

# Beam Testing Set-Up and Diagram

## Set-Up Supplies

- spring scale or weighing container
- weights (kg or lb) (**F**)
- 2 table tops (alternative: 2 ring stands)
- 10 lb test fishing line
- fishing line knot with paper towel to avoid line cutting into beam
- composite beams

## Set-Up Procedure

1. Cut four- to five-foot length of 10 lb test fishing line (**A**).
2. Fold line length in half and fasten to spring scale or weighing container (**B, A**).
3. Tie the ends together and wrap a paper towel in a neat folded fashion; place the towel on the beam top to protect the beam (see **C**); the large loop should have two tension lines per side (see **A**).
4. Move together two sturdy tables (see **D**) (or ring stands), leaving a distance between them of approximately three inches.
5. Make sure the beam (**E**), string and pan height have a clearance from the ground (or table top) of a minimum  $\frac{1}{4}$  inch.

