



EZ System Installation & Owner's Manual



Quadra Mfg. Inc.

305 US 131 South

White Pigeon, MI 49099

1-269-483-9633

1-800-752-9815

www.BIGFOOTLEVELER.com

Bigfoot EZE Control Panel

Motor Home / Fifth wheel Instructions

STEP 1: Turn system power on

STEP 2: Select extend

STEP 3: Then simply press the front button and hold it until you feel the coach start to lift

STEP 4: Then press the Rear Button until you feel the rear of the coach start to lift.

STEP 5: Then you can level the coach by pressing any of the buttons one at a time until you feel the coach is level.

*****For retract mode, select retract and hold front button until they are all up then press and hold the rear button until they are all up. Once all the jacks have been retracted make sure to do a visual check to ensure the jacks are in the up position.**



WIRELESS EZE LEVELING SYSTEM OPERATION

- STEP 1:** Press the “WAKE” button on the remote to turn receiver on.
- STEP 2:** To lift the Front of the coach, press “FRONT” then “EXTEND.” Hold this down until the coach moves, then release.
- STEP 3:** To lift the Rear of the coach, press “REAR” then “EXTEND.” Again hold this down until the coach moves, then release.
- STEP 4:** To lift the Driver side of the coach, press “DRIVER” then “EXTEND.” Hold until desired height is reached, then release.
- STEP 5:** To lift the Passenger side of the coach, press “PASSENGER” then “EXTEND.” Again, hold until desired height is reached, release.
- STEP 6:** Press “WAKE” to put the system to sleep.



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- STEP 1:** When you are ready to leave press “WAKE” to turn on the receiver.
- STEP 2:** To lower the Rear of the coach, press “REAR” then “RETRACT.” Hold this down until the rear jacks are completely retracted.
- STEP 3:** To lower the Front of the coach, press “FRONT” then “RETRACT.” Again hold this down until the front jacks are completely retracted.
- STEP 4:** Press “WAKE” to put the system to sleep.

The indicator light & alarm will alert you when one of the jacks are down before you drive away. This is standard on the wireless system.



WIRELESS EZE LEVELING SYSTEM INSTALLATION

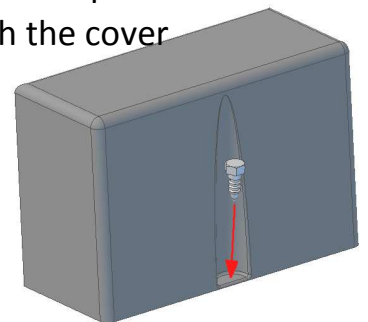
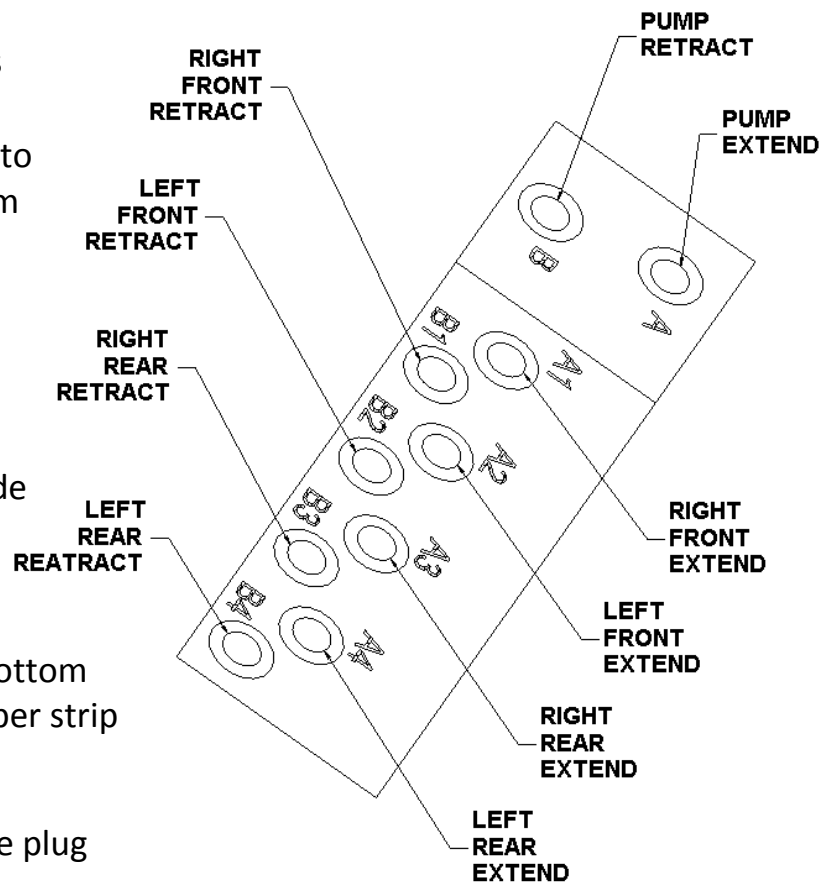
STEP 1: After mounting the cylinders, it's time to plumb the manifold. Attach the correct hydraulic line to the correct port from the diagram and verify that the fittings are tight before moving along.

