Service Bulletin

SB094

INVERTER JUMPER SETTINGS

1. Models Affected:

This bulletin applies to Indoor Control Box Assemblies for:

GCLDCI9, 12, 18 & 24,
WMZDCI9, 12 & 17,

the STORM PCB's for:

KLDCI12 & 18
SXLDCI12 & 18.

the Outdoor Inverter Power Modules for:

GCLDCI9, 12, 18, 24 & 30
GCZLDCI9, 12, 17
DUODCI5RC

Note that the XLLDCI30 / GCLDCI30 uses jumpers for site-specific functionality only.

2. Issue:

These modules all use jumpers to identify the exact model.
Jumpers are the shorting clips that are fitted between two pins on a printed circuit board. They may be a single shorting clip, or they may be implemented as a "model plug" - a set of jumpers assembled into one plug.
An example of the issue is as follows:

the same Control Box Assembly is used in the XLLDCI9 and the XLLDCI12. However the Jumper settings for the XLLDCI9 differ from the Jumper settings of the XLLDCI12.

WHEN REPLACING THESE MODULES,

THE INSTALLER MUST SET THE CORRECT JUMPERS.

This can usually be accomplished by copying the jumper settings from the original module to the replacement module.

3. Standard Jumper Settings:

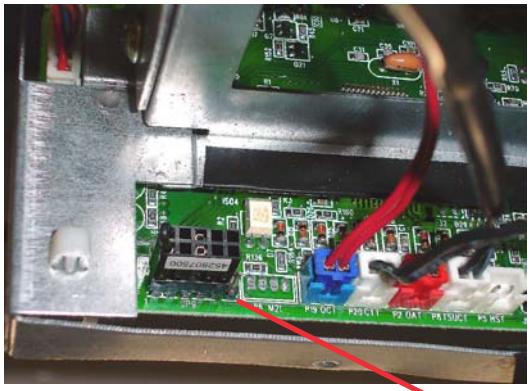
The standard jumper settings for each of the above models is tabulated on the following pages of this bulletin.

Site-specific functionality may require additional jumpers. For example, Presence Detection or Power Shedding may be implemented, in which case a site-specific jumper has to be set. Hence it is most important that the jumper settings on the original module be copied to the replacement module.

For a complete definition of the jumper usage for each model, please contact Technical Support.

INVERTER JUMPER SETTINGS

4.1 Location of Outdoor Unit Jumpers:

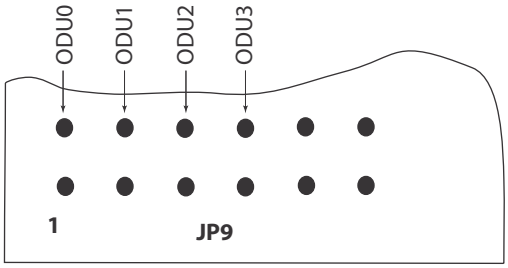


BOTTOM VIEW OF GCLDCI9, 12
INVERTER POWER MODULE

BOTTOM VIEW OF GCLDCI18, 24
INVERTER POWER MODULE

JUMPERS

4.2 Identification of Outdoor Unit Jumpers:



4.3 Standard settings of Outdoor Unit Jumpers:

MODEL	ODU 0 Pins 1 & 2	ODU 1 Pins 3 & 4	ODU 2 Pins 5 & 6	ODU 3 Pins 7 & 8
GCLDCI9RC	SHORTED	OPEN	OPEN	OPEN
GCLDCI12RC	OPEN	SHORTED	OPEN	OPEN
GCLDCI18RC	SHORTED	SHORTED	OPEN	OPEN
GCLDCI24RC	OPEN	OPEN	SHORTED	OPEN
GCLDCI30RC	OPEN	OPEN	OPEN	OPEN
GCZLDCI9RC	OPEN	SHORTED	OPEN	OPEN
GCZLDCI12RC	SHORTED	SHORTED	OPEN	OPEN
GCZLDCI17RC	OPEN	SHORTED	SHORTED	OPEN
DUODCI5RC	SHORTED	OPEN	SHORTED	OPEN

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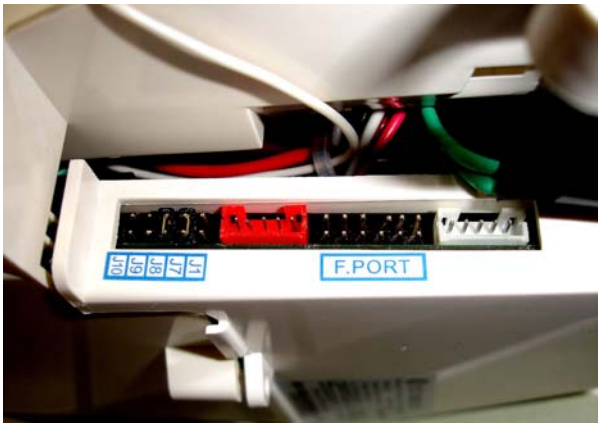
5. Indoor Unit Jumpers - XLLDCI High Walls:

5.1 Indoor Unit Jumper locations:

The jumpers are located on the Control Box, under the right-hand edge of the box assembly, as shown by the photo's below.

On the Control Box Assemblies, the Jumpers are clearly labelled, as can be seen in the photo's.

