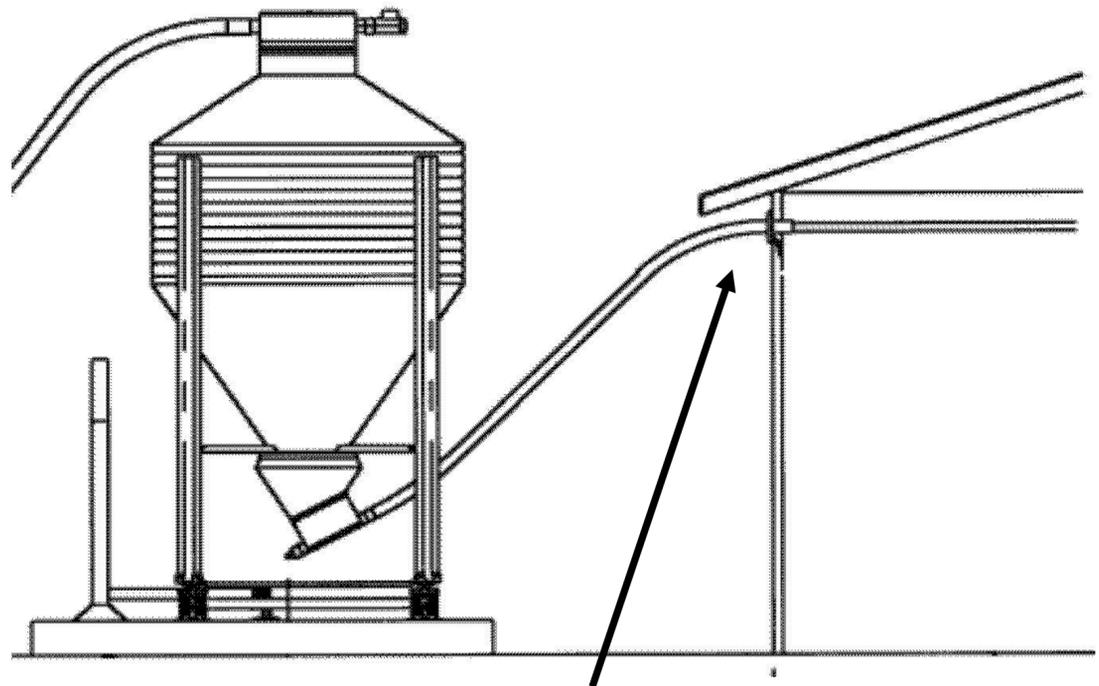


# BIN SCALE

## SCALE · INSTALLATION CHECKLIST

Quick tips for setting the scale up properly

1. Do not bolt the scale down until the bin has been set and the fill system including auger have been completely installed.
  2. Align the scale using this checklist for proper position. Make sure the bin is free floating with no back pressure from auger. You can push the bin with one finger easily with no clanging.
  3. Using a center punch, punch a spot in the center of the lag bolt holes to mark the drilling. This will help keep the drill bit from “walking” and will allow you maximum adjustment from the bottom plates. Three holes will be sufficient to hold each leg.
- D 1) After the scale and augers are installed, make a final inspection. Make sure the augers have 1/2" clearance going through the wall of the house. See Fig. 1.



**ALWAYS ALLOW GOOD CLEARANCE FOR PVC TO EXPAND 1/2" OR MORE.  
SCALE WILL NOT WEIGH CORRECTLY IF PVC IS TIGHT THROUGH HOLE**

FIG. 1

D 2) Check to make sure the scale floats, if not see Fig's. 2A-E, make adjustment as necessary. Make sure that the lever arms are 90° with the lever. See fig. 2B