STEP 2: The 4 gauge battery cable must be run from the positive side terminal from your coach's battery to the top solenoid on the pump. Place the battery eyelet on the brass stud at the bottom of the top solenoid with the copper strip connecting the two solenoids.

STEP 3: Plug the receiver harness into the plug attached to EZE tank assembly.

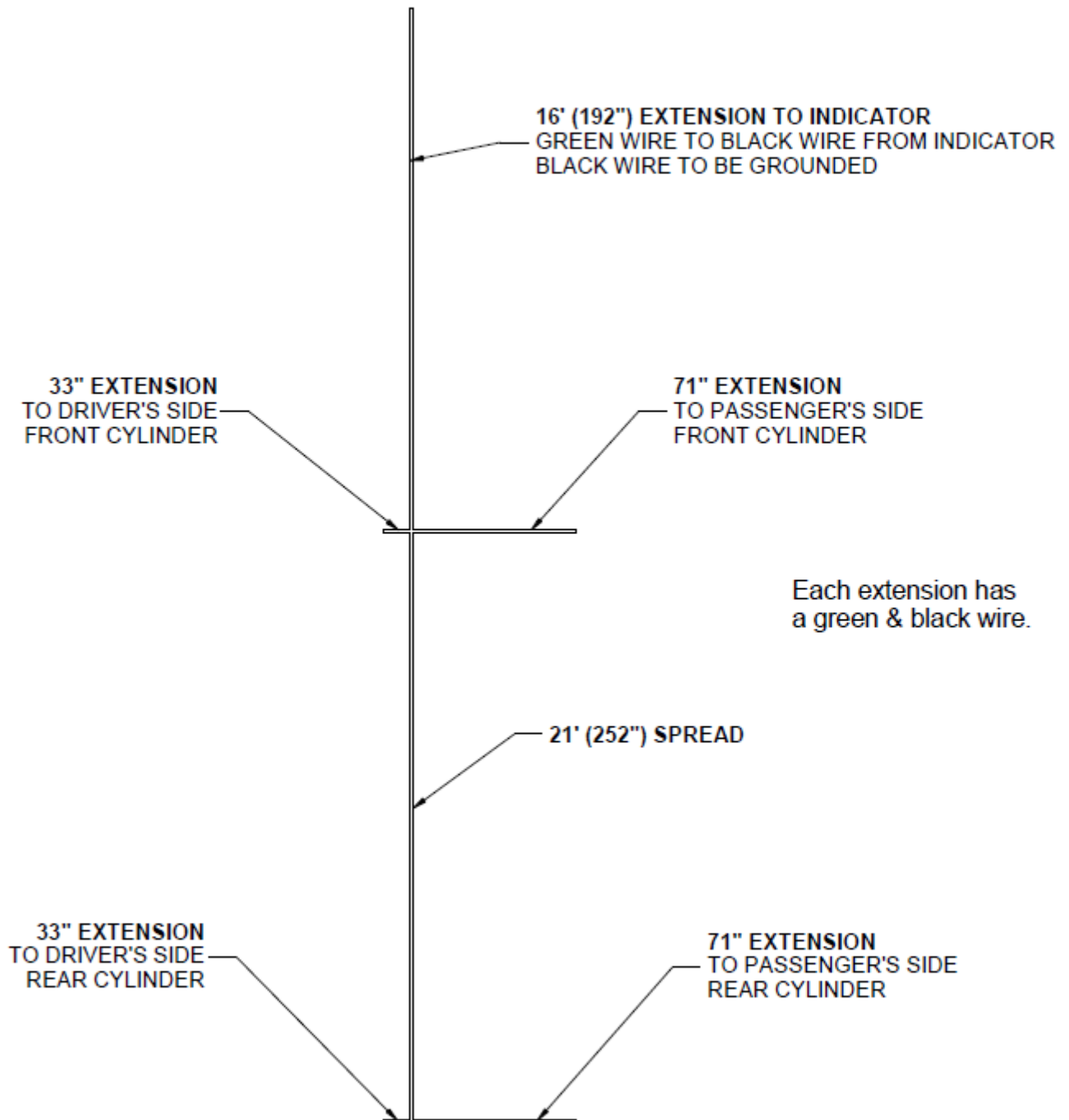
STEP 4: Attach the plastic tank cover by placing it over the unprotected components on the assembly and screwing a #10 TEK screw (provided) through the cover into the top of the tank in the location shown to the right.

