SPINKS SCALE COMPANY, INC.

TESTING INSTRUCTIONS
ALL MODELS 400 lbs. THROUGH 5000 lbs. (Single and Double Hoppers)

TEST #1

CHECKING THE BALANCE OF THE SCALE
FOLLOW FIGURE #3

1. Make sure there is no feed in the hopper before starting.
2. Remove the slotted weights from the shot pot hanging on the tip of the beam.
3. Slide the poise back to 0 and tighten the screw so that the poise cannot move during this test.
4. The pointer on the indicator should now be pointed at the 0 on the chart:
    a. If the pointer is above or below 0 – adjust the back balance screw with a screw driver
    b. If there is not enough travel on the back balance screw, it will be necessary to add or subtract weight from the shot pot.
    Pointer above 0 on the chart – Add weight
    Pointer below 0 on the chart – Remove weight
    c. Be sure to adjust the back balance screw to its center position if the weight is to be added or removed from the shot pot. This will make fine adjustment of the pointer much easier to accomplish.

If 0 balance still cannot be achieved go to section #2 of TEST #2 and check for any of the problems listed.

Spinks Scale will rebuild and upgrade our older scales at a substantial cost savings for you or your customer.

TEST #2

1. Pull the tip of the beam down until it stops and release. The indicator should point at 0 when the tip has completed floating.
2. Push the beam up to the top and release. The indicator should repeat to 0 again. If it does not, the following steps should be taken:
    a. Check that the shipping bolts and wire tie straps have been removed from the spider and lever assemblies (Figure #1)
    b. Make sure that there are no insect or rodent nests on the lever systems, in the scale frame, in between the dust covers and spider assembly, or in the beam box around the beam or steelyard rod assemblies. If the scale is very old or the door to the beam box is frequently left open it is possible that there could be a nest in the indicator housing also.
    c. Check the position of the bearings on the pivots as shown in figure #2
    d. Check the steelyard rod where it goes through the bottom of the beam box to see if it is rubbing on the mouse guard. If it is you may have to file the opening larger to clear the rod.
    e. Check the loop and bearing assemblies shown in (Figure #3). Make sure the bearings are in place on each end of the pivots. There are 3 to check.

If the problem still is not solved please call us to arrange for service.

Spinks Scale Company, Inc. 1690 Highway 155 S. McDonough, GA 30253		Phone:(800) 443-8117 Fax: (770) 914-8888

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TEST #3

CHECKING THE CALIBRATION OF THE SCALE
FOLLOW FIGURE #3

1. You will need at least 1 – each 50 lb calibrated test weight to properly test the scale. The more weight that is used in testing the scale, the more accurate the test results will be.
2. Take all of the slotted weights off of the shot pot and check the 0 balance as described earlier. (Make sure that there is no feed left in the hopper)
3. When proper 0 balance has been achieved, you may carefully place the test weights on the corners of the top of the hopper.
    a. Set the poise on the beam to the corresponding weight.
    b. If you have 100 lbs. or more (in multiples of 100 lbs.) you can place the slotted weights onto the shot pot and check the balance this way. (Be sure the poise is set to 0 and locked if using the slotted weights to check calibration.)

       To assure that the poise is calibrated correctly, place 100 lbs. of test weights in the hopper, and put the 100x1 weight on the shot pot. Notice where the pointer lines up on the chart. Remove the weight from the shot pot and move the poise to 100 lbs. on the beam. The pointer should return to the same location on the chart within ± ⅛" If not, consult the factory immediately.

    c. The pointer on the indicator should be close to the 0 if the scale is correctly calibrated. If the pointer is not on 0 you can estimate each ¼" of distance that from the pointer to the 0 is equal to approximately a 1 lb error.

(Consult the factory before attempting to calibrate the scale)
Calibration test weights can be purchased from Spinks Scale Company. Call for Pricing.