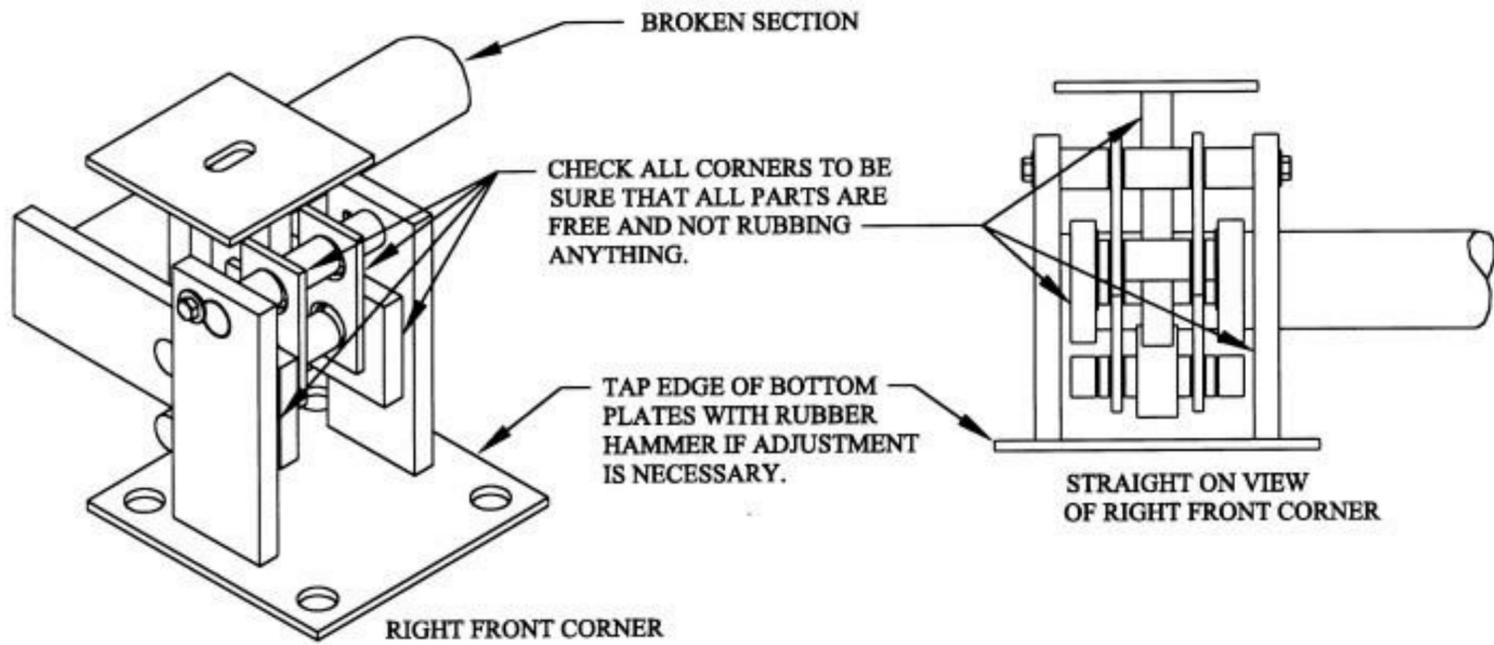


FIG. 2A

Scale lever and transverse lever should be at 90°

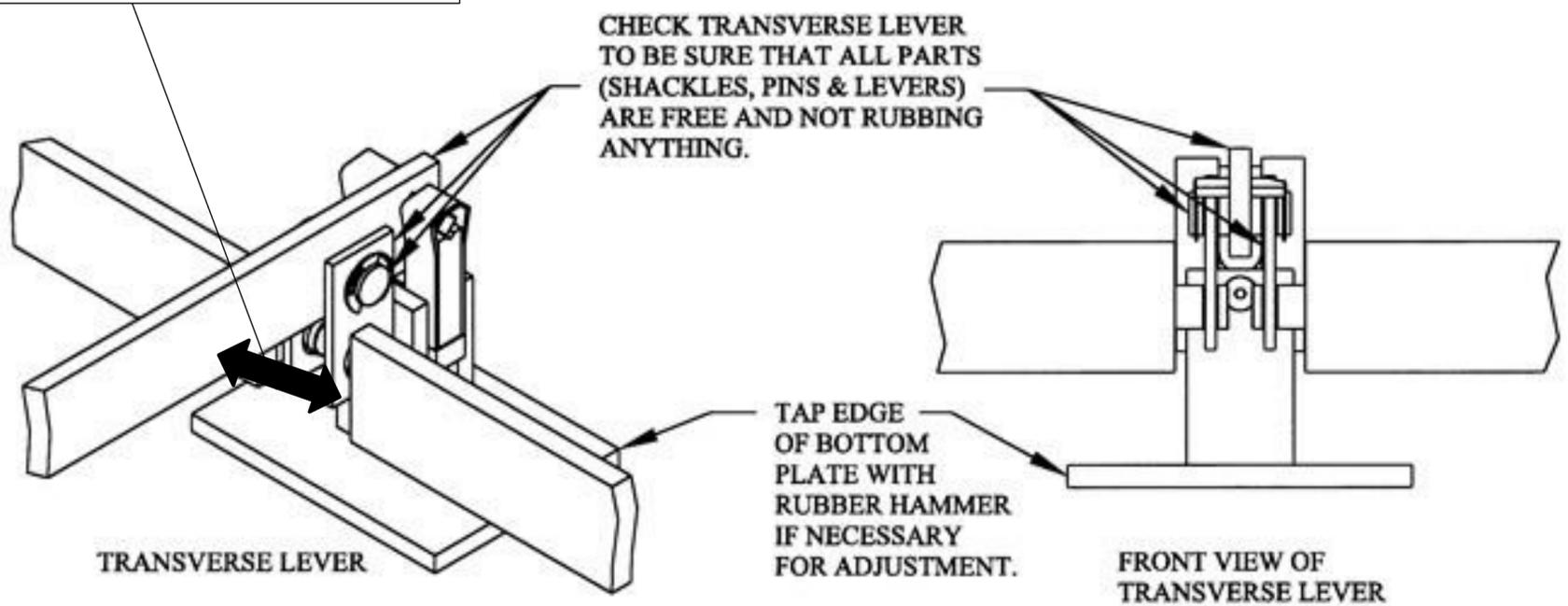


