

4-19 Stabilizing System

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Your motorhome is equipped with a "Big Foot" Hydraulic Stabilizing System from Quadra Manufacturing, Inc. The Stabilizing System is compact and requires very little bay space which increases your cargo carrying capacity. This system is designed to be used in conjunction with the Hadley Air Leveling system Refer to Section 4-7. The Air Leveling System is the primary leveling system; the hydraulic jacks are designed to stabilize a level coach - each of the four hydraulic jacks extend until it senses the ground. In an emergency situation, the hydraulic jacks can be used to manually level the coach as long as the jacks are operated in pairs as discussed in Section 4-21.12.

4-19.1 Operating Instructions for Automatic Control Panel with Manual Option:

1. Turn Power Switch On

NOTE: Immediately upon power initialization the system will enter a 30-second self-diagnostic mode, indicated by the Directional LEDS and the Level Indicator flashing. Upon completion of this mode, one or two Directional LEDS will be lit with one flashing. A lit LED indicates the end and/or side of the vehicle that is low. If the vehicle is in a level position, only the Level Light will flash.

2. Select Auto or Manual Mode by pressing the corresponding touch pad.
If Auto Mode was selected, proceed to "Automatic Mode" Step 3.
If Manual Mode was selected, turn to "Extending Stabilizers Individually"

AUTOMATIC MODE:

3. **WAIT WHILE WATCHING THE PANEL.**

The system will lower both legs at the lowest end of the vehicle. When the first leg reaches the ground it will cause the system to sense motion and stop. Next, each leg will be lowered individually confirming ground contact by causing the system to sense motion. The system will then repeat the process for the other end of the vehicle.

4. **WAIT WHILE WATCHING THE PANEL**

The system will repeat Step 3 for the other end of the vehicle then stabilize the vehicle in all other directions. Completion of this process is indicated by illumination of the Level Light.

4-19.1.1 Retracting Stabilizers while in Automatic Mode

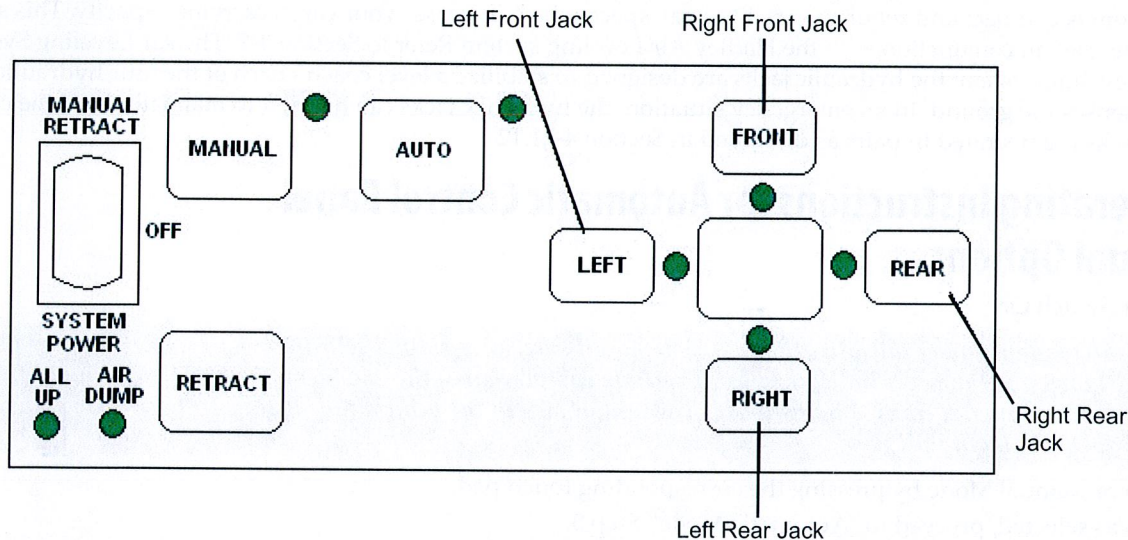
IMPORTANT! After the stabilizers are retracted make a visual check to be sure all legs are retracted before moving the unit!

