

5.3.5 SECURITY DEVICES

5.3.5.1 PROTECTION AGAINST UNAUTHORIZED ACCESS

The controller is equipped with a safety device to protect the system against unauthorized access, **through activation in "ON" position of the key switch located on the panel Picture 4.A; with the key in position "OFF" the system is blocked. Turn the key in "ON" position to unblock the protection and make the normal functions.**

5.3.5.2 WARNING STATUS FOR SAFETY LOCK

While the vehicle is running the bed can be secured with specific belts in order to ensure safety conditions. The safety belts have an internal closed contact that can be used to differentiate between the status "safety belt fastened" and "safety belt not fastened". Picture 3.A shows how to connect the belts, identified by the description "safety belts".

ATTENTION!

Always block the bed on the highest limit before inserting the safety belt. The non observance of the rule could modify the lowest stop position

The different models have been designed and manufactured keeping in mind all the main standards of safety, to reduce and / or cancel any element of risk connected with the operation. In particular, it is important to point out the existence of the following safety devices:

5.4 MECHANICAL DEVICES:

Bed lifting systems come with an unlocking device or MANUAL ACTIVATION device which makes it possible to operate the system manually; it is a crank device inserted in the motor (TAB. B) that lifts and lowers the bed ONLY IN CASE OF EMERGENCY.

ALWAYS DISCONNECT FROM POWER BEFORE PERFORMING ANY OPERATION ON THE BED LIFTING SYSTEM.

5.4.1 MOTOR PROTECTION SYSTEM

The bed lifting system comes with a protection system for the electric motor against mechanical overload that could affect the motor while running.



**DO NOT STAND IN THE BED LIFTING SYSTEM OPERATION AREA
IT IS STRICTLY FORBIDDEN TO OPERATE THE SYSTEM WHILE PEOPLE ARE ON IT.**

**IT IS HOWEVER STRICTLY FORBIDDEN TO BE ON THE BED LIFTING SYSTEM
WHILE BEING OPERATED.**

The different models have been designed and developed so to reduce or eliminate risks related to squashing and shearing. Risks related to bed lifting system operation are, however, virtually eliminated by the weak squashing forces.



**DO NOT REACH THE BED LIFTING SYSTEM COMPONENTS WHILE BEING OPERATED
THE BED MUST BE FIXED TO THE SAFETY BELTS**

6.0 START-UP AND TESTING

The product is delivered to the customer fully tested and ready for start-up. Start-up operations and product testing shall be carried out - once the system has been mounted on the vehicle - by specialized staff in order to reduce risks related to product start-up.

All start-up and testing operations shall be carried out by skilled and authorized staff.

7.0 APPLICATION FIELD AND PURPOSE

The product shall only and EXCLUSIVELY BE USED for the purpose for which it was developed, namely lift and lower a bed frame inside of leisure vehicles.

The Manufacturer shall be held harmless for any possible damages due to improper, unskilled or unreasonable use.

The user shall comply with current safety regulation in force in the installation country and also to common sense rules and make sure regular maintenance is performed correctly.

The installer, user or maintenance technician shall inform the Manufacturer about any possible defects or deterioration that might compromise the original safety of the system.

In case of commercial components mounted on the product, the component manufacturers are liable; the customer is liable for authorized staff using the product.

8.0 IMPORTANT INFORMATION

- SAFETY DEVICES SHALL NOT BE TAMPERED WITH FOR ANY REASON.
- IT IS STRICTLY FORBIDDEN TO BE ON THE BED LIFTING SYSTEM WHILE BEING OPERATED.
- DO NOT INTERFERE WITH THE BED LIFTING SYSTEM WHILE OPERATED, NEITHER WITH ANY OBJECTS NOR WITH HANDS.
- BEFORE STARTING THE VEHICLE ENGINE AND DRIVE ALWAYS MAKE SURE THE BED LIFTING SYSTEM IS IN ITS HIGHEST POSITION AND THE SAFETY BELTS ARE FASTENED (EXCLUDING GARAGE BED).
- DO NOT OPERATE THE SYSTEM IMPROPERLY (E.G. WITH PEOPLE ON IT).
- THE BED LIFTING SYSTEM SHALL ONLY BE USED BY ADULT AND RESPONSIBLE STAFF.
- IT IS FORBIDDEN TO USE THE BED LIFTING SYSTEM WHILE THE VEHICLE IS RUNNING.
- DO NOT MOVE THE BED LIFTING SYSTEM IF PEOPLE OR ANIMALS OR THINGS ARE AROUND, UNDER OR ON IT.
- ALWAYS COMPLY WITH THE BED LIFTING SYSTEM MAXIMUM LOAD CAPACITY, I.E. 400 KG IN STATIC CONDITIONS.
- NEVER LIFT WEIGHTS THAT OVERCOME THE BED LIFTING SYSTEM MAXIMUM LOAD, I.E. 60 KG IN DYNAMIC CONDITIONS PEOPLE OR ANIMALS ARE NOT INCLUDED AND THEY MUST NOT BE ON THE BED WHEN THE SYSTEM IS OPERATING -
- THE BED LIFTING SYSTEM MUST NEVER BE USED WHILE THE VEHICLE IS RUNNING
- IT IS FORBIDDEN TO START THE BEDLIFT SYSTEM MANUALLY WITH DISCONNECTED WIRES FROM MOTOR UNIT TO CONTROL UNIT
- SHOULD THE MECHANISM NOT WORK, DO NOT USE THE BED AND ASK FOR ASSISTANCE TO THE NEXT SERVICE CENTER

9.0 MAINTENANCE AND CLEANING

In order to ensure safe use of the bed lifting system without problems and in safe conditions for the operators, it is **COMPULSORY** to follow the control and maintenance plan provided in this chapter.

Complying with regular maintenance norms - as well as monitoring the main bed lifting system components - is crucial to detecting any possible anomalies before they take place and necessary in order to avoid anomalies where and how necessary.

The different bed lifting system models have been designed and developed in such a way to reduce maintenance operations.

9.1 MAINTENANCE OPERATIONS

Before starting maintenance operations, make sure the vehicle is parked and secured.

After ascertaining vehicle stability, disconnect the electric system of the bed lifting system from the vehicle battery.

1. **Regular sight analysis of the belting and of the wall fastening elements (once a year)**
2. **Check-up of motor and shafts coupling (once a year)**
3. **Write on the "bed lifting system control register" (Annex 1) the regular checks carried out and the number of cycles performed by the system detected by the control unit as described at point 8.2.6**
4. **Note on the "lifting mechanism control register" (Annex. 1) the number of cycles done by the DEVICE and detected BY the control unit as described in point 7.8 of the installation manual - VALID ONLY FROM UPDATE FW 2.2 -**

It is however necessary to comply with the following general rules:

- Emergency and/or temporary repair operations shall never be carried out by unskilled and unauthorized staff.
- Keep the bed lifting system clean and tidy.
- Always preserve the bed lifting system completeness.

More complex operations shall be carried out by specialized staff.

10.0 DISASSEMBLING AND DEMOLITION

The Manufacturer designed and developed bed lifting systems having a life of at least 500 intermittent working hours and **however only if the maintenance guidelines provided in this manual are complied with.**

Disconnect the bed lifting electric system from the vehicle battery before starting disassembling procedures.

The bed lifting system main parts must be disassembled. Only operate with hand gloves and Individual Protection Devices (IPD) in order to avoid any possible squashing, shearing, cutting.

After finishing disassembling and sorting the components, hand them to authorized companies for disposal.

Disassembling and demolition operations shall be performed by skilled and authorized staff.