

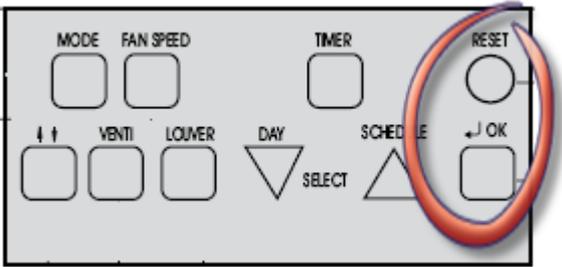
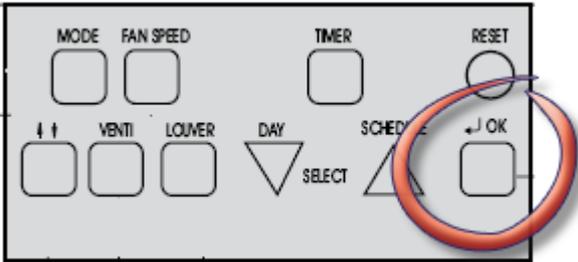
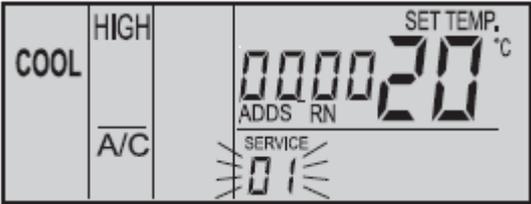
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Number	033
Subject	Computer Room Commissioning
Date	06 January 2010

This is a step-by-step guide to enabling additional functions on Hitachi Utopia products specifically for commissioning on the Comms Room Applications.

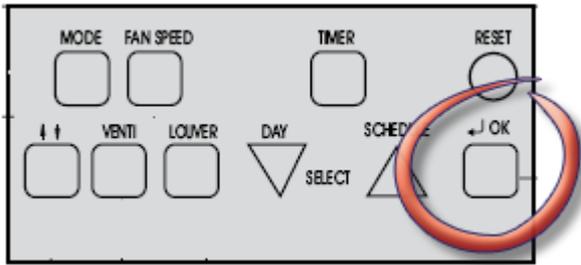
This commissioning guide will ensure the following status operations:

- | | |
|----------------------------------|-------------------------|
| Cooling Only | Low ambient cooling |
| Locked to 19°C | Low pipe run adjustment |
| Auto Restart after power failure | |

Instruction	Status
<p>1) Put the unit into COOLING and 19°C. Turn controller "OFF"</p>	
<p>2) Press "OK" and "RESET" together for more than three seconds</p> 	<p>Service Mode status "01" 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 "OK"</p> 	<p>Address "00" "00" 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 "00" "00" to "AA" "AA" (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"

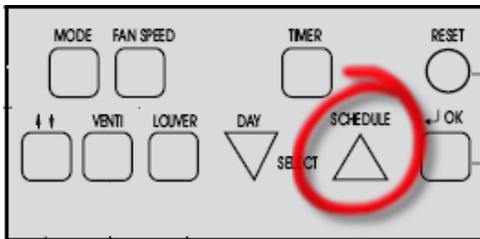


Optional setting "B1" will appear in top right window.

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"

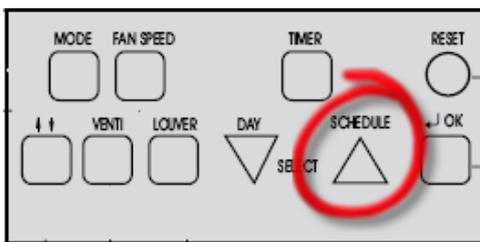
This will scroll to the required optional setting for "B5"

00 – Disabled
01 – Enabled

Status "00" will change to "01".

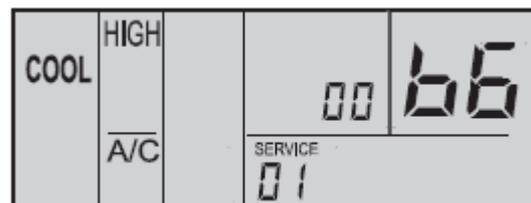


8) Press "SCHEDULE" once to scroll through to "B6" – Fixing the Set Temperature



Indication "B6" will appear in top right window.

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

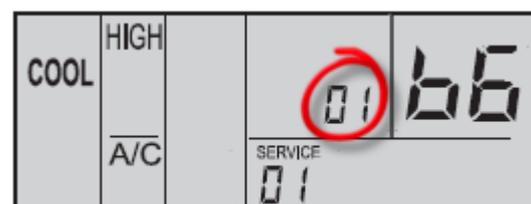


9) Press "OK"

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

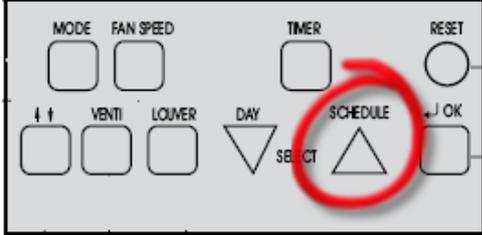
00 – Disabled
01 – Enabled

Status "00" will change to "01".