Determine if the power to the Control Panel was left on or turned off, and proceed as follows:

If the Control Panel Power Was Turned On: Press the Retract Pad and release. All legs will automatically retract and cause the All-Up LED to light.

If the Control Panel Power Was Turned Off: Turn power on and wait for the system to go through a 30-second self-diagnostic mode, indicated by the Directional LEDS and the Level Indicator flashing. Press the Retract Pad and hold in until all stabilizers are completely retracted as indicated by the All-Up LED being lit.

4-19.1.2 Manual Mode or Extending Stabilizers Individually



1. Push and hold manual button until indicator light is illuminated indicating system is in manual mode. (See figure above).
2. Press buttons on side panel four button panel individually to extend stabilizers.

NOTE: Make certain to run jacks in pairs by pushing the following button pairs together (see chart below). If the jacks are not operated in pairs, this could twist the body structure and affect slideout room operation by distorting the slideout opening.

Button Pairs	Action
Left & Front	Raises Front
Right & Rear	Raises Rear
Left & Right	Raises Left Side
Front & Rear	Raises Right Side
Left & Front	NO - Twists Body
Rear & Front	NO - Twists Body

4-19.1.3 To Operate Manually

To level manually extend two stabilizers at a time by pushing jacks in pairs. For example, either by pushing the front and left together or the right and rear together.

4-19.2 Maintenance Guide

One advantage of owning a Big Foot Stabilizing System from Quadra Mfg. is that your system requires very little in the way of maintenance. Here is a guide to follow for years of carefree service.

NOTE: Maintenance related problems and maintenance service are not covered by warranty.

Check the fluid level at least once a year:

- Remove the red fill cap at each stabilizer pump and use a wire-tie as a dipstick (not provided) to check the fluid level. The correct level is 3/4" from the top of the reservoir.
- If needed, fill with Dexron II or III transmission fluid. The standard reservoir holds 54 oz. And the deep reservoir holds 141 oz.

Under mild to normal weather conditions:

- Extend stabilizers and spray the rams of the hydraulic cylinders with silicone* spray twice a year. Let the spray dry and retract the stabilizers.

If you leave your stabilizers extended over a period of time:

- When camping or storing your vehicle for the winter, be sure to spray the rams of the hydraulic cylinders with silicone spray before retracting your stabilizers to avoid tearing the cylinder's seal.

Under severe weather conditions:

- The above procedure should be followed on a monthly basis if conditions exist that result in your stabilizers being exposed to high amounts of salt, dirt and wind.

Limit pins:

- Clean with brake cleaner and then spray with clear silicone twice a year.

Routinely check your footpads:

- The bolt should be tightened with a 15/16 socket on an impact wrench and a 1-1/8" narrow head wrench.
- Torque footpad to 120 lbs. Over time, vibration may work footpads loose.

**Use ONLY silicone spray*

4-19.3 Troubleshooting

PANEL:**Power On button is pushed but no indicators are lit on panel –**

- Fuse on the back of the panel is blown.
- White wire on the four-wire pigtail is not getting constant power.
- Ground wire may not be getting a good ground.
- White or black wire on pigtail may be pushed back in the plug.

Vehicle is started and stabilizers are down but the warning alarm does not sound –

- Yellow wire is not getting power when the key is turned forward.
- Yellow wire may be pushed back in the plug.

Cylinders will not retract and the red indicator light is not lit –

- Limit pin on the cylinder may be stuck.
- Limit pin wire on the main wire harness may be pushed back in the plug.
- Limit switch ground wire on the tank assembly may not be grounding properly.

Cylinders will not extend or retract –

- The 120 amp breaker has been tripped.
- Wires on the tank solenoids have a break or are not making a good connection.

CYLINDERS:**Cylinders do not fully extend or retract –**

- Air trapped in the cylinder.
- Hydraulic lines are plumbed backwards.
- There is no fluid or low fluid in the tank reservoir.

Cylinder continues to run after the panel button has been released –

- Tank solenoids may be sticking.
- Panel switch may be sticking.

Cylinder will not lift or hold the weight of the motor home –

- Lines may be plumbed backwards.
- Back pressure circuit in hydraulic pump is bad
- Damaged piston seal inside cylinder

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