>	Fixing the fan speeds	00	Not avail	Lock the fan speed setting on the remote controller
		01	Available	
<b>Cb</b>	Enforced Stoppage logic	00	Input A	Forced stoppage (Fire alarm) input from PCC-1A
		01	Input B	
		01	Available	

## ALTERNATIVE TO THE ABOVE – ANTI TAMPER MODE (PC-P2HTE ONLY)

**OPERATION LOCK** – PRESS AND HOLD **DAY** and **SCHEDULE** buttons for more than three seconds when unit is operational

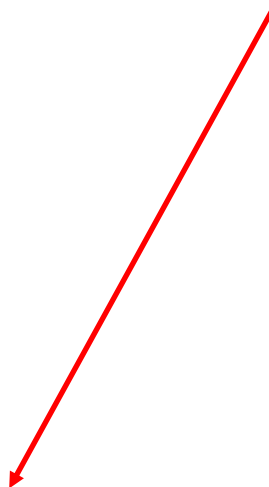
### Outdoor Unit Settings – to be done before unit is installed

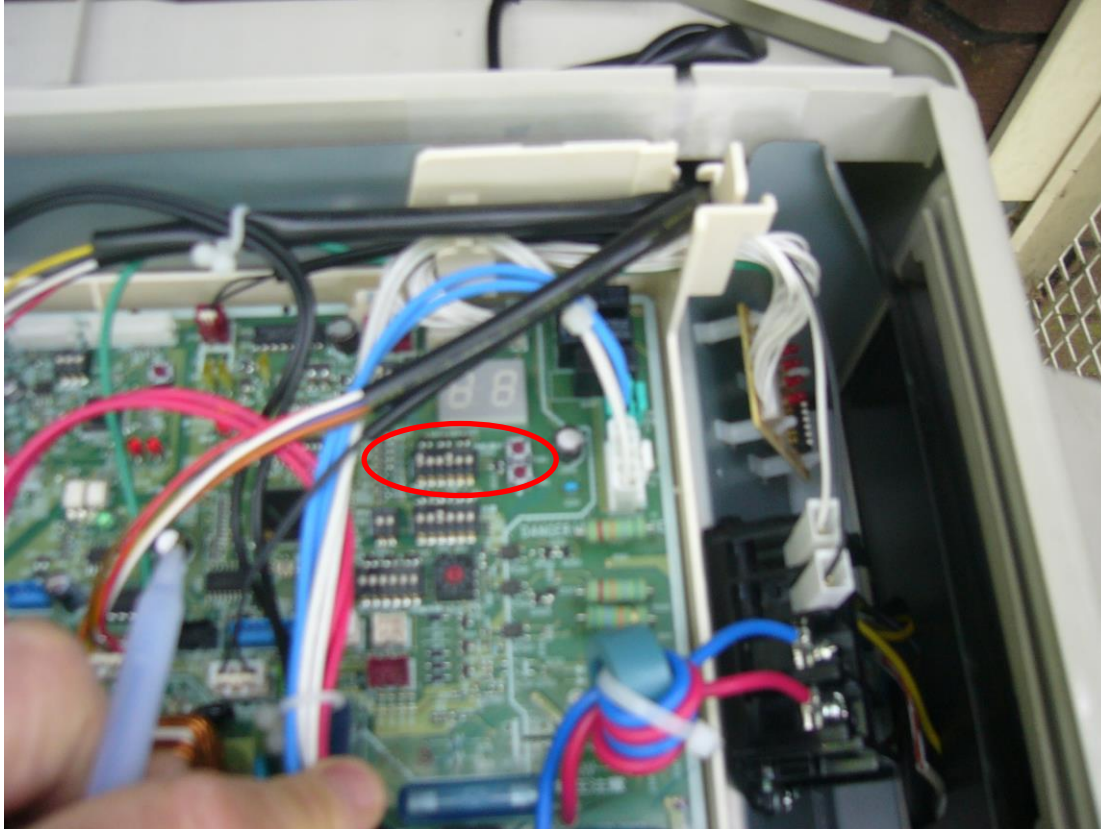
Remove the top cover of the condensing unit.

The main PCB is located underneath the protective metal panel. This is not held in with screws. The panel should just come off.



Locate Dipswitch **DSW2**. This should be adjacent to the two red Microswitches and below the 7 Segment Display





Set **DSW2** as follows:

Put DSW2 Pin 1 into the ON/UP position if the pipe run is less than 5 metres.

Put DSW2 Pin 4 into the ON/UP position to enable cooling in low ambient conditions.

Function		Setting position
Setting before shipment		ON <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> 1 2 3 4 5 6
Piping length	5 m < Lt	ON <input checked="" type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> 1 2 3 4 5 6
	Lt > 30 m	ON <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> 1 2 3 4 5 6
	5 m < Lt < 30 m	ON <input checked="" type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> 1 2 3 4 5 6
Enable cooling at low ambient conditions (-15°C)		ON <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> 1 2 3 4 5 6