TEST #4

FILL SYSTEM CUT-OFF ADJUSTMENT / MICRO SWITCH ADJUSTMENT
FOLLOW FIGURE #3

1. Make sure all of the cords from the control box are correctly plugged in and the gate is closed on the hopper.
2. Move the poise on the beam to 50 lbs. and tighten the screw so it cannot move during testing.
3. Push the start button. The fill system should stop when the pointer approaches 0 on the chart.
    a. If the pointer is below the 0 on the chart, raise the micro switch by turning the adjustment screw shown in (Figure #3).
    b. If the pointer is above the 0 on the chart, lower the micro switch by turning the adjustment screw in the opposite direction (Figure #3).
4. Move the poise up to 100 lbs. and repeat the sequence above.

Continue these steps until the pointer is within 1/16" of 0 on the chart.
Your scale is now properly adjusted for its most efficient operation.

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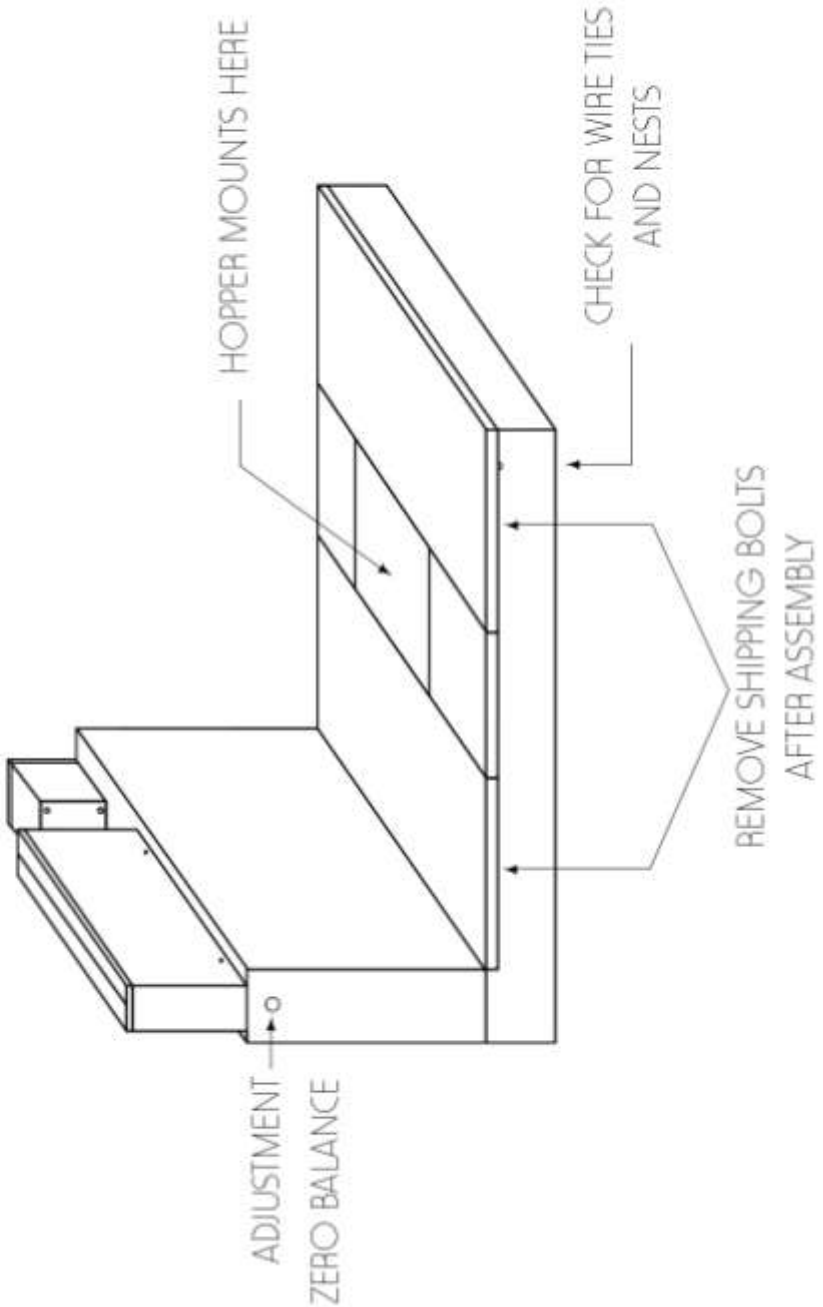
FIGURE 1



