Operating Instructions for 1960-1980 Horizontal Beta™ Bottles

The bottle release mechanism is designed to be used *only* in a *non-series* operation mode.

A messenger is required to activate the tripping mechanism. We recommend an 11 oz. messenger (such as **45-B10**) unless there is a very long air drop and the bottle is close to the surface of the water, in which case a lighter-weight messenger may be desirable.

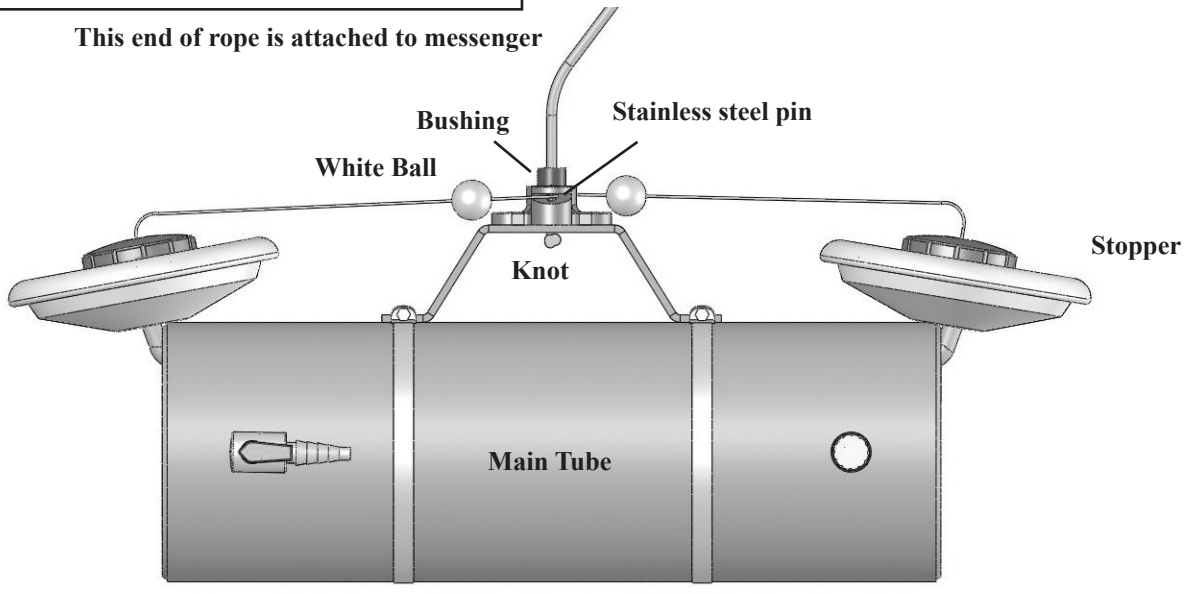
The maximum height a messenger should be dropped through the air is 30 feet (10m). Distances greater than this can damage the bottle. Use a shock absorber (**45-B40**) for long air drops. For air drops longer than 50 feet, please call for advice on the best method of tripping your bottle without damaging it.

Do not use a messenger heavier than 11 oz! Damage to your sampler may result.

Warranty and Parts:
We replace all defective or missing parts free of charge. Additional replacement parts may be ordered toll-free. We accept MasterCard, Visa, checks and School P.O.s. All products warranted to be free from defect for 90 days. Does not apply to accident, misuse or normal wear and tear. Intended for children 13 years of age and up. This item is not a toy. It may contain small parts that can be choking hazards. Adult supervision is required.