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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**”

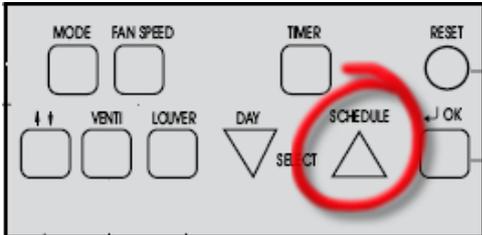
*This will scroll to the required optional setting for “**B7**”*

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**”

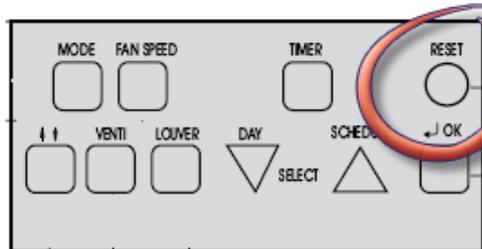
*This will scroll to the required optional setting for “**D3**”*

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 ”	Normal Operation. To test, press MODE button to ensure COOLING operation is locked and temperature button to ensure temperature is LOCKED.
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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
b4	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	
C8	Return Air Thermistor at Remote Controller	00	Not avail	Return Air Thermistor located in Remote Controller is activated.
		01	Available	
D1	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	
b9	Fixing the fan speeds	00	Not avail	Lock the fan speed setting on the remote controller
		01	Available	
Cb	Enforced Stoppage logic	00	Input A	Forced stoppage (Fire alarm) input from PCC-1A
		01	Input B	
		01	Available	

Outdoor Unit Settings – to be done before unit is installed

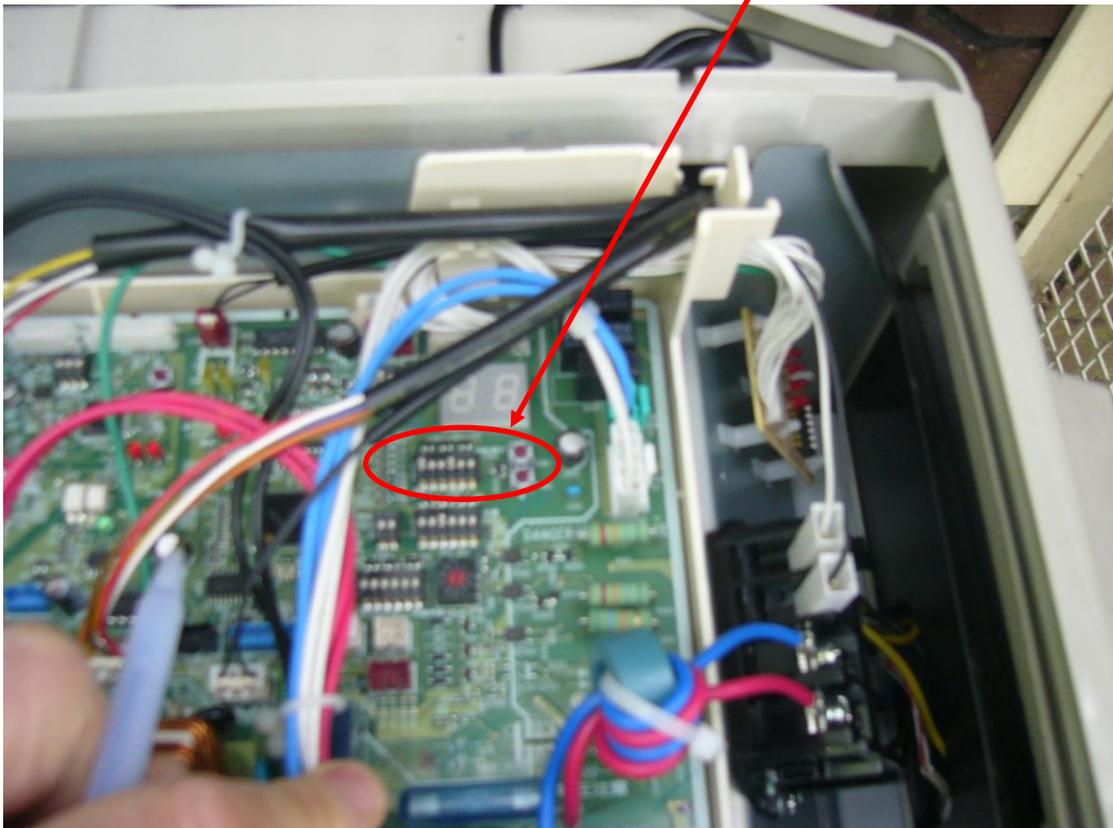
Remove the top cover of the condensing unit.

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

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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.

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Function		Setting position
Setting before shipment		ON ■ ■ ■ ■ ■ ■ 1 2 3 4 5 6
Piping length	5 m < Lt	ON ■ ■ ■ ■ ■ ■ 1 2 3 4 5 6
	Lt > 30 m	ON ■ ■ ■ ■ ■ ■ 1 2 3 4 5 6
	5 m < Lt < 30 m	ON ■ ■ ■ ■ ■ ■ 1 2 3 4 5 6
Enable cooling at low ambient conditions (-15°C)		ON ■ ■ ■ ■ ■ ■ 1 2 3 4 5 6