BOTTOM VIEW OF XLLDCI9, 12 CONTROL BOX ASSEMBLY



BOTTOM VIEW OF XLLDCI18, 24 CONTROL BOX ASSEMBLY

5.2 XLLDCI Indoor Unit standard jumper settings:

Note that not all jumpers appear on each model.

	J1	J2	J6	J7	J8	J9	J10
XLLDCI9RC	#	NU	OPEN	NU	#	#	NU
XLLDCI12RC	#	NU	SHORTED	NU	#	#	NU
XLLDCI18RC	#	NU	NU	OPEN	OPEN	#	#
XLLDCI24RC	#	NU	NU	SHORTED	OPEN	#	#
XLLDCI30RC	#	NU	NU	OPEN	OPEN	#	#

Note: **#:** Indicates that this jumper position is for Installation-specific functionality. Fit a jumper to the new PCB only if there is a jumper in this position on the old PCB.

NU: Indicates a Jumper position that is not used on that particular model.

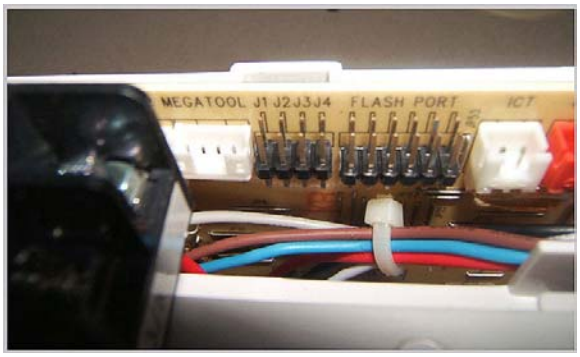
INVERTER JUMPER SETTINGS

6. Indoor Unit Jumpers - WMZDCI High Walls:

6.1 Indoor Unit Jumper locations:

The jumpers are located on the Control Box, under the right-hand edge of the box assembly, as shown by the photo below.

On the Control Box Assemblies, the Jumpers are clearly labelled, as can be seen in the photo.



BOTTOM VIEW OF WMZLDCI9, 12 CONTROL BOX ASSEMBLY

6.2 Standard settings of WMZDCI Indoor Unit Jumpers:

	J1	J2	J3	J4
WMZLDCI9RC	OPEN	OPEN	OPEN	SHORTED
WMXLDCI12RC	OPEN	OPEN	SHORTED	OPEN
WMZLDCI17RC	OPEN	SHORTED	OPEN	OPEN

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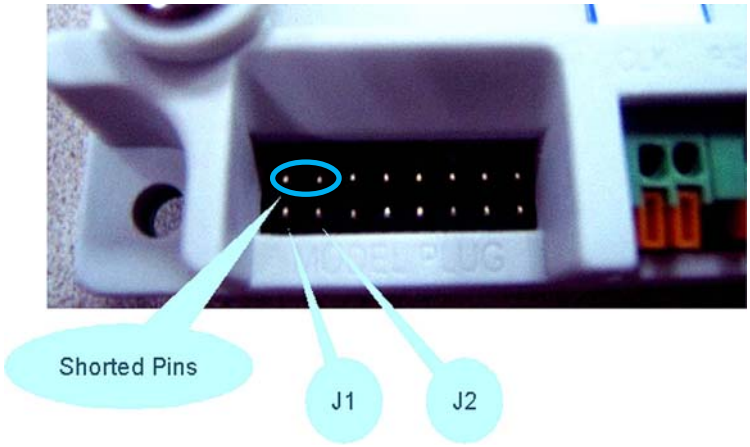
7. Indoor Unit Jumpers - Cassettes & Consoles:

7.1 Indoor Unit Jumper locations:

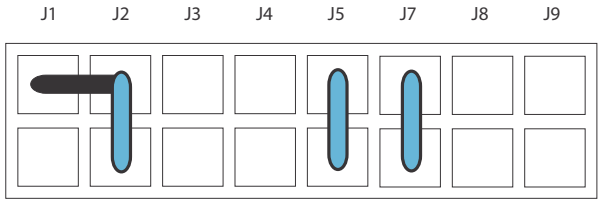
Cassettes & Consoles use a DCI version of the Storm Board. On these PCB's, the jumpers are located in the usual Model Plug position, which is in the lower right corner when the board is held with the transformer at the top. Note that, on the DCI Storm PCB's, the jumpers are implemented using a Model Plug. Also, note that the inner pins of J1 and J2 are ALWAYS shorted together, as shown below.

CORNER OF KLDCI and SXLDCI STORM PCB



7.2 Identification of DCI Cassette & Console Jumpers

The example below shows a DCI Model Plug, indicating the locations of the jumpers, and showing the fixed short between J1 and J2. The other jumpers shown are those for an SXLDCI12RC.



7.3 Standard settings of DCI Cassette & Console Jumpers:

	J1	J2	J3	J4	J5	J7	J8	J9
CASSETTES								
KLDCI12RCA	OPEN	SHORTED	SHORTED	SHORTED	SHORTED	SHORTED	OPEN	OPEN
KLDCI18RCA	OPEN	SHORTED	SHORTED	SHORTED	SHORTED	OPEN	SHORTED	OPEN
CONSOLES								
SXLDCI12RCA	OPEN	SHORTED	OPEN	OPEN	SHORTED	SHORTED	OPEN	OPEN
SXLDCI18RCA	OPEN	SHORTED	OPEN	OPEN	SHORTED	OPEN	SHORTED	OPEN