FIG. 2 B

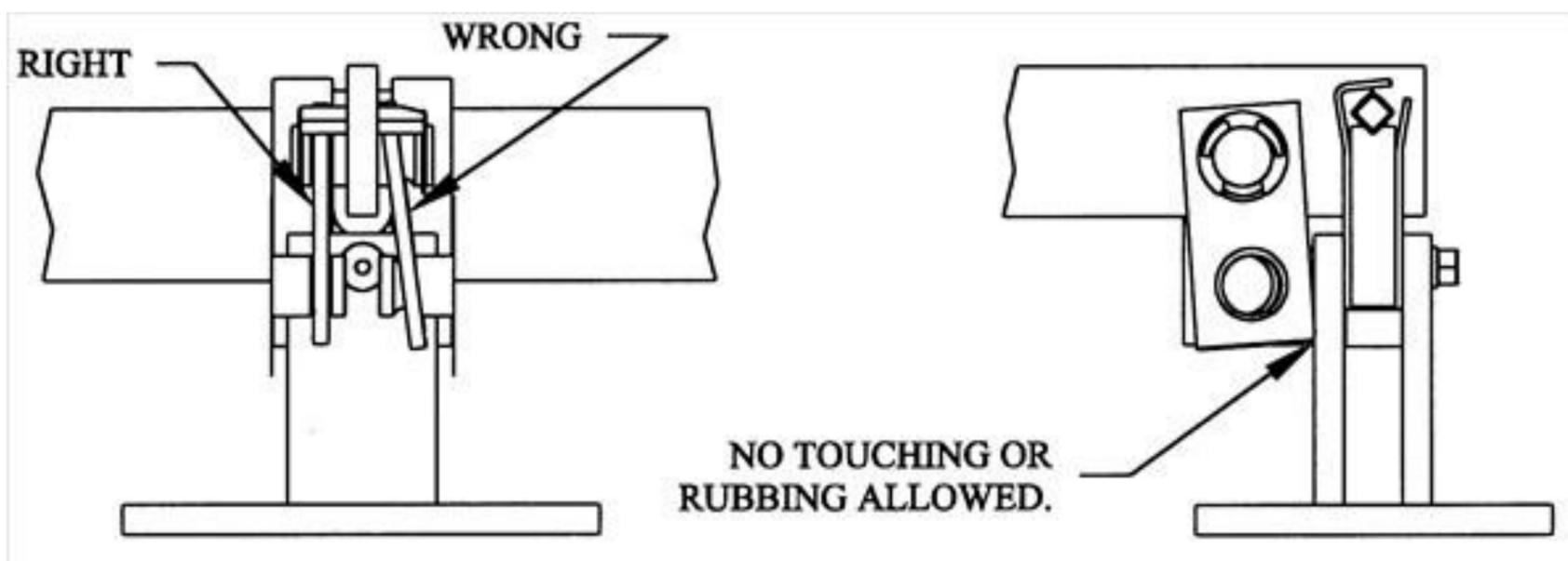


FIG. 2C

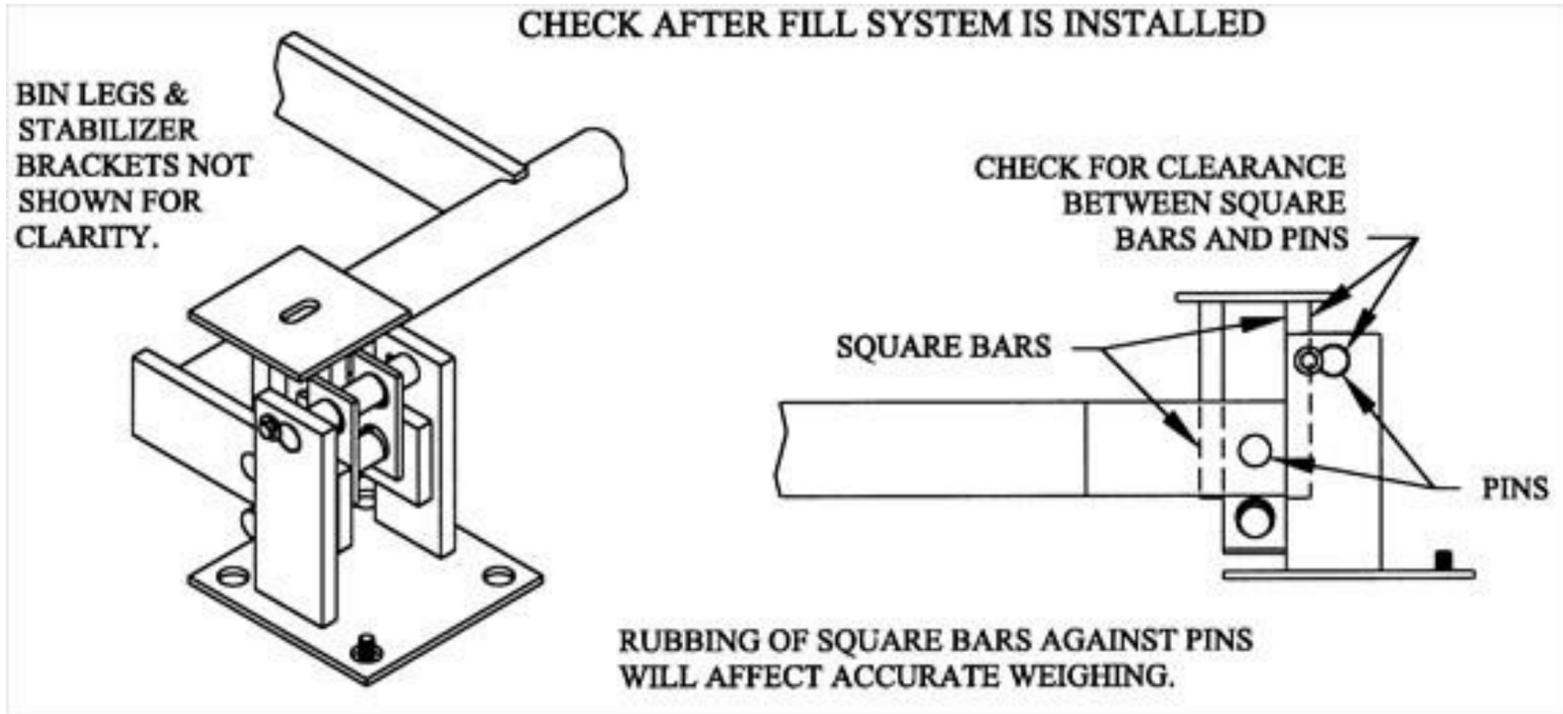


FIG. 2D

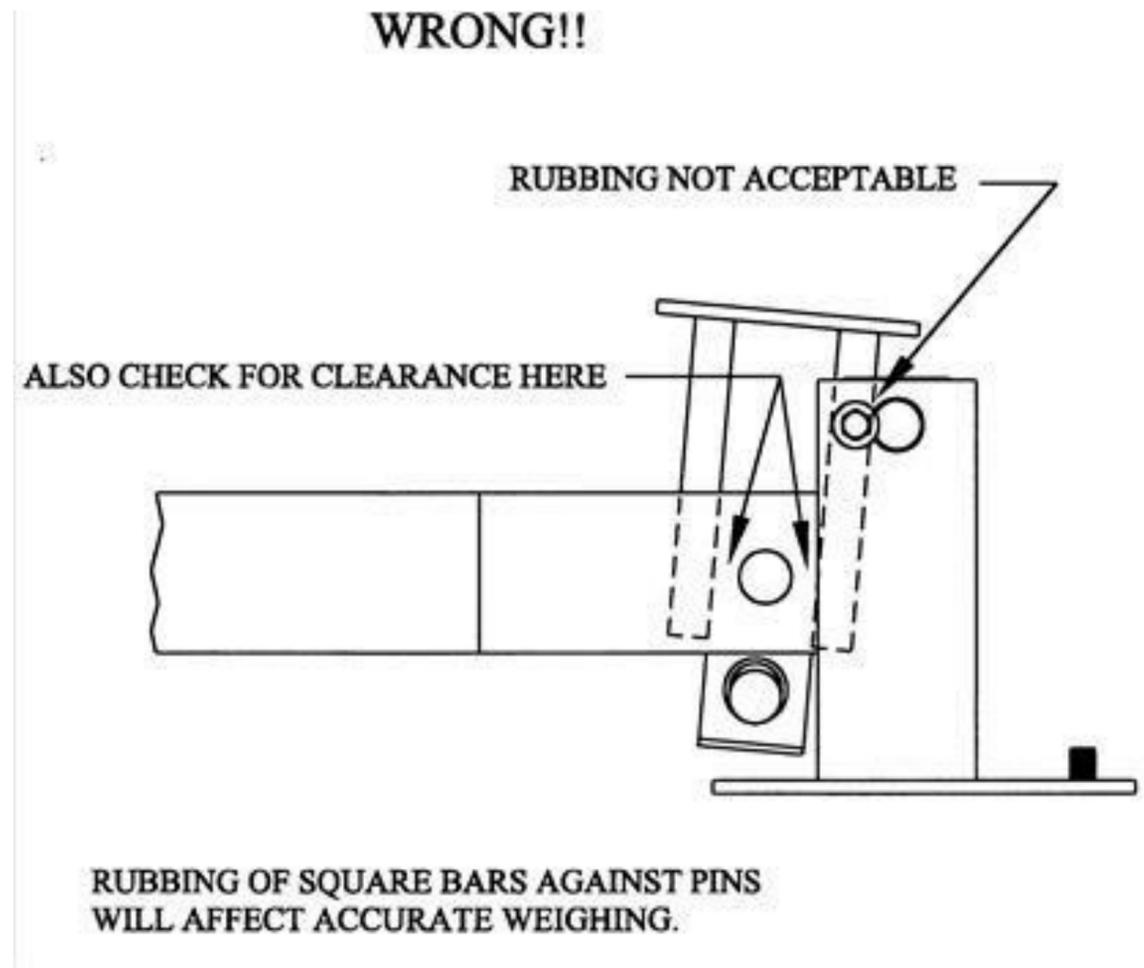


FIG. 2E

D 3) Make sure that the steelyard rod is plumb in both directions. Left to right and front to back. See Fig' s. 3A & 3B.

