

HOUNÖ

MOUNTING INSTRUCTION – English

Replacing the ABB ACS55 0.37 kW and 0.75 kW frequency inverter with the Mitsubishi CS82S model or the KBVF-26D model

Visual Cooking®

1.06, 1.08, 1.10, 1.12, 1.16, 1.20, 2.06, 2.10, 2.14 and 2.20 models

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INTRODUCTION

Dear technician,

This mounting instruction contains information about how to replace the ABB ACS55 0.37 kW and 0.75 kW frequency inverter with the Mitsubishi FRCS82S model on one-fan ovens and with the KBVF-26D frequency inverter on two-fan ovens.

This mounting instruction is valid for the Visual Cooking 1.06, 1.08, 1.10, 1.12, 1.16, 1.20, 2.06, 2.10, 2.14 and 2.20 ovens.

We recommend that you read and familiarise yourself with the instructions in this document before you start working on the ovens. Please make the mounting instruction available to all who service and maintain the oven and retain it for future reference.

For more information about the ovens, please refer to the installation and service manuals. The latest version of the installation and service manual can be downloaded from www.houno.com.

NOTE! This document is subject to change without notice.

SAFETY INFORMATION



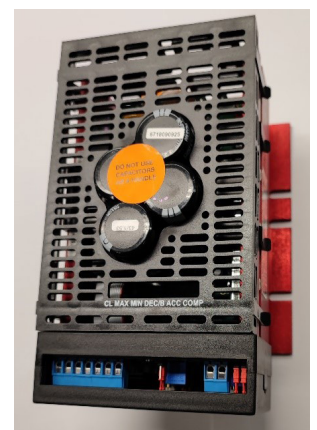
Read this document before using, installing or servicing the product. Installation and operation must comply with local regulations and accepted codes of good practice.



All maintenance and repair must be carried out by qualified installation and service technicians only. Installation and/or service by others than qualified service technicians may result in injury to the operator and/or damage to the oven.

TOOLS AND REQUIREMENTS

- Mitsubishi FR-CS82S frequency inverter for B, C, K, BPE, CPE and KPE ovens with one fan 1.06, 1.08, 1.10, 1.12, 2.06, 2.10, 2.14
Spare part kit, part number: 50000886
- KBVF-26D frequency inverter for B, C, K, BPE, CPE and KPE ovens with two fans 1.16, 1.20, 2.20
Spare part kit, part number: 50000888
- 4 mm drill
- 5 mm thread cutter
- Drilling machine
- Scissors



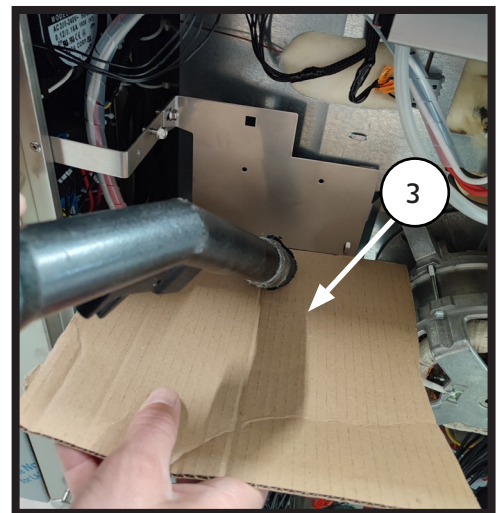
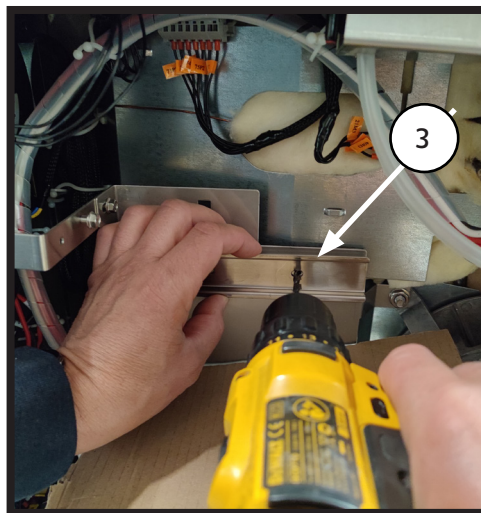
BEFORE REPLACEMENT

- Make sure the required tools are available.
- Unpack the spare part kit and check if all parts are available.
- The Mitsubishi FR-CS82S frequency inverter is preprogrammed from HOUNÖ. Therefore, you do not have to adjust the frequency inverter.

