

No. 1524E and No. 1544E Incubators

Instructions For Loading Incubator

Before loading the incubator with eggs, **we advise a trial run without eggs** to insure that everything is in proper working order and the user has full working knowledge of the incubator. You should first insert the racks into the incubator for testing. Once tested, remove the racks to load the baskets with eggs, then replace the racks into the incubator for the recommended incubation period.

Inserting The Racks:

Before inserting the rack into the incubator it is necessary to understand how the parts interconnect to insure your incubator will operate properly. Each rack connects with two points in the rear of the incubator.

The first point is the rack positioner, which prevents any side to side movement of the racks. The second point is the connecting bar, which is the drive mechanism for all three racks. The pin extending from the center of the swing arm on the rack will connect to the rack positioner, while the pin extending from the end of the swing arm will couple with the connecting bar (See Figure 1).

When you receive your new incubator, the connecting bar should be in the proper position. To make sure of this, observe the two links in the rear of the incubator which connects the rack positioner to the connecting bar. These links should be in a **horizontal position** (See Figure 1). Use these links as a reference guide in the future. **The links should be in the horizontal position each time the racks are inserted or removed.**

The rubber bumper should extend out 1" from the front of the rack. If necessary, loosen the two nuts holding the bolt to adjust the bumper to its proper length. **To prevent damage, the bumpers are NOT set at the proper length when shipped.**

The racks are now ready to be placed inside the incubator. **INSERT THE BOTTOM RACK FIRST.** For observation, let the system cycle with only the bottom rack. This will give you the opportunity to see how the parts work together to drive the system.

CAUTION: Always insert the racks with the open end of the baskets facing up (as if you were about to load eggs into the basket). **Loading the racks into the incubator in any other way could cause permanent damage to your incubator.**

Slide the rack into the incubator. The pin entering the rack positioner will engage it-self first. The pin entering the connecting bar will then follow. It may be necessary

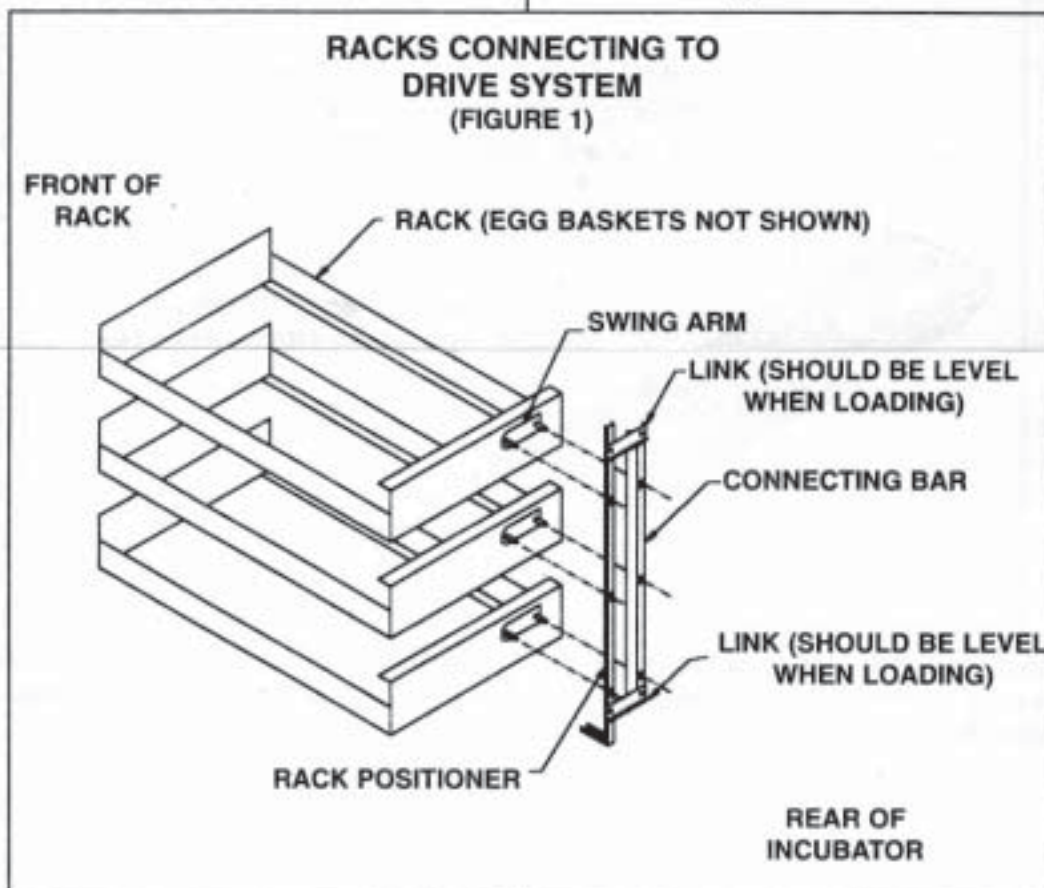
to pivot the basket slightly, which rotates the swing arm, while moving the basket back and forth slightly, in order to "feel" for the exact location of hole in the connecting bar, but it should be very close. Finding these holes blindly will become more natural as you continue to use your incubator.