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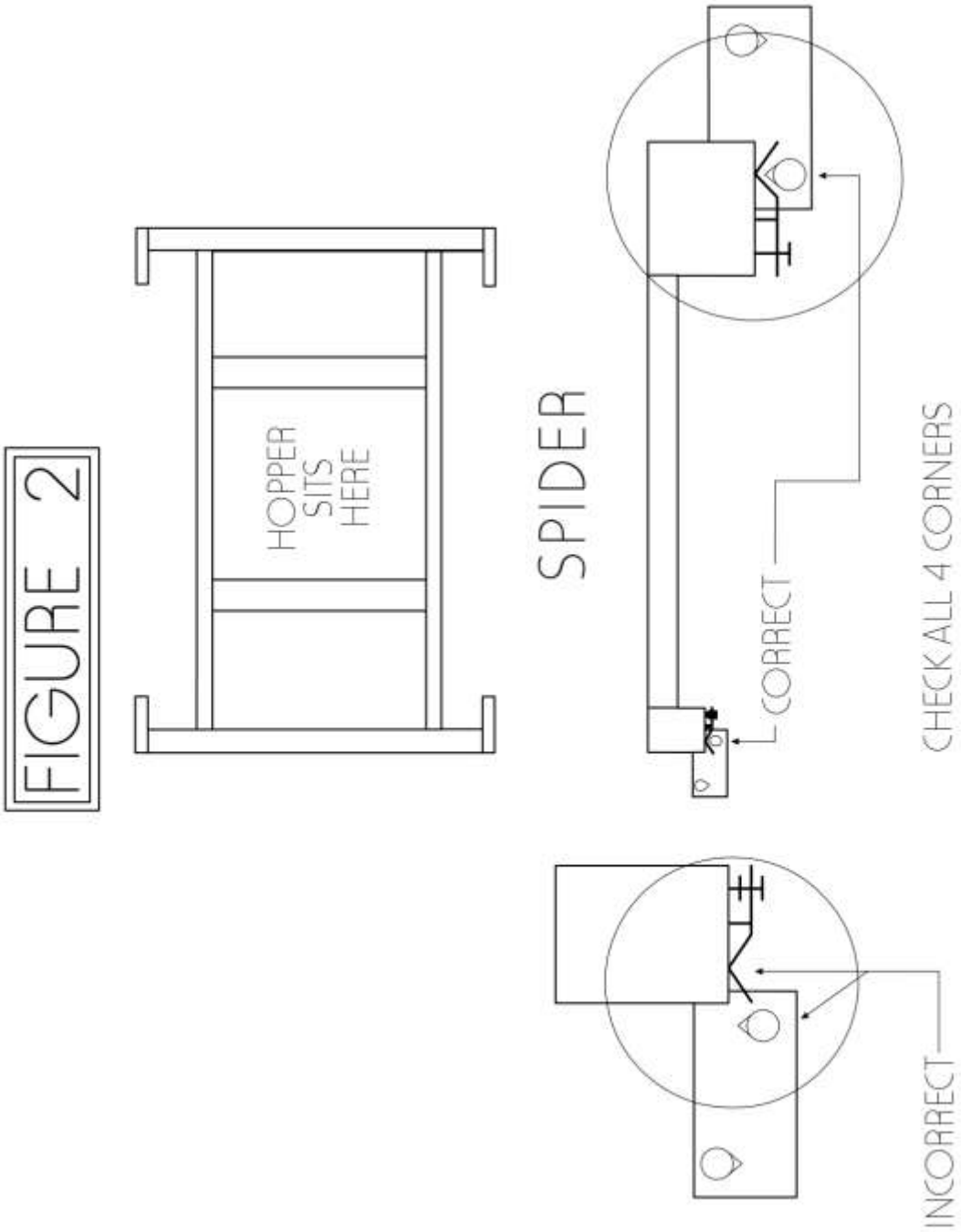

