



HAPPIJAC®

BY  **LIPPERT™**

HAPPIJAC®

WIRELESS REMOTE

OWNER'S MANUAL

Not Approved for Public Release
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Introduction

The Happijac® Wireless Remote enables users to extend and retract camper jacks via the remote.

Safety

Read and understand all instructions and safety labels outlined in this manual before operating the system. Contact LCI Customer Service if there are questions or concerns about the procedures in this manual.

▲WARNING

The "WARNING" symbol above is a sign that a procedure has a safety risk involved and may cause death or serious personal injury or severe product and/or property damage if not performed safely and within the parameters set forth in this manual.

▲WARNING

Failure to follow instructions provided in this manual may result in death or serious personal injury or severe product and/or property damage, including voiding of the component warranty.

▲WARNING

Camper **MUST** be supported per manufacturer's recommendations before working underneath. Failure to do so may result in death or serious personal injury or severe product and/or property damage.

▲CAUTION

The "CAUTION" symbol above is a sign that a procedure has a safety risk involved and may cause personal injury or product and/or property damage if not performed safely and within the parameters set forth in this manual.

▲CAUTION

Moving parts can pinch, crush or cut. Keep clear and use caution.

Preparation

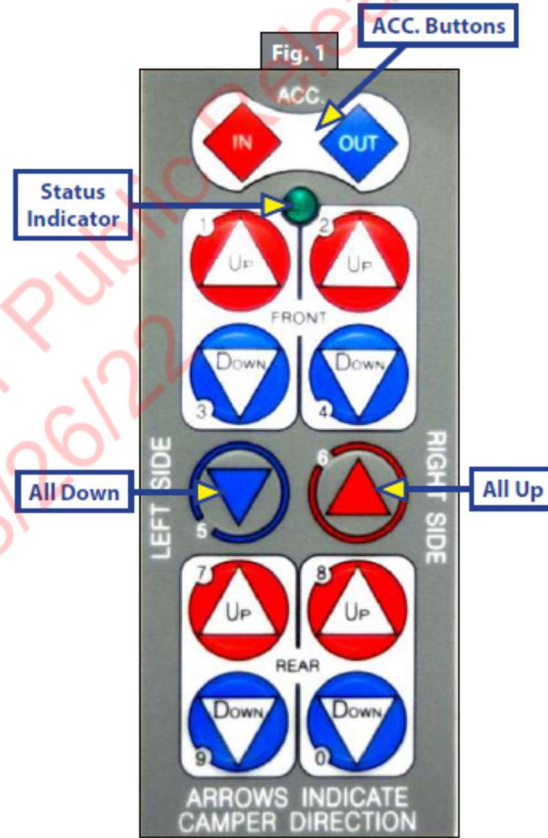
Initializing the System

1. To initialize the remote, press buttons 5 and 6 — the Down and Up buttons (Fig. 1) — at the same time. The status indicator light on the remote will turn green.
2. Press the ACC. IN and ACC. OUT buttons (Fig. 1) simultaneously to activate the receiver.

NOTE: If the status indicator light on the remote does not light, open the remote by removing the six screws on the back. Replace the AA battery

Button	Description
1	Up Arrow - Extends left front jack.
2	Up Arrow - Extends right front jack.
3	Down Arrow - Retracts left front jack.
4	Down Arrow - Retracts right front jack.
5	All Down - All four jacks retract.
6	All Up - All four jacks extend.
7	Up Arrow - Extends left rear jack.
8	Up Arrow - Extends right rear jack.
9	Down Arrow - Retracts left rear jack.
0	Down Arrow - Retracts right rear jack.

Button	Description
ACC.	Auxiliary control for room slide or other motorized auxiliary device.
Receiver status indicator	No light - No power to receiver from 12V DC supply or ground failure. Red light - Insufficient power for proper operation. Orange light - Receiver operational but in idle mode (See Idle Time Out). Green light - Receiver in operational mode.
ACC. IN, OUT	Reset receiver by pressing both ACC. buttons simultaneously.
All Up, All Down	Reset remote by pressing both All Up and All Down buttons simultaneously.



Red Buttons: Raise camper (jacks extend)
Blue Buttons: Lower camper (jacks retract)

Operation

⚠ CAUTION

Never allow the back of the camper to become higher than the front. The camper will load best and more safely if the front is kept two to four inches higher than the rear.

⚠ CAUTION

Always keep the motor release/locking lever on the side of the jack in the up (engaged) position except when the hand crank is installed.

⚠ CAUTION

Never lift beyond the DANGER warning on the jack's inner leg. Jack damage could result, compromising jack performance and creating a safety hazard with repeated overextension.

⚠ CAUTION

Never leave the jack fully retracted. Once the jacks are retracted for travel, reverse the motors and extend the jack slightly. This prevents the jack from locking up in the fully retracted position.

The numbered buttons 1-4 and 7-0 correspond to the jack locations while looking forward from the rear of the camper. Arrows on the buttons indicate the direction of the camper movement. Red buttons raise the camper and blue buttons lower the camper.