REPLACING THE FREQUENCY INVERTER

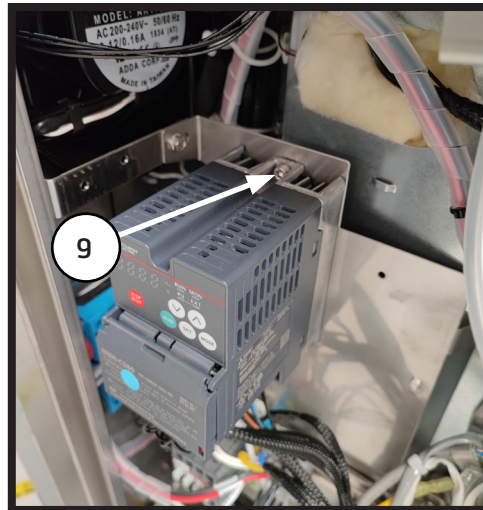
1. Switch off the power.
2. Remove the ABB ACS55 frequency inverter.
3. Remove the metal bracket that was holding the ABB ACS55 frequency inverter.

IMPORTANT! Before you drill out the pop rivets, place a cover such as a piece of card board over the main contactor to avoid drilling shavings to fall into the main contactor points.

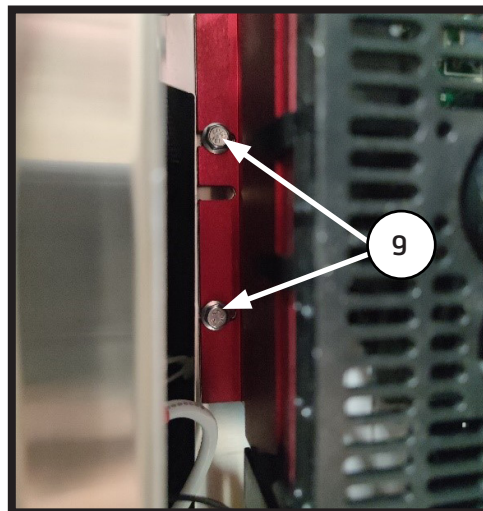
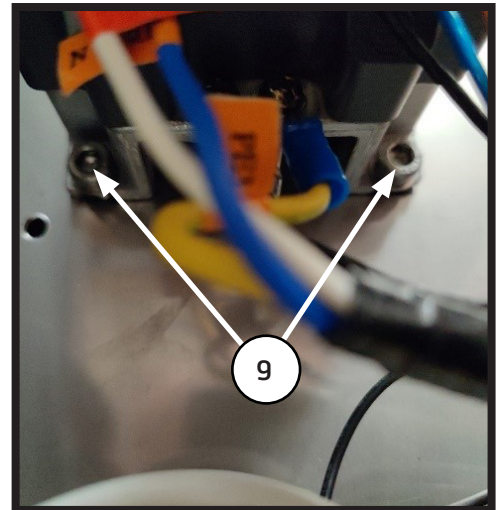


4. Cut out the template for either the KBVF-26D or the Mitsubishi frequency inverter.
5. Select one of the following templates from the spare part kit:
 - 50000847 Drilling template for electric 1.06, 108, 1.10, 1.12, 1.16, 2.06, 2.10, 2.14
 - 50000852 Drilling template for gas type III 1.06, 1.10, 2.06
 - 50000855 Drilling template for gas type III 1.20, 2.20
 - 50000857 Drilling template for Electrical 1.20, 2.20
 - 50000848 Drilling template instruction. Electric 1.06, 108, 1.10, 1.12, 2.06, 2.10, 2.14
 - 50000853 Drilling template instruction. Gas type III 1.06, 1.10, 2.06
 - 50000848 Drilling template instruction. Electric 1.06, 108, 1.10, 1.12, 1.16, 2.06, 2.10, 2.14
 - 50000858 Drilling template instruction. Electric 1.20, 2.20
 - 50000856 Drilling template instruction. Gas type III 1.20, 2.20
6. Hold the template in place and mark up the holes with a pen.
7. Drill the 4 mm holes and cut 5 mm threads in them.