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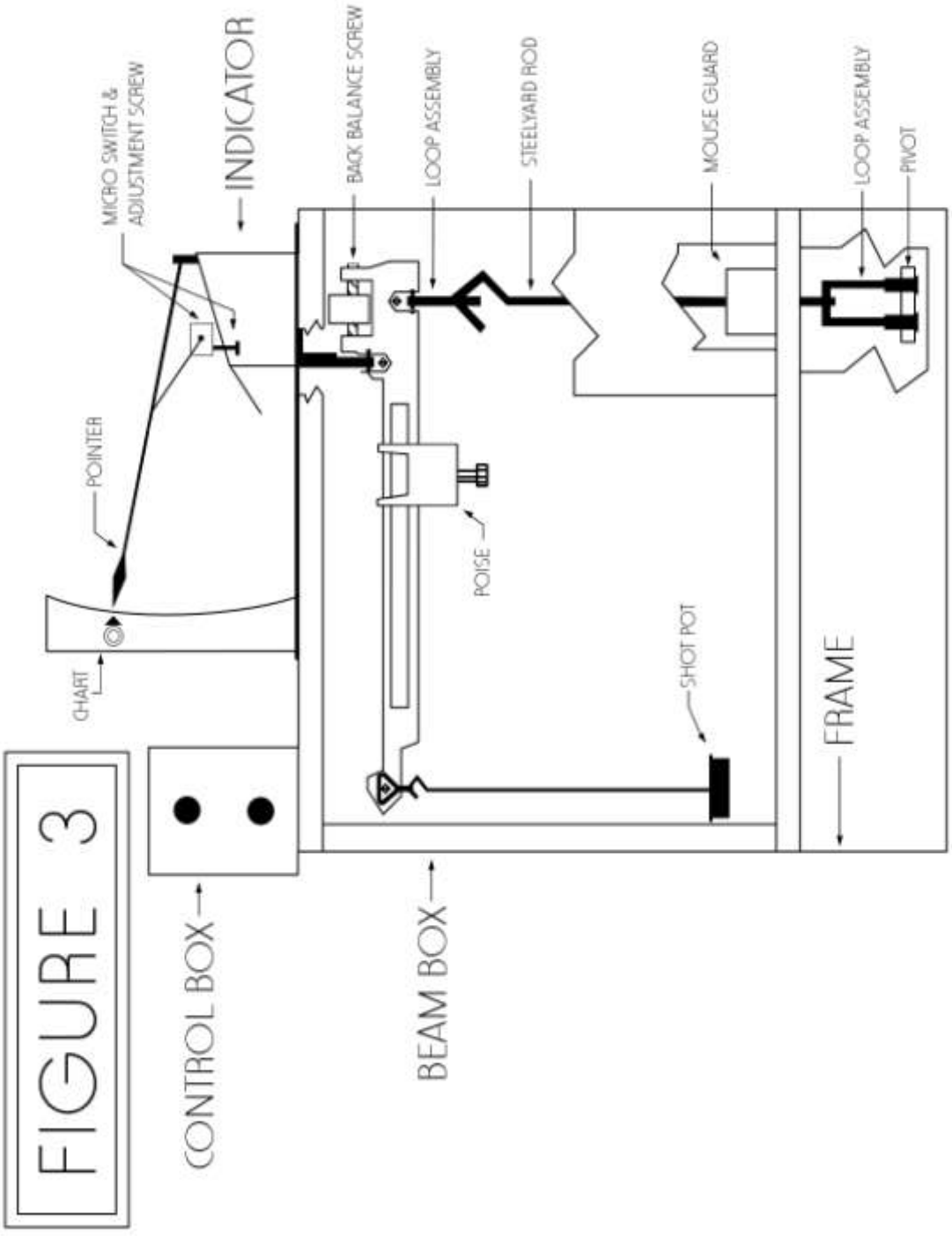

FIGURE 3

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