STEP 5: After connecting the receiver to the tank assembly, using the provided #10 TEK screws (4) attach the receiver plate to the coach in an easy to reach area without placing it in harm's way. For example, face the front component side of the receiver towards the rear of the vehicle where road debris cannot damage the receiver.



EZE LIMIT SWITCH HARNESS

THIS IS THE HARNESS THAT ATTACHES TO EACH CYLINDER & TO THE INDICATOR LIGHT/BUZZER TO BE INSTALLED ON THE DASH. SCREW INDICATOR LIGHT/BUZZER ASSEMBLY TO DASH IN AN AREA THAT IS EASY TO SEE AND CATCHES THE DRIVER'S ATTENTION.

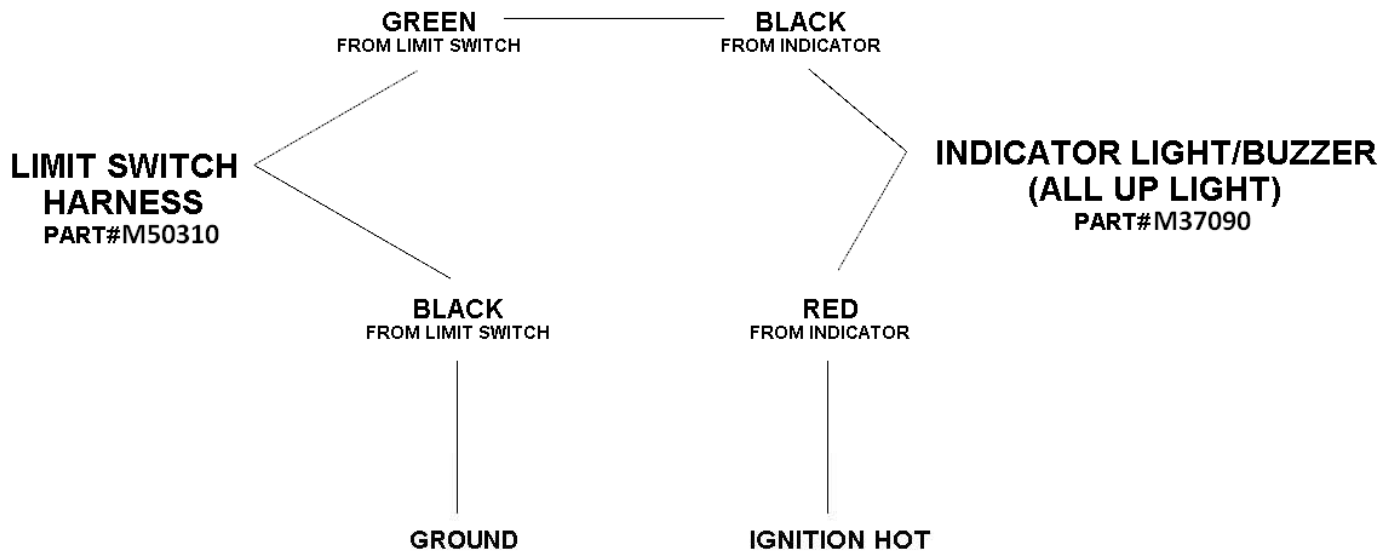


FEMALE SPADE CONNECTOR TO GREEN WIRE
MALE SPADE CONNECTOR TO BLACK WIRE
AT EACH END TO ATTACH TO
PLAIN LIMIT SWITCH ASSEMBLIES (NO EXTENSION)
WITH MALE & FEMALE SPADE CONNECTORS