1. Press and hold button 6 (Fig. 1) (All Up) to raise the camper.

NOTE: Because the weight of the camper is not the same at all four corners, the jacks will not raise and lower at the same speed. Take care not to get the camper more than four inches out of level. When running all four jacks, stop often to check level and make sure all four jacks are on the ground.

2. Press buttons 1-4 and 7-0 to raise or lower jacks individually to help level camper.
3. Press and hold button 5 (All Down) to lower the camper and retract the jacks.
4. Once the jacks are retracted for travel, reverse the motors and extend the jacks slightly. This prevents the jacks from locking up in the fully retracted position.

Safety Features

Overcurrent Shutdown

When any jack reaches the end of travel, either at full retraction or full extension, an overcurrent situation will cause the remote to shut down operation of all jacks and sound an alarm.

1. At the time of the alarm, press each jack button individually in the direction of travel.
2. When the alarm sounds again, this is the jack which has amped out and cannot be moved farther in that direction. Operation of the other jacks is not affected unless they reach the end of travel and amp out as well.

⚠ CAUTION

Never leave jacks bound in either the fully extended or fully retracted position.

3. A bind due to uneven loading of the jacks may also cause the motors to amp out. Reverse the jack, correct the load issue and continue to load or unload.

Operational Time Out

Any button held down for one continuous minute will cause a time out and all operation will cease. The button must be released and then it or another button pressed to continue the operation. The purpose of this feature is to minimize the risk of getting the camper dangerously out of level.

Idle Time Out

If no buttons have been depressed for two minutes, the system will shut down and the indicator light will go out. Both the remote and the receiver will shut down. The purpose of this feature is to automatically shut down the system when not in use. This reduces the possibility of tampering or accidental activation by children or others.

1. Reset the remote by simultaneously pressing the All Up and All Down buttons (Fig. 1).
2. Reset the receiver by simultaneously pressing the ACC. IN and ACC. OUT buttons (Fig. 1).

Manual Jack Operation

⚠ CAUTION

Just as when using the remote feature, take care to keep the camper relatively level and do not allow the front of the camper to become lower than the rear.

In the event it becomes necessary to operate one or more of the jacks manually due to a malfunction of the system or a dead or low camper battery, utilize this procedure.

1. Remove the protective weather cap and insert the hand crank handle into the crank socket on the jack.
2. Flip the motor release/locking lever on the side of the jack to the down position. This will disengage the motor head from the jack, allowing it to turn freely by hand.
3. Manually raise or lower jack to the desired position.
4. Return the locking lever to the up position when not hand cranking. This engages the motor and provides a secure lock for the jack.
5. Remove the crank handle.

Troubleshooting Table

What Is Happening?	Why?	What Should Be Done?
Remote will not turn on. No green light.	Dead or weak battery in remote unit.	Remove six screws from back of remote and replace AA battery.
	Defective remote.	Replace remote.
Green light on remote but jacks will not operate.	Receiver needs reset.	Simultaneously press ACC. IN and ACC. OUT.
	Insufficient power to operate jacks. (Red light on receiver panel.)	Charge camper battery or plug into AC power, if available.
One or more jacks will not operate.	Blown fuse(s) on receiver board.	Replace blown fuse(s). If fuses continue to blow, contact LCI.

Tips on Loading, Unloading Truck Camper

- Never allow the front of the camper to become lower than the back of the camper.
- Never back into or turn into the jacks.
- Never leave the camper in an elevated position supported by jacks alone. Lower camper to the ground or support the weight on fixed platforms, such as saw horses.
- Keep the camper level side-to-side.
- Make sure the camper is clear of the truck bed when backing and pulling out.
- Stop frequently when loading and unloading to ensure camper is level side-to-side and the front is slightly higher than the rear.
- Keep the load on the four jacks as evenly distributed as possible. No one jack, especially when swingouts are used, will support the shifting weight of the camper if a disproportionate load is shifted onto it.

Maintenance

Jacks

When the jacks have been unused for an extended period, owners are encouraged to oil the jacks to improve performance.

1. If jacks are fully retracted, place motor release lever in the down position.
2. Use the hand crank to extend the jack a few turns before engaging the motors.
3. Place a few drops of oil or spray a light penetrating oil at the interface of the crank socket and hub or in the oil hole within the hub. The oil will wick into the bushing and improve performance.
4. Reset motor release lever to the up position.

Remote

Keep remote dry and away from moisture. Do not leave remote outdoors or in outside compartments when not in use. Store the remote inside the truck or camper.

FCC Statement

This device complies with Part 15 of the FCC Rules and with Industry Canada license-exempt RSS standard(s). Operation is subject to the following two conditions: (1) This device may not cause harmful interference, and (2) This device must accept any interference received, including interference that may cause undesired operation.

Le présent appareil est conforme aux CNR d'Industrie Canada applicables aux appareils radio exempts de licence. L'exploitation est autorisée aux deux conditions suivantes : (1) l'appareil ne doit pas produire de brouillage, et (2) l'utilisateur de l'appareil doit accepter tout brouillage radioélectrique subi, même si le brouillage est susceptible d'en compromettre le fonctionnement.

Note: Changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

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