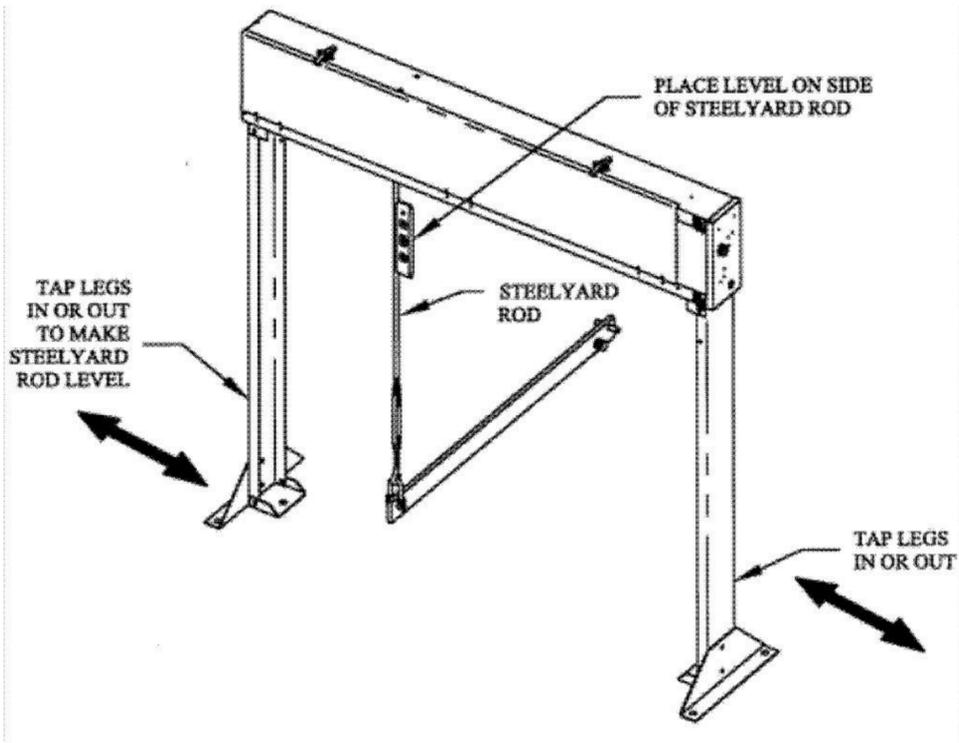


FIG.3A

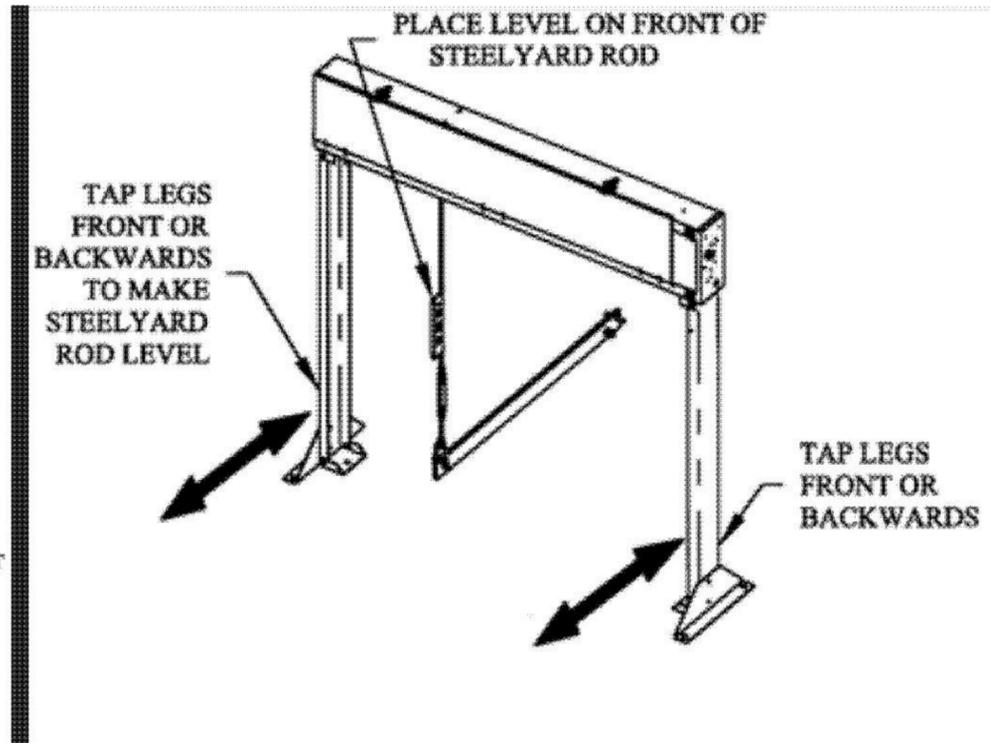


FIG. 3B

D 4) Make sure that the transverse lever is level and the arrows on the decal are pointing up. There are numbers on the side of the lever which should be readable from the side. If they are upside down the lever needs to be flipped over. FIG. 4A \*\*\*This is very important\*\*\*

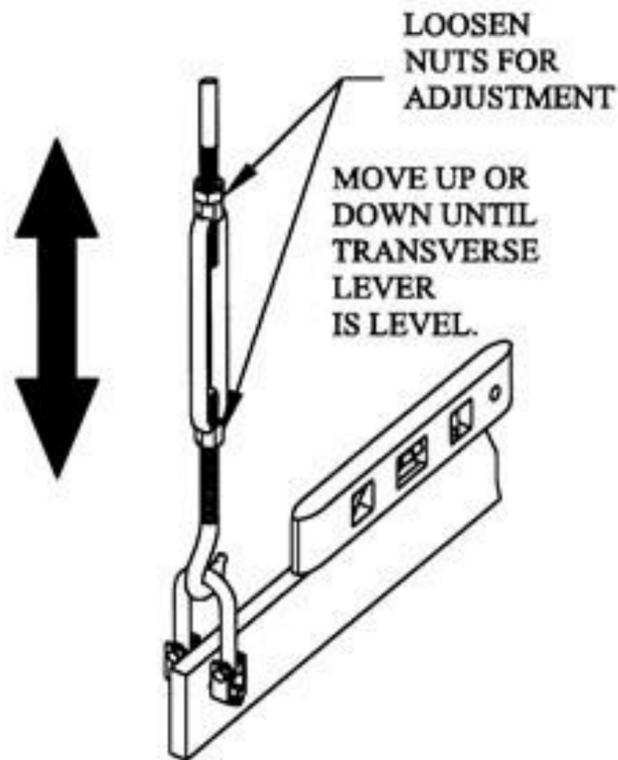
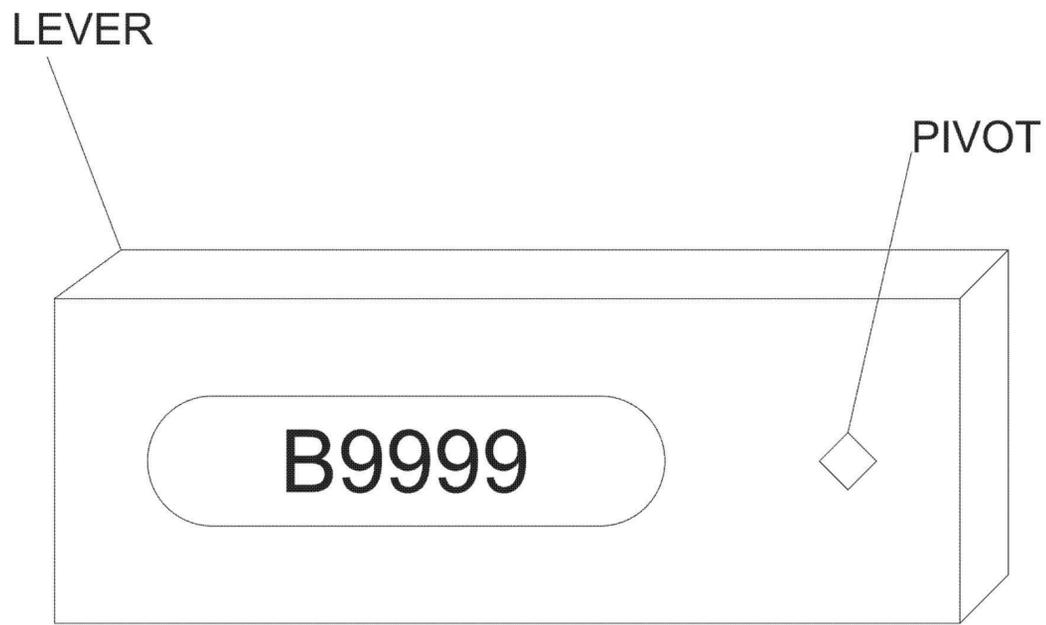


Fig 4.