The rack is fully engaged with the system when the front bumper extending from the rack is completely inside the incubator.

completely inside the incubator.

CAUTION: If you cannot completely close the incubator door due to the rubber bumpers extending from the racks, **the racks are not engaged properly.** Do not attempt to adjust the bumpers if the bumpers are set at the proper length mentioned previously.

Once the racks are inserted, **always make a manual test run.** This can be done by lifting up on the turnerswitch located on the side of the incubator to the manual position.



Loading The Egg:

Be certain the rack is on a solid flat surface before loading any eggs.

The eggs are held in place by support bands. The support bands are intended to cross the egg diagonally, forming an "X" across the egg. The bands are preset for an average size emu egg (3.50" diameter, 5.50" overall length) in the emu racks and an average size ostrich egg (5.50" diameter, 6.00" overall length) in the ostrich racks. Some changes in hook location may be necessary to accommodate large variances in egg sizes. Further detail is given be-low.

To load the baskets, simply lift the support bands from the center point at which the bands cross and gently slide the egg underneath the "X" into the basket. (See Figure 2)

Be certain to follow these three rules:

- 1). The "X" crosses the center of the egg.
- 2). The bands are lying flat (not rolled or flipped) on the surface of the egg.

- 3). The bands have proper tension. Proper tension is considered a tension that applies pressure to the egg, preventing the egg from sliding or shifting, but does not over-stretch the band causing it to become

excessively deformed and reduce the life of the band.

If an egg is unusually small or large, it may be necessary to adjust the support bands to accommodate the various egg sizes. **Remember the three rules** listed above when making these adjustments..

If your eggs are consistently small you may want to shim the eggs to align the eggs with the center of rotation of the basket. This will reduce the load and therefore add life to your incubator.

Once all the eggs are loaded into the rack, slowly turn the basket 90° from horizontal in both directions by

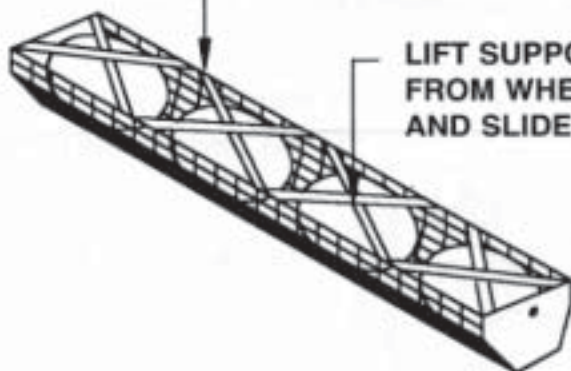
moving the swing arm in an up and down motion. This will insure the eggs are held in place correctly and there are no obstructions to prevent the baskets from turning properly.

