



HAPPIJAC®

A Division of Lippert Components, Inc.

BED-LIFT TROUBLESHOOTING & REPAIR NOTES

BEDS ARE STUCK IN THE FULL UP OR DOWN POSITION

SCENARIO 1: This is the first time the dealer has tried to move the beds.

The problem is most likely a wiring error from the trailer manufacturer. What the trailer manufacturers sometimes do is wire +12 and ground backward then rather than fixing that problem, they turn the wall switch over to get the beds to run the right direction. In so doing, the micro switches are operating in reverse to the bed travel. Therefore, when the bed reaches the upper limit, it thinks it's sitting in the lower limit and will not come down

SOLUTION: Reverse the +12 and ground in the POWER plug at the PNP control module, then rotate the pc board on the wall switch 180 degrees.

SCENARIO 2: The beds have worked previously but are not working now.

Q: Do you hear a click up near the motor when you press the down switch?

Yes - Could be the brake is not releasing. (Remove brake and try again)

Could be the relay contact are not closing (Replace PNP module)

No – Most likely a problem with the lower micro switch circuit.

- a) bad connection in the red 2 pin connector. (Use a knife blade to press wires back tightly into connector shell.
- b) Bad micro switch (Should be normally closed, if reads open, replace)
- c) Cut or pinched wire between switch and connector. (Repair break in wire.

Troubleshoot by removing the 2 pin red connector from the PNP module and jumper across the pins protruding from the module. If the beds go down the problem is definitely in the micro switch circuit. If they do not, the problem is either with the wall switch, the line to the wall switch or the PNP control module.

BEDS WILL GO DOWN BUT NOT UP.

SCENARIO 1: The beds are stuck in the bottom most position.

Refer back the section above to troubleshoot this problem.

SCENARIO 2: The beds will not move up from any position.

The most likely causes of this problem in their order of occurrence are;

- a) Brake is not releasing. (Weight of beds will overcome brake downward but not upward) If a click can be heard at the motor or PNP module but the beds won't move this is most likely the cause.)
- b) Upper limit switch circuit is defective (No click heard when switch is pressed)
(check connector and micro switch)
- c) PNP module defective (may or may not hear a click)
- d) Problem with wall switch or phone cord to wall switch (including possibility of wrong pin-out)
(There will be no click heard at motor or PNP module.)

BEDS DRIFT DOWNWARD OVER TIME.

There are only 2 possible causes for this problem. Manual brake release is not set properly or the brake is defective.

BEDS WILL NOT GO UP ALL THE WAY WITHOUT STOPPING.

This problem is most prevalent on Forest River Dinette Units. These are excessively heavy units and to make matters worse have a great deal of storage space in them. To troubleshoot this problem:

1. Ask what is being stored in the dinette unit. This should only be linens and light items 30# max. If the storage contains canned goods, pots and pans, firewood, etc., tell them to remove these items then try again.
2. If the unit still fails to go full stroke before tripping out the auto reset device in the PNP module, send out one of the "special" higher amperage modules.

BEDS ARE NOT EVEN SIDE TO SIDE:

Most likely, the timing (connecting) shaft installed incorrectly. To correct this, the load must first be removed from the mechanism.

1. Unpin and remove the lower bed platform from the mechanism.
2. Loosen the set screw in the connecting shaft at the motor end.
3. Draw the non-motor end of the connecting shaft back from the mechanism.
4. Set the bed trolleys at both sides at the same height then reinstall shaft and tighten set screw.
5. Replace bed platform.

BEDS ARE NOT EVEN ON THE SAME SIDE (ONE CORNER LOWER):

Most likely problem is an **unbiased sprocket**. To determine this, have them sit on that corner and see if it moves down or is solid. If it moves it is a broken sprocket. The only option here is to determine if it is a long or short sprocket, send out a replacement then have someone talk them through the replacement.

To replace a sprocket:

1. Remove both bed platforms.
2. Loosen the chain tensioning nut on the bottom of vertical channel.
3. If the bad sprocket is on either corner adjacent to the connecting shaft, remove it.
4. If the bad sprocket is behind the motor remove the motor after removing connecting shaft.
5. Remove the 4 screws holding the top (cross chain) cover to the vertical leg.
6. Carefully pull the cover back away from vertical leg without pulling out the sprocket.
7. Pull out the sprocket being careful not to let the weight of the chain pull it from your hand.
8. Slip a finger between the chain and the sprocket and remove the sprocket from the chain.
9. Insert the new sprocket in place of the one removed.
10. Reinsert the sprocket into the vertical rail.
11. Replace the top (cross chain) cover, and motor if removed.
12. Reinstall the connecting shaft making sure trolleys are at the same height at both sides of trailer.
13. Reinstall bed platforms.

When weight is applied if the bed is solid (does not spring down) , then **the chain has jumped timing**. This is the result of a loose chain, which in turn is usually the result of damage to the pulley support bracket caused by the beds slamming into sofas or other obstructions. (This is not a warranty issue)

To repair this problem:

1. Remove the lower bed platform.
2. Tighten the chain so tension is equal to that of the other 3 corners.
3. Remove the two screws holding the drive trolley to the chain.
Note: (There is a file in the Email Folder showing how to move the chain clamp)
4. Reposition the chain clamp so the drive trolley is at the same height as the other 3 corners.
5. Reattach the trolley to the chain clamp.
6. Replace the bed platform.

TROLLEY TABS AND OR BED RAILS ARE BENT AND OR BROKEN:

SCENARIO 1: This has happened on the upper bed only:

Most likely cause is that the beds were left in the down position during travel and the bunk bounced continuously on the bunk stops. This would not normally be a warranty issue.

Another possible cause would be that the beds were raised to the ceiling with some obstruction on the bed.

SCENARIO 2: This has happened on the bottom bunk / sofa bed.

Most likely cause is overloading particularly in the case of a sofa bed. 600 lb. static capacity was exceeded.