CORRECTLY INSTALLED LEVER SHOULD READ AS ABOVE.

FIG. 4A

D 5) Make sure the bin does not rock diagonally. To check this, step on each corner of the bin leg. If it rocks, shims are needed. See fig 5.

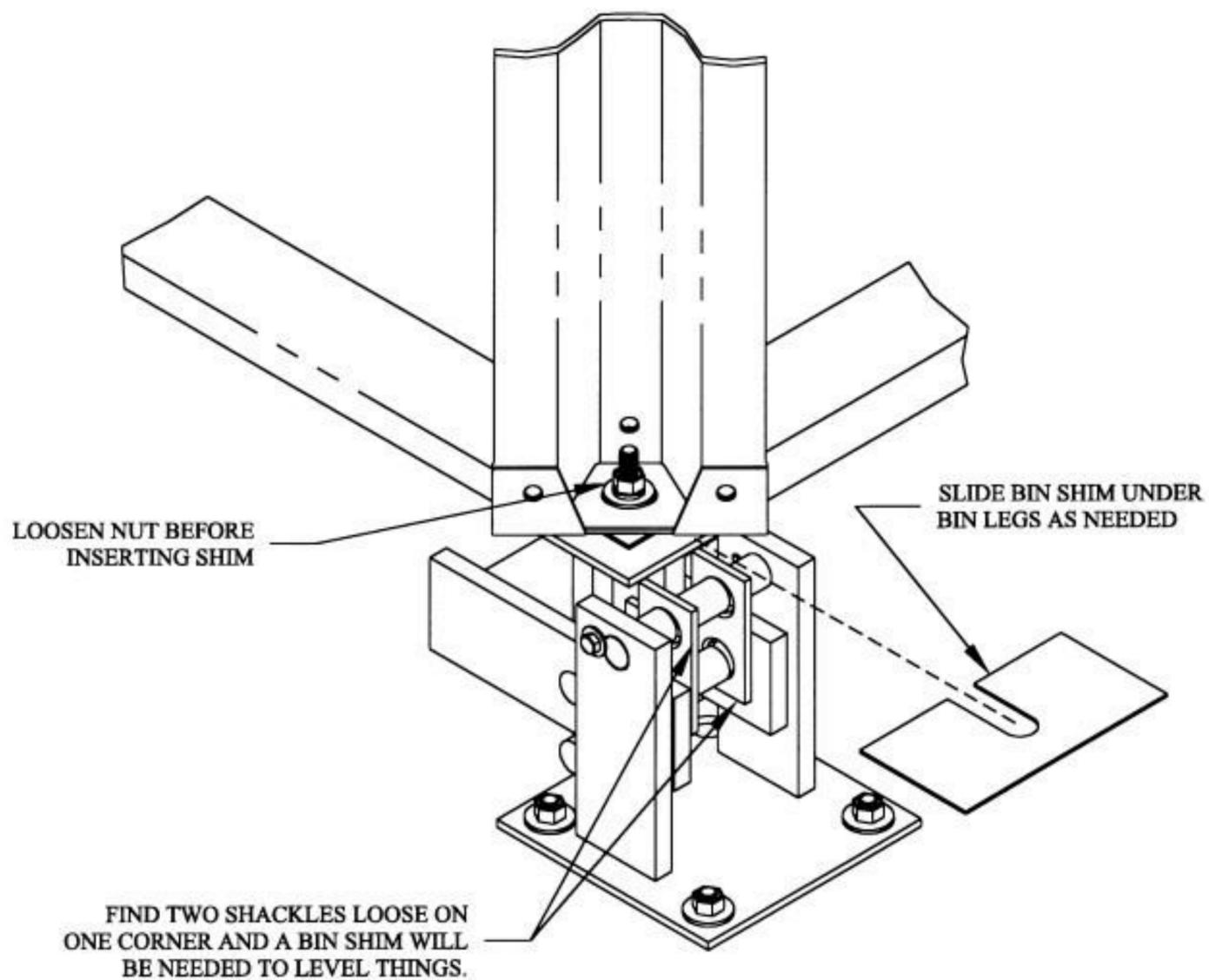


FIG. 5

D 6) Check to make sure that the beam is not touching the sides of the trig loop. See Fig. 6A & 6B.

