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**WARNING!**

FAILURE TO ACT IN ACCORDANCE WITH THE FOLLOWING MAY RESULT IN SERIOUS PERSONAL INJURY OR DEATH.

THE USE OF THE *GROUND CONTROL – AUTO LEVELING SYSTEM* TO SUPPORT THE UNIT FOR ANY REASON OTHER THAN WHICH IT IS INTENDED IS PROHIBITED BY THE LIMITED WARRANTY. THE *GROUND CONTROL – AUTO LEVELING SYSTEM* IS DESIGNED AS A “LEVELING” SYSTEM ONLY AND SHOULD NOT BE USED TO PROVIDE SERVICE FOR ANY REASON UNDER THE COACH, SUCH AS CHANGING TIRES OR SERVICING THE LEVELING SYSTEM.

IT IS RECOMMENDED THAT A TRAINED PROFESSIONAL BE EMPLOYED TO CHANGE THE TIRES ON THE UNIT. ANY ATTEMPTS TO CHANGE TIRES OR PERFORM OTHER SERVICE WHILE UNIT IS SUPPORTED BY THE *GROUND CONTROL – AUTO LEVELING SYSTEM* COULD RESULT IN DAMAGE TO THE 5<sup>TH</sup> WHEEL AND/OR CAUSE SERIOUS INJURY OR DEATH.

**WARNINGS!**

- > BE SURE TO PARK THE UNIT ON SOLID AND REASONABLY LEVEL GROUND.
- > CLEAR ALL JACK LANDING LOCATIONS OF DEBRIS AND OBSTRUCTIONS. LOCATIONS SHOULD ALSO BE FREE OF DEPRESSIONS.
- > WHEN PARKING THE UNIT ON EXTREMELY SOFT SURFACES, UTILIZE LOAD DISTRIBUTION PADS UNDER EACH JACK.
- > PEOPLE AND PETS SHOULD BE CLEAR OF UNIT WHILE OPERATING LEVELING SYSTEM.
- > NEVER LIFT THE UNIT COMPLETELY OFF THE GROUND. LIFTING THE UNIT SO THE WHEELS ARE NOT TOUCHING GROUND WILL CREATE AN UNSTABLE AND UNSAFE CONDITION.

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## BASIC JACK OPERATION

1. Front Landing Gear Jacks.
2. Rear Leveling Jacks.

**Front Landing Gear Jacks** can be operated any time the system is “ON” but NOT in the “AUTO MODE.” By pushing the “FRONT” button, both front landing gear jacks can be extended. By pushing either the “LEFT” or “RIGHT” button, an individual front jack can be extended. Press the “RETRACT” button on the touch panel to put it in the “RETRACT” mode, indicated by the orange illuminated LED next to the “RETRACT” button. The front jacks can be retracted together by pushing the “FRONT” button or individually by pressing either the “LEFT” or “RIGHT” button.

**Rear Leveling Jacks** can only be operated when the touch panel is in the “MANUAL MODE.” Once the system is in “MANUAL MODE,” pressing the “REAR” button will extend both rear jacks at the same time. To operate individual rear jacks, depending on what side you wish to move, simultaneously press the “REAR” button along with the “LEFT” or “RIGHT” button.

### PRIOR TO OPERATION:

The leveling system shall only be operated under the following conditions:

1. The unit is to be parked on a reasonably level surface.
2. Be sure all persons, pets and property are clear of the coach while the Rieco-Titan Ground Control Leveling System is in operation.
3. Make sure battery(ies) are fully charged and load test at 12+VDC.

### DROPPING OFF THE UNIT

1. **CAUTION! Loosen J.T. Strong Arm Stabilizer “T” handles. (If applicable.)**
2. Disconnect fifth wheel latch.
3. Turn Master Battery Disconnect Switch to “ON”.
4. Release the inner drop legs of both landing gear jacks by pulling on the quick release pins and extending the inner leg 4-5 inches.
5. Push “ON/OFF.” button on the touch panel, Fig 2A, to turn system ON. LCD Screen lights up, Fig.2B.



FIG. 2 – Touch Panel

6. Push the “DOWN ARROW” to scroll to “DROP FRONT JACKS” option on LCD screen.  
**NOTE:** Orange arrow lights, Fig 2C, may come on, indicating the current position of the unit. In this case the FRONT and RIGHT sides of the unit are low.
7. Push “ENTER”. Both front landing gear jacks will go to the ground and stop.
8. Push “FRONT” button to extend front landing gear jacks manually. This will lift front of camper to clear the 5<sup>th</sup> wheel hitch plate.
9. Pull tow vehicle away and park at a safe distance.
10. Push “AUTO LEVEL.” The unit will commence to auto level by setting the landing gear jacks close to level. Rear-most jacks will extend to ground, followed by a second ground verification leveling jacks.
11. When auto level is complete, LCD indicates “LEVEL SUCCESSFUL”.  
**Jacks: Down** and the green lights in the middle of the jack buttons will light, Fig 3A.
12. Tighten the J.T. Strong Arm stabilizer “T” handles if applicable.

FIG. 3 Touch Panel – Unit Level



### TAKING UP STRUT PIN SLOP (If J.T. Strong Arm Stabilizer are installed ONLY!)

1. After leveling is complete, LCD screen will read "LEVEL SUCCESSFUL/CHECK STABILIZERS."
2. Push "FRONT" button **momentarily**, front stabilizer pins will tighten.
3. Push "REAR" button **momentarily**, rear stabilizer pins will tighten.
4. Push "ON/OFF" button to turn system "OFF".