"ALL UP"

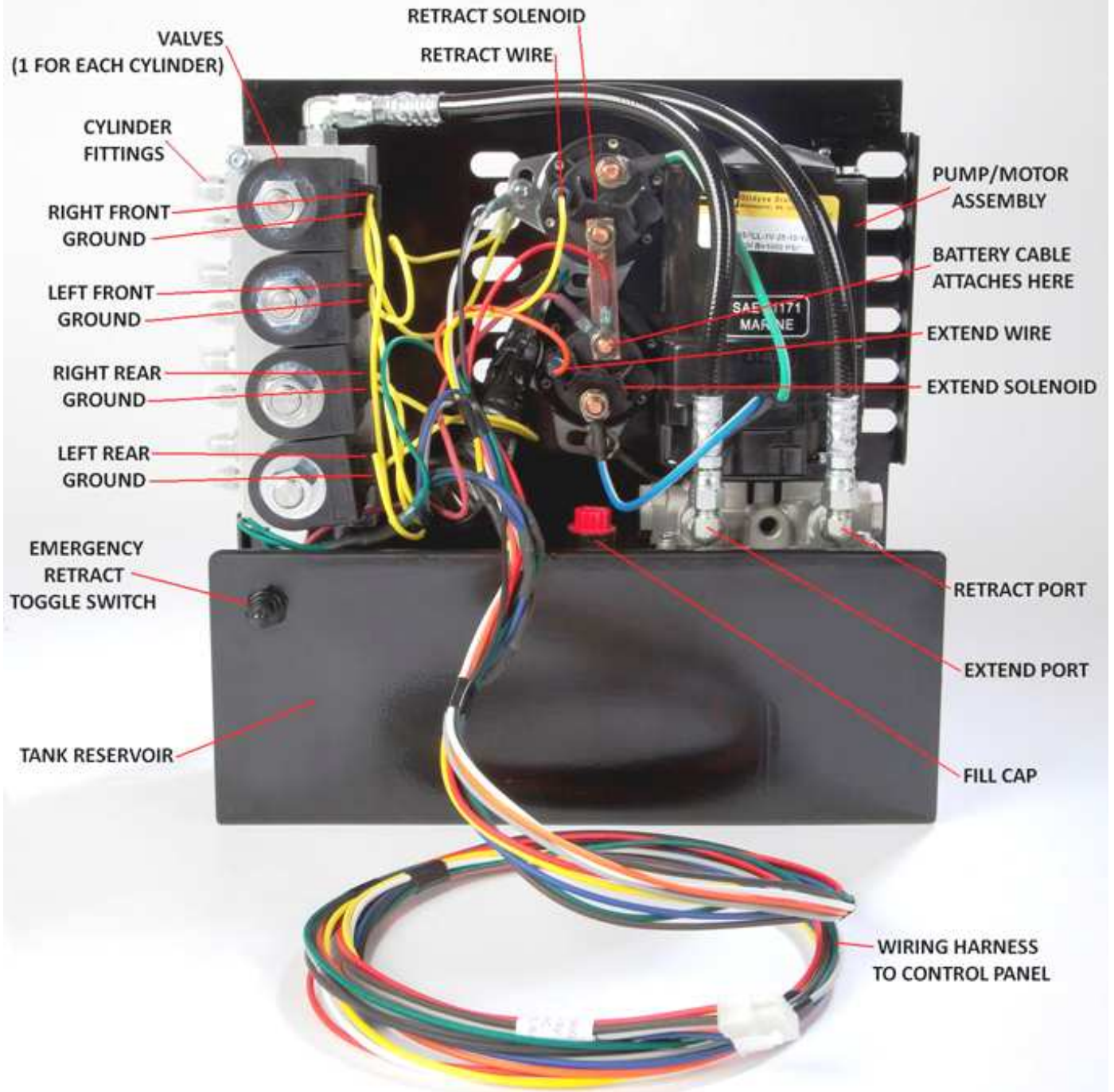
INDICATOR LIGHT/BUZZER

WIRING DIAGRAM



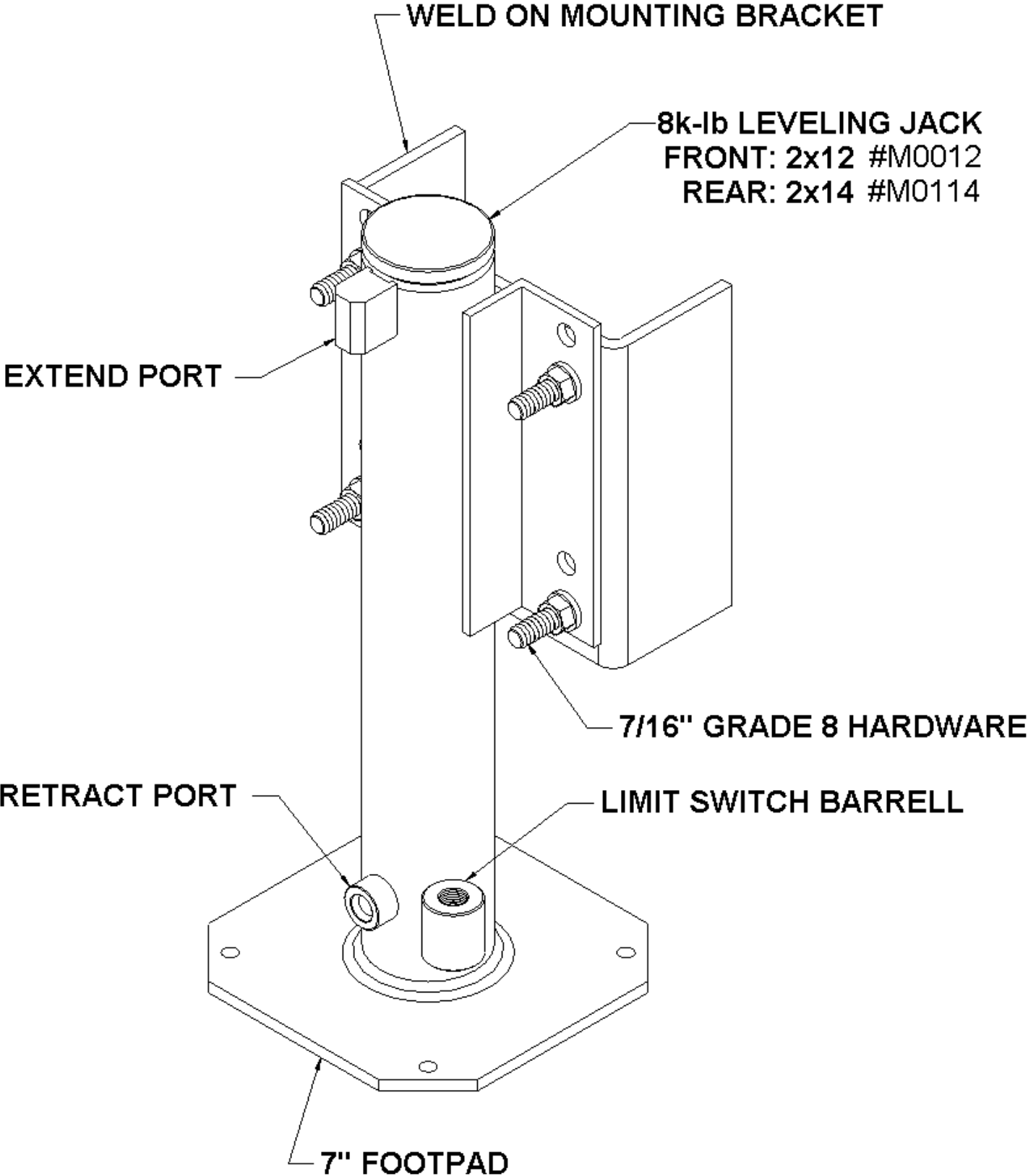
Indicator to be attached to dash in a convenient & highly visible location for the driver to see.