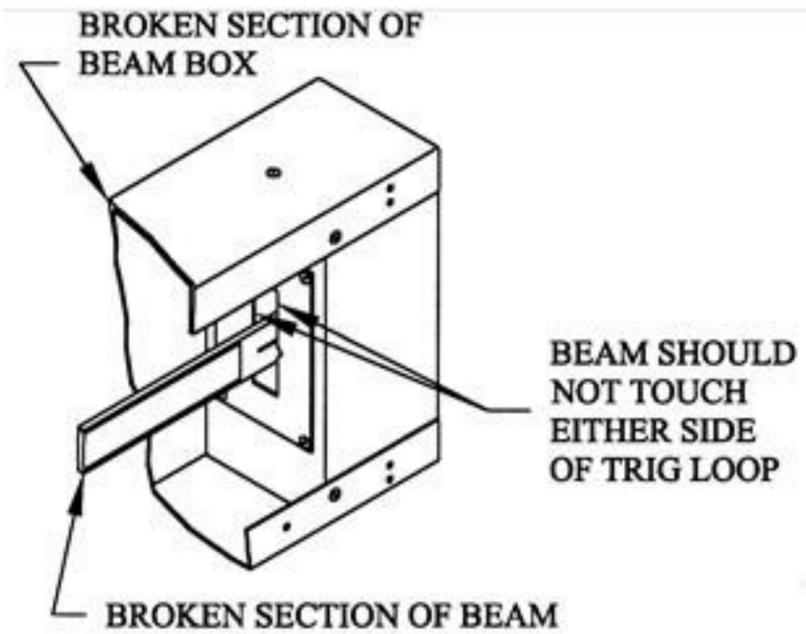


FIG. 6A

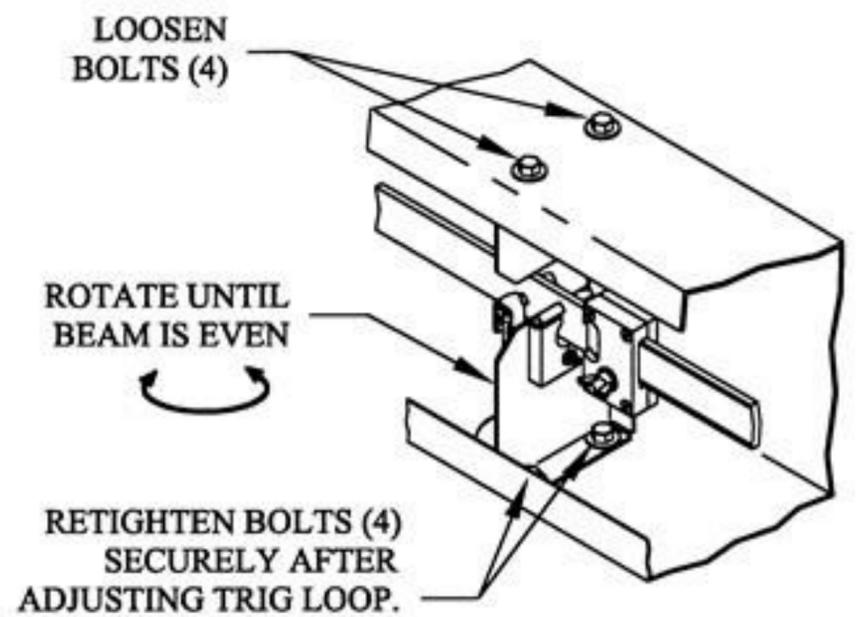


FIG. 6B

D 7) Sometimes, if the fill system is installed after the scale is bolted down, it may cause the bin to shift with the scale. Check the 3/4" x 3/4" square bar that is under each bin leg. Make sure it is not touching the 1" round pin. If it is touching, loosen the bolt that holds the bin to the top mounting plate; shift the top mounting plate so that there is about 1/4" clearance. Refer back to Fig's. 2D & 2E. Check all 4 comers.

D 8) Balancing the scale for the first time to zero.

Slide the poise to zero on the beam and tighten. See Fig. 8A. Loosen the back balance set screw and move the block forward or backward to get the beam close to balancing. Tighten the set screw. Use the 1/2" screw for the final balance. Tighten the 3/4" nut. See Fig.8B. Make sure the beam floats freely and levels back out at zero again. Try this a couple of times.