### RECONNECTING THE UNIT TO A TOW VEHICLE

1. Be sure Master Battery Disconnect Switch is "ON".
2. **CAUTION! Loosen J.T. Strong Arm Stabilizer "T" handles. (If applicable)**
3. Push Touch Pad "ON/OFF" button to turn system "ON".
4. Push "DOWN ARROW" to scroll to AUTO RETRACT REAR JACKS and push "ENTER." Rear jacks will fully retract and stop.
5. Push "LEFT" & "RIGHT" button together. Front will raise to previous drop off height. Push "FRONT" button if more height is needed.
6. Back tow vehicle to align 5<sup>th</sup> wheel hitch.
7. Push "RETRACT" button. Orange LED will illuminate, Fig. 4
8. Push the scroll arrow to display "AUTO RETRACT ALL."
9. Push "ENTER". Landing Gear jacks will automatically retract and then stop.
10. Turn "ON/OFF" button "OFF".

### TRUCK HAULER OPERATION (MANUAL ONLY)

1. **CAUTION! Loosen J.T. Strong Arm Stabilizer "T" handles. (If applicable)**
2. Turn Master Battery Switch "ON"
3. Press the "ON/OFF" button to turn the system "ON". LED lights up green.
4. Push "FRONT" button to extend FRONT jacks to gain height.
5. To retract jacks:
  - a. Push "RETRACT" button; Orange LED lights up, Fig 4.
  - b. Push the "FRONT" button to retract jacks and hook up vehicle. Once 5<sup>th</sup> wheel is coupled, push "FRONT" button and hold until jacks are fully retracted.
  - c. Push "ON/OFF" button to turn system "OFF". Green light goes out.
  - d. Double check that the 5<sup>th</sup> wheel latch is secure and that all jacks are fully retracted.
  - e. Turn Master Battery Switch to "OFF"
  - f. Now you are ready to tow.

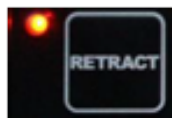


FIG. 4

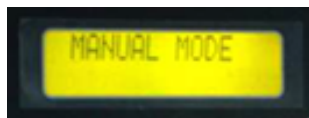


FIG. 5

### ZERO SETTING THE CONTROL

1. Turn System "ON" by pressing the "ON/OFF" button on the Touch Panel.
2. Scroll down using "DOWN ARROW", to Manual Mode. Fig 5
3. Attain level of camper by manually running jacks, following **BASIC JACK OPERATION** instructions at the top of page 2.
4. Turn system "OFF".

5. Push "FRONT" button 10 times.
6. Push "REAR" button 10 times.
7. Control will flash and beep, LCD says "ZERO POINT CALIBRATE"
8. To memorize this level condition, press "ENTER".
9. LCD says "ZERO POINT STABILITY SUCCESSFULLY SET"
10. The control will then turn off.

## ERROR DISPLAY IN LCD

1. If an error occurs before or during operation, the error will be displayed in the LCD and a "buzzer" will sound.
2. The errors that will be displayed are:
  - a. "EXCESS ANGLE" > relocate the unit or manually retract all jacks completely and try starting the sequence over.
  - b. "BAD CALIBRATION" > bad zero point.
  - c. "FEATURE DISABLE" > Cycle Main Power or system not Zero Calibrated.
  - d. "LOW VOLTAGE"
  - e. "OUT OF STROKE" > relocate the unit or manually retract all jacks completely and try starting the sequence over.
  - f. "EXTERNAL SENSOR" bad connection to rear remote sensor.
  - g. "JACK TIME OUT"
  - h. "AUTO LEVEL FAILURE" > retry.
  - i. "STABILIZER TIME" > rear stabilizers ran too long... bad motor or connections.
  - j. "NOT CONFIGURED" > unit was not zeroed properly.
  - k. To clear error, push "ENTER" > if error remains, it will appear again.
3. Special JACK codes
  - LF JACK
  - RF JACK
  - LF JACK
  - RR JACK
  - a. If one of these error codes appears, the operator does have manual control over the jacks to prevent being stuck.
  - b. It is important that once the error code has been resolved, the user of the unit must manually retract all jacks completely before exiting the error code. If this step is not completed, the LCD will prompt the user to complete this step as follows:
    - i. SAMPLE ERROR CODES
      1. "ERROR"
      2. "LR JACK"
      3. "MANUALLY RETRACT"
      4. "ALL JACKS"
      5. "PRESS ENTER"

## PREVENTATIVE MAINTENANCE PROCEDURES

1. Remove dirt and road debris from jacks (and stabilizer struts if equipped) as needed.
2. If jacks are down for extend periods, it is recommended to spray exposed leveling jack tubes with a spray lubricant every 3 months for protection. If your coach is located in a salty environment, it is recommended to spray the rods every month.

### **WARNING!**

**Your coach should be supported at both front and rear with jack stands before working underneath. Failure to do so may result in personal injury or death.**

**IF YOU HAVE ANY PROBLEMS OR QUESTIONS CONSULT YOUR LOCAL AUTHORIZED DEALER OR CALL RIECO-TITAN AT:**

**(815)464-7400**

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