EZE TANK ASSEMBLY DIAGRAM



CYLINDER ASSEMBLY

Cylinder mounting locations & weld-on mounting brackets vary from application to application. Feel free to call Quadra Mfg. for more information on your system.



Bigfoot EZE Installation

Mounting cylinders

Step 1

The cylinders can be bolted to the frame using the supplied hardware, or they can be bolted to a weld-on bracket that also supplied with the system. Prior to welding/drilling verify that the bottom of the cylinder will have a minimum of 7" of ground clearance when the cylinder is in the "up" or "retracted" position.



Once the cylinder is installed you will want to locate the (2) 90 degree elbow fittings (supplied). One will attach to the bottom or "retract" port. For the top you have a choice of the left or right port, use the side that keeps the hose from binding or pinching.



Completed corner with hoses and feet installed.

Bigfoot EZE Installation

Pump and hose hook-up

The pump can be mounted by welding either the long bracket (to the left) or the 8x8 plate (not shown) to the frame & bolting the pump to the brackets OR drilling the frame and bolting the pump directly to the frame. Usual placements are in front compartments or open exposed areas to frame rail. Once the pump is securely mounted, you may plumb the cylinders to the manifold (see pg's 3 & 6). After connecting proper hose locations check to ensure that all fittings are tight before continuing on. Fasten the lines/wires to the frame out of the way of moving parts/exhaust/sharp edges. Also check for kinked hoses. Now it is time to fill the reservoir, detach red fill cap and install Dexron 3 ATF, keep fluid level 3/4" below the top of reservoir.



ELECTRICAL AND FINAL PREP

- ▶ Tank assembly requires 12 volt battery; make sure you use at least a 4 gauge battery cable for the power to the tank assembly.
 - ▶ Remove plastic cover from pump assembly (if installed).
 - ▶ Most trailers have the battery mounted on the front of the trailer in a box; install the 80 amp breaker (if equipped) using the self tapping screws in-line somewhere between the jack and the battery.
 - ▶ Hooking up the breaker: Using the battery cable (if equipped); attach one end of the cable to the bottom solenoid on the lug with the copper strip. Route the cable through the grommet holes in the marked AUX then attach the other cable (if equipped) to the circuit breaker post marked BAT and route the cable to the battery (DO NOT CONNECT UNTIL THE REST OF THE TANK WIRING IS COMPLETE)
 - ▶ In the event the Tank Assembly *is not* attached or mounted to steel; it is necessary to attach the AUX Ground from tank assembly to frame. (If tank Assembly *is* mounted to steel, the ground is reached thru the tank body and frame of vehicle.)
 - ▶ At this point add fluid (ATF) to the pump (red fill cap) make sure you fill the tank so that the fluid is $\frac{3}{4}$ " below the top.
 - ▶ Then you must fully extend the jacks until they reach full extension. Let them set this way for 30 minutes, this bleeds the air from the lines.
 - ▶ Once that is done lower your system and enjoy your brand new **BIGFOOT LEVELERS**.
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EZE SYSTEM BLEEDING & EMERGENCY RETRACT

- After all feet are installed, it is necessary to bleed the system (remove air bubbles).
- Fully extend all the jacks until they will not stroke any more.
- Leave the jacks fully extended for 30 minutes to allow all the air to get out of the system.
- After 30 minutes, retract all the legs and do a visual check to make sure all fittings and lines are not leaking.

In the instance your remote has been “misplaced” or “damaged...”

- Go to your tank assembly which is usually located on the driver’s side near the mid-section of the coach.
- There is a black toggle switch on the front side of the tank.
- Hold this toggle switch until the jacks are completely retracted.

Caution: Pressing this toggle switch will lower the coach; make sure no one is underneath the coach while doing this procedure.

Troubleshooting



This is a guideline to help figure out what is wrong with the system, and what you can do to fix or prevent problems from occurring.

Call: (269) 483-9633 or 1(800) 752-9815

What Hydraulic Fluid do I use?