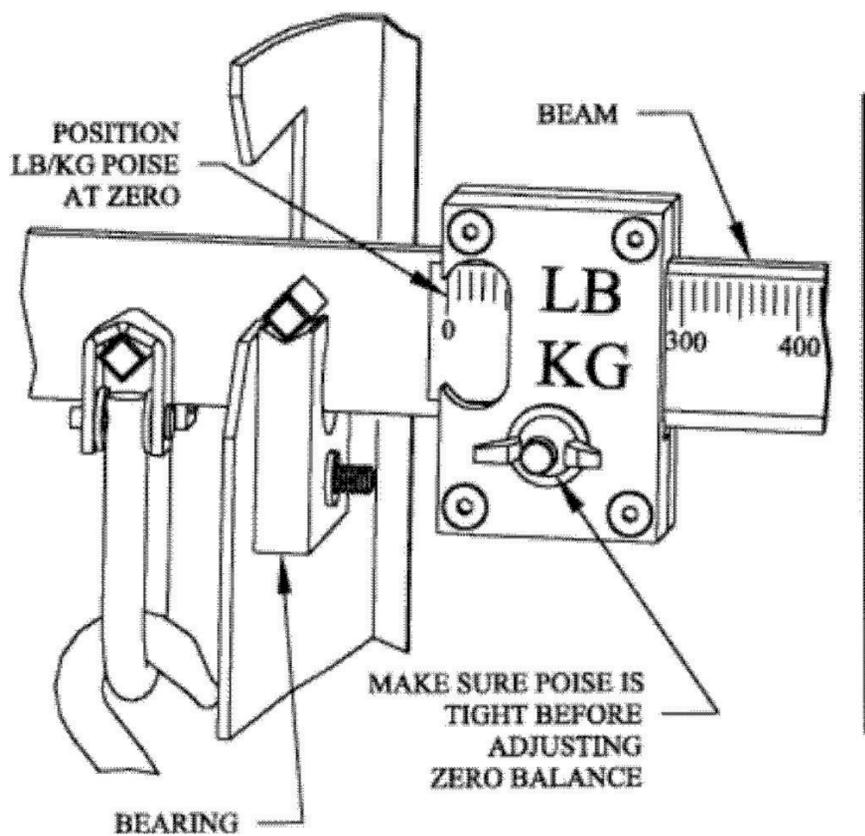


Fig 8A

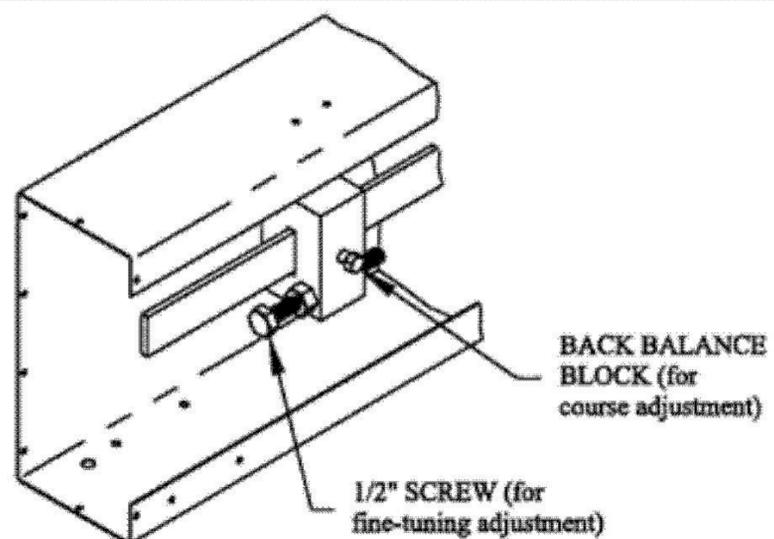


Fig 8B

D 9) Check the micro switches to see if both whiskers are touching the beam at the same time. If they are, they need to be adjusted. You want  $\frac{1}{4}$ " space between the beam and the upper and lower micro switch. See Fig. 9.

$\frac{1}{4}$ " spacing between beam and switch

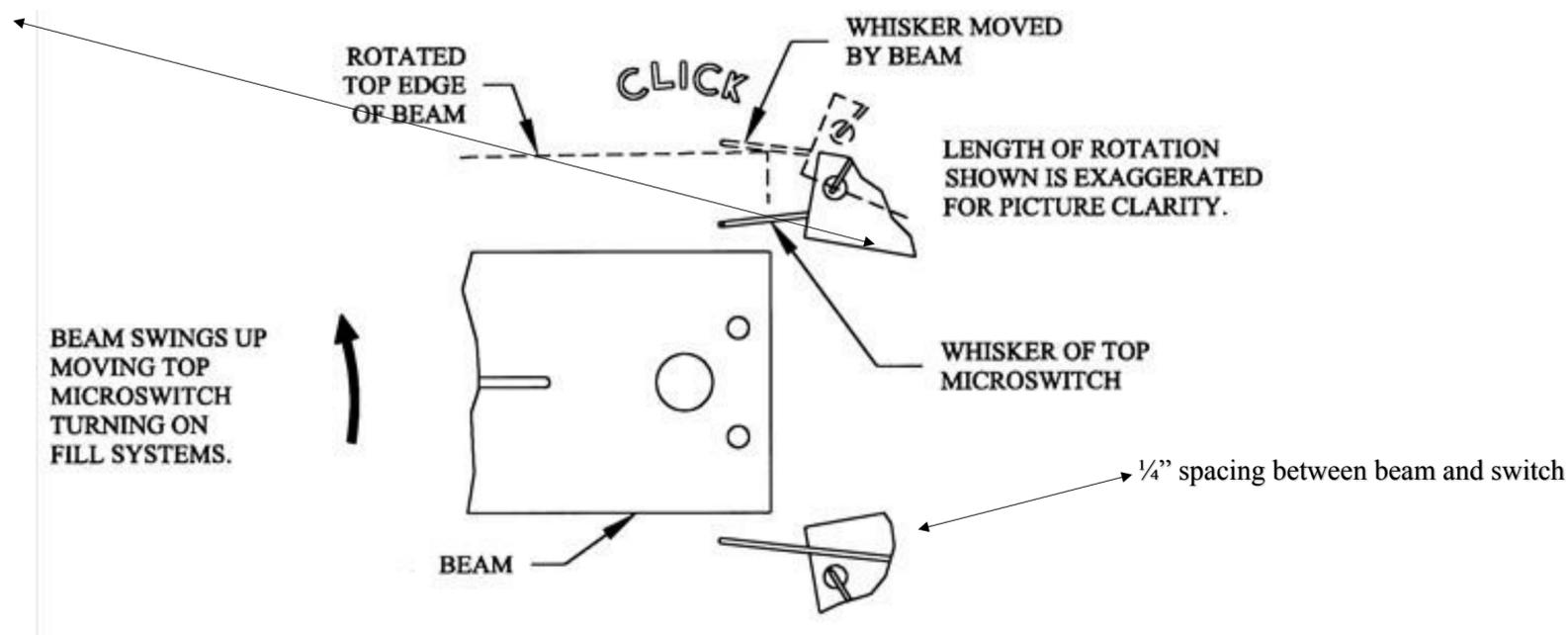


Fig 9

#### D 10) Charging the system.

Set the poise to 100 lbs. Start the fill system motor, the motor will stop when the 100 lbs. is reached. Slide the poise back to zero. Run each cross fill motors until feed is flowing out, stop the motors. Check the plastic bin boot and run enough feed to fill the boot if you choose to use a charge. Rebalance the scale to zero. The scale is now ready for use to weigh feed for production.

#### Suggestions:

Once a year clean off the concrete pad with pressure washer including the feet and center post of scale.

After feed is weight out and zeroed, then close door as a reminder that operation is complete and this also keeps the sun from fading the scale chart.

Never put any oil products on any parts of the scale.