Reminder: It is possible for the support bands to tear, especially as they begin to age. It is necessary to check your bands before each setting to assure they are in proper working condition. Make certain to check around the S-hook for

possible tears and to assure the bands are properly placed inside the S-hook loop. **The bands should be replaced periodically.**

**EGG BASKET
(FIGURE 2)**

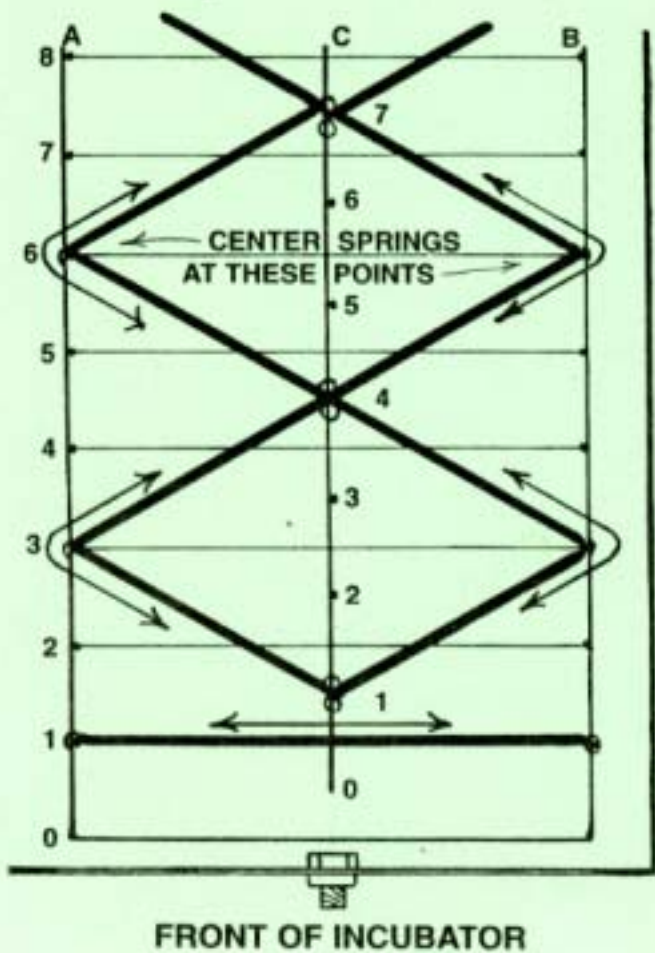
ADJUST S-HOOKS ON SUPPORT BANDS UP OR DOWN AS NEEDED TO SECURE EGGS PROPERLY



LIFT SUPPORT BANDS FROM WHERE THEY CROSS AND SLIDE EGGS UNDERNEATH

GQF. MANUFACTURING CO.

P.O. BOX 1552 • SAVANNAH, GEORGIA 31498 USA



MOUNTING RETAINING SPRINGS ON GOOSE EGG BASKETS - 1527E Viewed from Top

A & B SIDES OF BASKET
C CENTER PARTITION (OFFSET ½ INCH)

- 1) AT THE 'ONE INCH' WIRE OF THE BASKET, NEAREST FRONT OF INCUBATOR, STRETCH ONE SPRING FROM SIDE 'A' TO SIDE 'B'.
- 2) THEN, BEGIN AT 'C-1' AND RUN SPRINGS AROUND 'A-3' AND 'B-3' BACK TO 'C-4'. CONTINUE IN THIS MANNER TO EQUIP ALL BASKETS WITH SPRINGS. CENTER SPRINGS AT POINTS ON SIDES 'A & B'.

EGGS MAY BE STOOD ON THEIR ENDS OR LAID ON THEIR SIDES.

HEAVY LINES REPRESENT SPRINGS

**GQF MANUFACTURING CO.
SAVANNAH, GA 31402 USA**