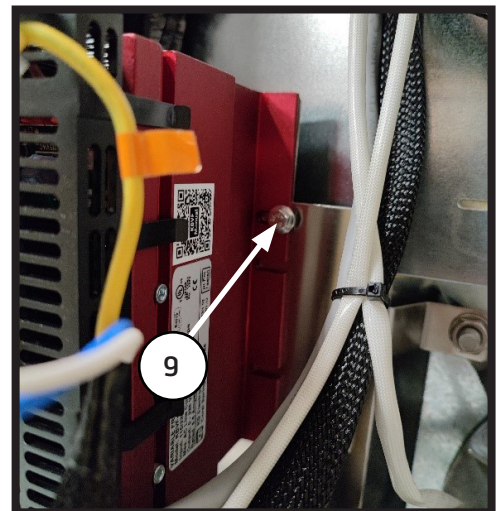
8. Place the frequency inverter.
9. Use the three M5x14 bolts and the three M5 washers to fit the frequency inverter on to the plate



Mitsubishi FR-CS82S frequency inverter

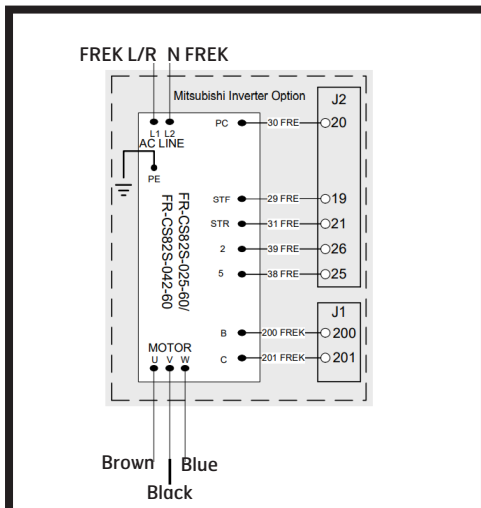
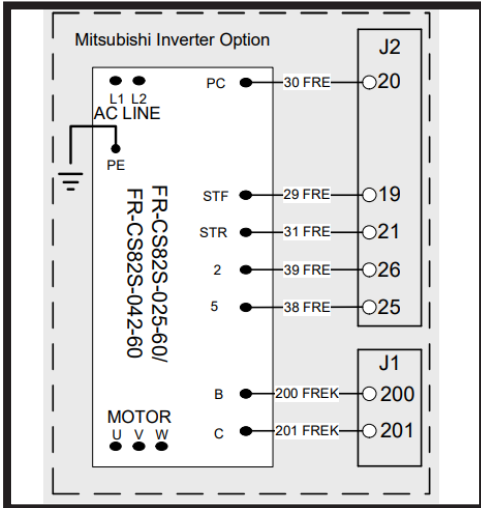


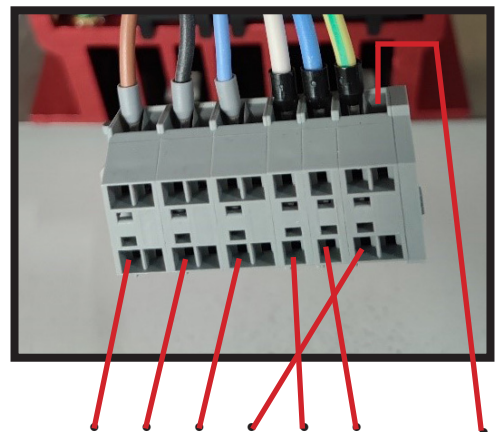
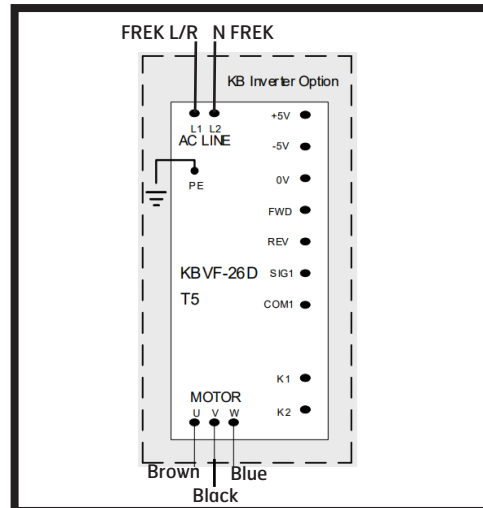
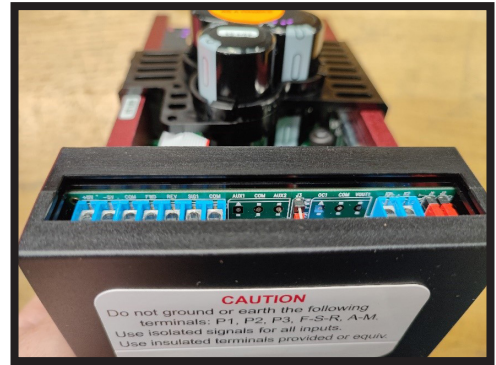
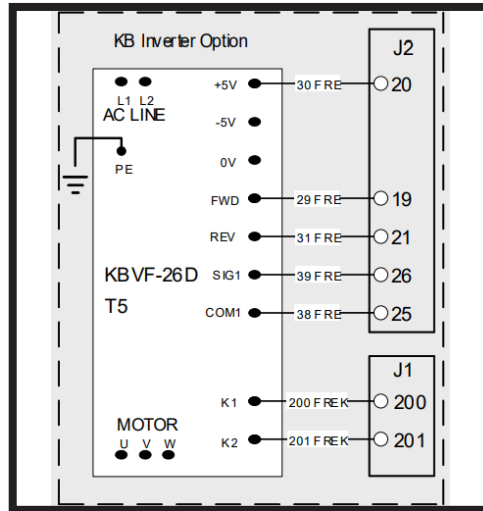
KBVF-26D frequency inverter