Automatic Transmission Fluid (ATF): Dexron II, Dexron III, ATF+4, Mercon, Mercon V

Panel won't turn on, system won't run, clicking noise...

Battery low, panel won't turn on = coach battery, the rest of system relies on house battery. The battery needs to be 100% charged for the system to work, it doesn't make a difference if the coach is new, that doesn't mean the battery is fully charged or even good. Battery's don't charge instantaneously, so one can't just expect to hook it up to a charger and the system will work immediately, they can un-plug/re-plug their battery gauges to show the true charge. If the battery does for sure sound good, then the unit might have a ground issue. SEE DO IT YOURSELF SECTION

Cylinders won't retract...

Broken/crushed limit switches, bent or broken clevis pins (especially rear jacks on fifth wheel)
Limit Switch barrels mounted too low, 1" is bad, 1 1/8" is good (Manufacturing defect).
Need new Limit Switches, Clevis pins & Limit Switch Washers (one of each per cylinder). SEE DO IT YOURSELF SECTION

Medium Tank Assembly (Plastic Reservoir)

Plastic Foaming of fluid or overflow in reservoir....

- ▶ Check fluid level of reservoir with legs retracted (should be 3/4"-1" below top).
 - ▶ Rear jacks on fifth wheel?... Does it have red caps?... Send Blue Caps
 - ▶ The blue cap might be down too far into the hole of the reservoir... This blocks the air ventilation and causes the fluid to foam or overflow... Most of the cap should be sticking above the hole; it just needs to be "snug".
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Cylinders *(Prior to 2008, cylinders only have 5 year warranty)*

Cylinders "creep" down when not in use... Check fluid level, OR Bleed System (there is air in the system)

Cylinders make loud "squeaking" noise while operating... Spray rams with Teflon spray (or dry lubricant).

Hydraulic Fluid on footpad or on ground around cylinder... Loose fitting or broken hydraulic line.

Cylinders "creep" down or don't hold pressure when lifting/holding coach...

- ▶ Check fluid level
- ▶ Check for leaks in hydraulic lines/fittings... if lines damaged, have them measure and send replacements
- ▶ Possibly plumbed backwards... (Bottom port on cylinder tube connects to right port on pump, etc.)
- ▶ Relief Valves have failed on pump motor... replace motor/return it to Quadra
- ▶ Hydraulic seal failure, check for oil around bottom of cylinder... replace/return cylinder OR seal kit

Warranty Guide

EZ 4pt Systems: Limited 1 year on parts and labor.

Should the product be defective due to workmanship and/or material flaws, we will repair or replace the defective material.

Quadra is NOT responsible for:

- **Freight on warranty parts.**
- **Replacing footpads, bolts, or fluids lost as a result of failure to maintain the system (Loose footpads should be tightened at owner's expense).**
- **Damages caused by abuse, misuse, negligence, misapplication, error of operation, accidental or purposeful damage or faulty installation. Including but limited to hoses, fittings & wiring components.**
- **Liability for loss to the vehicle, or apparatus or property, loss of time, manufacturing costs, labor, material, loss of profits, consequential damages (direct or indirect).**
- **For transportation to and from a service center, onsite service calls to or from the customer, damage from road hazard, loss of salaries, commissions, lodging, towing charges, bus fares, car rentals, fuel expense, telephone charges, inconvenience compensation while repairing or replacing a defective part or material.**

This warranty voids all previous issues. Effective date: 9/1/11

**OWNERSHIP MUST BE REGISTERED WITHIN 30 DAYS FROM THE DATE OF PURCHASE TO
ACTIVATE WARRANTY.**

Prior to any work being done an **authorization number must be obtained** by calling 269-483-9633 for Warranty Parts or Service Labor. For full warranty transcript just contact us!

Service labor based on a flat rate schedule determined by Quadra for **authorized** work performed will be reimbursed. This will eliminate much diagnostic time and avoid **refusal of unauthorized claims**. Many problems may be resolved by contacting a Quadra service representative.

Credit card payment arrangements at time of order will be nullified upon our receipt of your defective parts. **All returned parts need to have the repair authorization number** and be received within 30 days of original order to avoid charges.

Provide the system serial number here _____.

Emergency Service

For after hours emergency service please call our normal office number

269-483-9633 and follow the instructions.