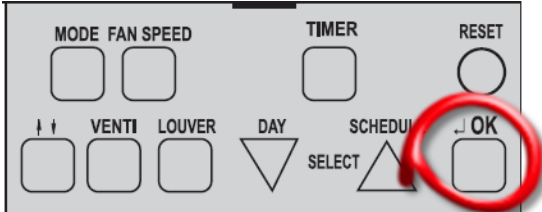

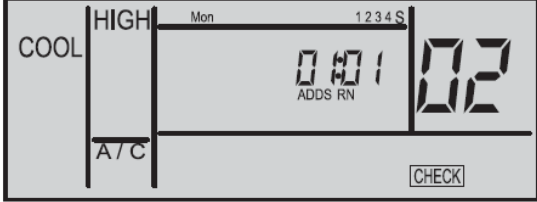
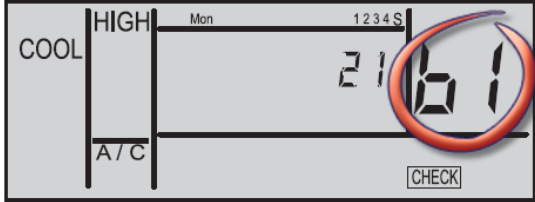


Technical Bulletin

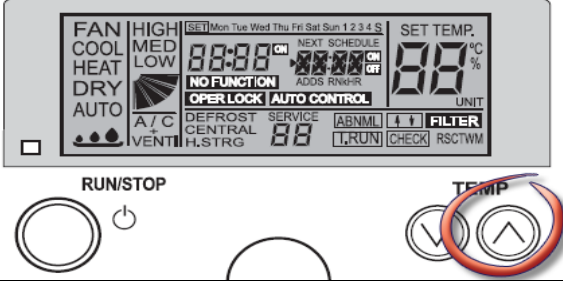
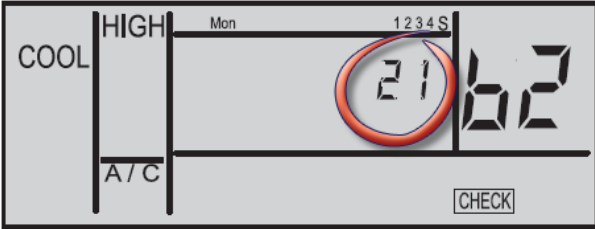
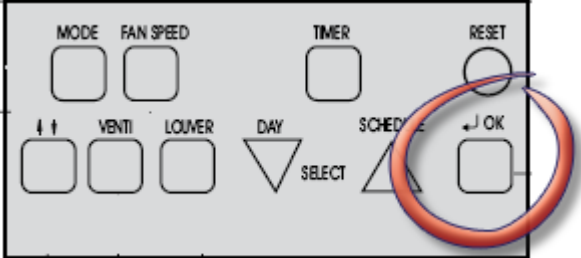
Number	036a
Subject	Hitachi Check Mode 01
Date	24 March 2014

This is a step-by-step guide to commissioning and diagnostics via Check Mode 01 on the Hitachi PC-P2HTE and PC-ART remote controllers.

This enables you to check temperatures, fault codes, expansion valves, running currents, frequencies, capacities etc:

Instruction	Status
1) The controller needs to be "ON" as you will be taking information from an operational system	
2) Press "OK" more than three seconds 	Service Mode status "01" will appear in the bottom window. 
3) The following display will appear. 	This details the following information. Indoor Unit address (ADDS) Remote Controller number (RN) Last Fault Code for this unit (Large number on right)
4) Press "OK" or wait seven seconds for the next screen. 	<i>This is the first diagnostic display for Service Mode 01.</i> "b1" is the Set Temperature on the Remote Controller

Technical Bulletin

<p>5) Press Temperature “UP” button to go to next diagnostic</p> 	<p><i>Note – pressing the Temperature “DOWN” button will take you to the previous diagnostic</i></p>
<p>6) “b2” Diagnostic will appear.</p> 	<p>“b2” is the Return Air Temperature indication.</p> <p>The smaller number in the larger box to the right of B2 is the actual return air temperature (circled)</p>
<p>5) To leave diagnostics/service mode 01, press “OK” for three seconds.</p> 	<p>If this does not return you back to the standard remote controller display, press “OK” twice more in quick succession.</p>

Temperature indication

1	Indoor unit temp. setting (°C)	b1	22
2	Indoor unit air inlet temp. at thermistor (°C)	b2	20
3	Indoor unit discharge air temp. at thermistor (°C)	b3	55
4	Indoor unit heat exchanger liquid pipe temp °C	b4	20
5	Temperature at remote sensor (°C)	b5	25
6	Outdoor unit ambient temp. (°C)	b6	10
7	Indoor unit heat exchanger gas pipe temp. (°C)	b7	25
8	Outdoor unit evaporating temp. during heating (°C)	b8	02
9	Control information	b9	--

Indication of micro-computer input/output

12	Micro-computer input/output in indoor unit	E1	4
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13	Micro-computer input/output in outdoor unit	E2	-
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Indication of unit stoppage cause

14	Cause of stoppage	d1	01
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Abnormal operation occurrence counter

15	Abnormal operation occurrence counter	E1	01
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16	Instantaneous power failure occurrence counter in indoor unit	E2	00
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17	Transmission error occurrence counter between remote control switch and indoor unit	E3	00
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18	Abnormal operation occurrence counter on inverter	E4	00
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Indication of automatic louver condition

19	Louver sensor	F1	00
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Compressor pressure/frequency indication

20	Discharge pressure (high) (x 0.1 MPa)	H1	18
21	Suction pressure (low) (x 0.01 MPa)	H2	04
22	Control information	H3	44
23	Operation frequency (Hz)	H4	44

Indoor unit capacity indication

24	Indoor unit capacity	J1	08
25	Outdoor unit code	J2	Fn
26	Refrigerant cycle number	J3	01
27	Refrigerant cycle number	J4	00

Expansion opening indication

28	Indoor unit expansion valve opening (%)	L1	20
29	Outdoor unit expansion valve MV1 opening (%)	L2	99
30	Outdoor unit expansion valve MV2 opening (%)	L3	99
31	Outdoor unit expansion valve MVB opening (%)	L4	00

Estimated electric current indication

32	Compressor Running Current (A)	P1	25
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Please contact Logicool for further information on diagnostics.

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Technical Bulletin