10. Connect the wires to the frequency inverter. See the diagrams below.

Mitsubishi FR-CS82S frequency inverter



KBVF-26D frequency inverter


- Motor wires
- Brown
- Black
- Blue
- Ground (black)
- FREQ L/R (white)
- N FREQ (blue)
- PE3 (yellow/green)

11. Switch on the power.
12. Test that the fan runs in both directions at both low and high speed.
13. After testing, the oven is ready for service.

STATUS MESSAGES ON MITSUBISHI FREQUENCY INVERTER

Operation panel indication		Name	
Error messages	<i>HOLD</i>	HOLD	Operation panel lock
	<i>LOCD</i>	LOCD	Password locked
	<i>Er 1</i> - <i>Er 4</i>	ER1-ER4	Parameter write error
	<i>Err.</i>	Err.	Error
Warning messages	<i>OLC</i>	OL	Stall prevention (overcurrent)
	<i>oLv</i>	oL	Stall prevention (overvoltage)
	<i>TH</i>	TH	Electronic thermal O/L relay prealarm
	<i>PS</i>	PS	PU stop
	<i>Uv</i>	UV	Undervoltage
Slight error	<i>iH</i>	iH	Inrush current limit resistor overheat
	<i>Fn</i>	FN	Faulty fan
Serious error	<i>EOC 1</i>	E.OC1	Overcurrent trip during acceleration
	<i>EOC 2</i>	E.OC2	Overcurrent trip during constant speed
	<i>EOC 3</i>	E.OC3	Overcurrent trip during deceleration or stop
	<i>EOV 1</i>	E.OV1	Regenerative overvoltage trip during acceleration
	<i>EOV 2</i>	E.OV2	Regenerative overvoltage trip during constant speed
	<i>EOV 3</i>	E.OV3	Regenerative overvoltage trip during deceleration or stop
	<i>E THT</i>	E.THT	Inverter overload trip (electronic thermal O/L
	<i>E THM</i>	E.THM	Motor overload trip (electronic thermal O/L
	<i>E FIn</i>	E.FIN	Heatsink overheat
	<i>E JLF</i>	E.JLF	Input phase loss
	<i>E OLT</i>	E.OLT	Stall prevention stop
	<i>E GF</i>	E.GF	Output side earth (ground)fault overcurrent
	<i>E LF</i>	E.LF	Output phase loss
	<i>E OHT</i>	E.OHT	External thermal relay operation
	<i>E PE</i>	E.PE	Parameter storage device fault
	<i>E PUE</i>	E.PUE	PU disconnection
	<i>E RET</i>	E.RET	Retry count excess
	<i>E 5</i>	E.5	CPU fault
	<i>E CPU</i>	E.CPU	
	<i>E CDO</i>	E.CDO	Abnormal output current detection
<i>E IOH</i>	E.IOH	Inrush current limit circuit fault	
<i>E E 10</i>	E.E 10	Inverter output fault	



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