



CHANGE NOTIFICATION: HAPPIJAC BED-LIFT CONTROLLER COMPONENTS

July 28, 2021

Dear Valued Customer:

In our continuing efforts to improve the products we provide to you we have made the following changes to the Happijac Bed-lift Control Components. The information below outlines these changes and their impact on new installations as well as repairing or retrofitting existing systems.

PURPOSE OF CHANGE:

These changes have been made to improve reliability and provide greater protection/isolation from possible ground fault failures resulting from moisture or condensation within these components.

DESCRIPTION OF CHANGE:

In previous and current versions of the Bed-lift Controls, the activation relay within the Control Module is activated by supplying a ground contact to the negative sides of the bidirectional relay coil when the Up/Down wall switch is activated. This in turn activates the bed-lift motor and moves the bed platform in the selected direction. This ground circuit is provided to the Up/Down switch from the Control Module via the RJ (phone style) cable running between the Control Module and the Switch Circuit Board. In the new version this ground from the Control Module has been removed and the ground contact to activate the bed-lift is supplied directly at the Up/Down Switch Circuit Board; this eliminates any possibility of a ground short within the RJ cable or the RJ cable connectors at either end as a result of a shorted cable or moisture compromised connections.

IMPLEMENTATION OF CHANGE:

This change will be implemented as a running change and involves an update to the bed lift Control Module and Switch Circuit Board. We currently anticipate this changeover to occur around mid to late August 2021. During this changeover the Control Module housing will continue to be white in color but will be marked with the new part number, as well as a black square on the side of the module between the limit switch connectors. Eventually, the updated Control Module will have an ALL BLACK housing. This is to facilitate easy identification by service technicians as being the new style control module without having to access the part number label which is on the bottom of the module. The Switch Circuit Board will change from green to black to identify the updated components.

The following pages illustrate these changes.

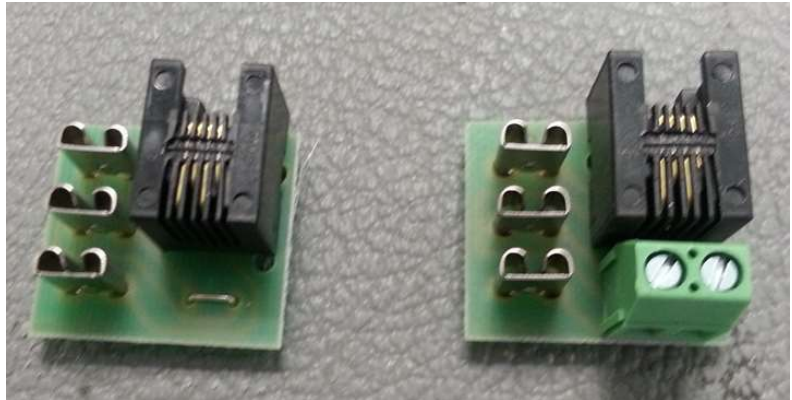
OLD (pre-change) CONTROL COMPONENTS:

Switch Circuit Board

Control Module (Part# 149663)

Part# 149664

Part# 183349



Standard

With optional ON/OFF Switch header

NOTE: White Enclosures

NOTE: Green UP/DOWN switch circuit boards

NEW CONTROL COMPONENTS (Interim):

Control Module (Part# 2021034400)

Switch Circuit Board (Part# 2021034402)



NOTE: White Enclosure with Black Side Marking

NOTE: Black Circuit Board

NEW CONTROL COMPONENTS (Final):

Control Module (Part# 2021034400)



NOTE: Black Enclosure

Switch Circuit Board (Part# 2021034402)



NOTE: Black Circuit Board

INSTALLATION IMPACT:

Installation of the new Bed-lift Control system will require the addition of a wire from chassis ground to the Switch Circuit Board on the Up/Down switch as shown in the illustration below. This wire needs to be no more than 22 gauge and terminated with a female disconnect. (See PHOTO below). The remainder of the installation is unchanged.



FIELD REPAIRS / RETROFITS:

ATTENTION: Old control modules will not work with the new switch circuit board and the new control modules will not work with the old switch circuit boards.

When performing field repairs to the Control System which requires the replacement of either the Switch Circuit Board or the Control Module, compatibility MUST BE maintained and will therefore require replacing both the Control Module and the Switch Circuit Board. If upgrading to the new Switch Circuit board, the ground wire will need to be installed at the Switch Circuit Board. This is because the ground to the switch will no longer be provided through the RJ cable.

PART NUMBER COMPATIBILITIES:

Controller part number 149663 must use Switch Circuit Board 149664 or 183349 (if using on/off switch).

Controller part number 2021034400 must use Switch Circuit Board 202134402

FREQUENTLY ASKED QUESTIONS:

1. Are the new PNP Control Module and older Switch Circuit Boards compatible?
NO. If replacing one component, both must be replaced.
2. How can I tell an old Switch Circuit Board from a new Switch Circuit Board?
The old switch circuit boards are green, the new switch circuit boards are black.
3. Does it matter where I run the chassis ground wire that connects to the new Switch Circuit Board?
NO. Anywhere you can access chassis ground will work.
4. What is the easiest way to identify if I'm working with an old or new style Control Module?
Old style control modules will have an all white housing. New style will either be an all black housing or a white housing with a large black square between the limit switch connectors.
5. Will new part numbers be required?
 - a. All bed lift mechanism part numbers will remain unchanged. The new control module (2021034400) will be supplied as part of the bed lift mechanism
 - b. Part number 232727 (BLACK up/down switch) will be unchanged. The new switch circuit board (202134402) will be included as part of this switch assembly.
 - c. Part number 149664 and 183349 will be discontinued - replaced by part number 202134402
 - d. Part number 149663 will be discontinued – replaced by part number 2021034400
6. Does the customer need to replace inventory? NO. However, PNP Control Module part number 149663 must be used with a green Switch Circuit Board (part numbers 149664 or 183349); and PNP Control Module part number 2021034400 must be used with the black Switch Circuit Board (part number 202134402).
7. Are there any differences in the way the customer operates the Happijac bed lift? No, the bed lift will function the same as before.

If you have any questions or concerns, please do not hesitate to contact us. We appreciate your business and thank you for your continued support of Happijac products.

Sincerely,

Aaron Rasmussen

General Manager

LCI plant #48 (Happijac)