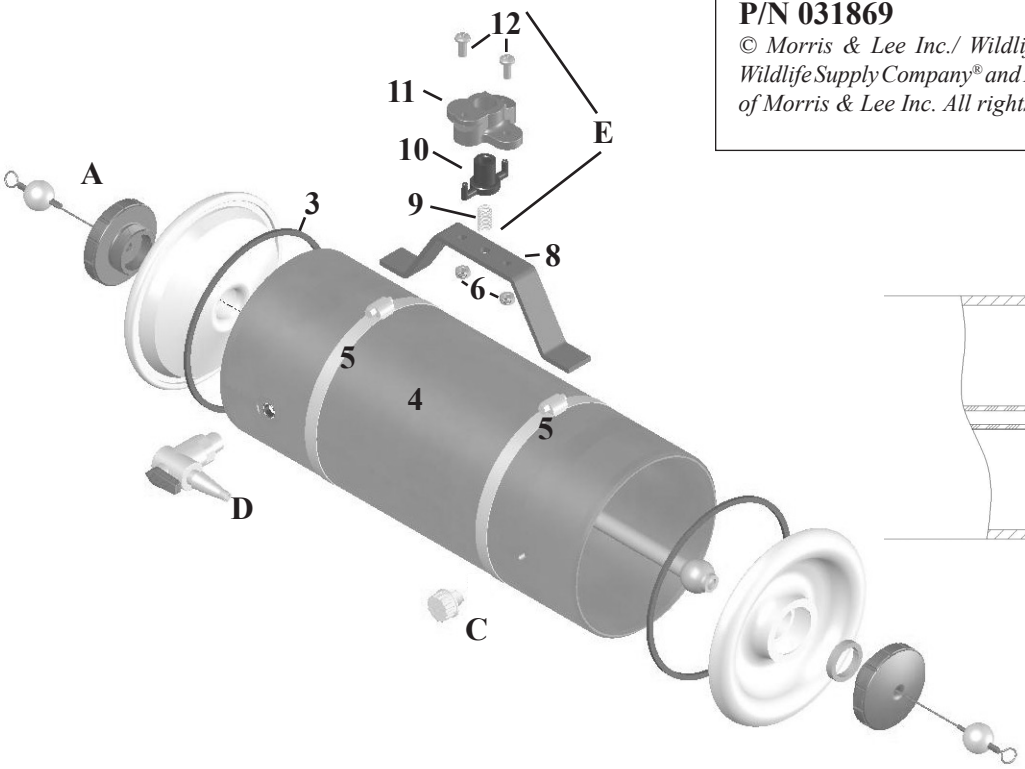
Procedure:

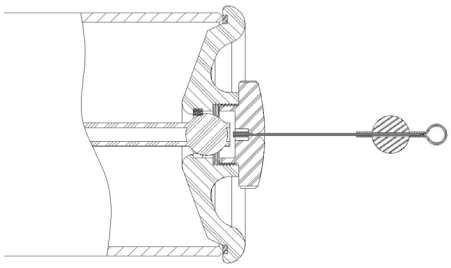
1. Make a preliminary inspection prior to using. Close the air vent and the drain valve.
2. Place the bottle so that the bushing on the trip mechanism is on the top of the handle.
3. Run a line or cable through the hole in the trip assembly and knot the line or secure the cable so that it cannot pull back through the hole. It must be securely fastened to hold the weight of the bottle when filled with the sample.
4. Find the two stainless steel pins in the trip assembly, 1/16" above the trip assembly.
5. Grasp the round white ball on the cable assembly. Pull the stopper out of one end of the main tube so the loop in the cable can be placed over the lower pin of the trip assembly (press the bushing down).
6. Repeat with the other stopper and hook the cable loop on the pin which projects above the plastic trip assembly. The bottle is now in the "SET" position.
7. Lower the bottle to desired depth in the water, keeping the line taut. Pull the bottle sideways to obtain a water sample for the desired depth. Drop the messenger down the line. It will strike the tripping mechanism, causing the cables to release and the stoppers to close, trapping the sample inside the bottle.



1960-1980 Horizontal Beta™ Samplers

Subassemblies and Replacement Parts





P/N 031869

Description	1960 Parts	1980 Parts
A. Cable assembly	1960-L30	1980-L30
B. Tubing assembly	1960-L33	1980-L33
C. Air vent assembly	1120-L35	1120-L35
D. Drain valve assembly	1120-L37	1120-L37
E. Trip assembly (6, 9-12)	1120-L40	1120-L40
Center assembly (A, B, 2, 3)	1960-L45	1980-L45
2. End seals with gasket (1 set)	1960-L11	1960-L11
3. Gasket kit, small	1960-L32	1960-L32
4. Main tube, acrylic	1960-L14	1980-L14
4. Main tube, PVC	1960-L13	1980-L13
5. Clamp (set of 2)	1160-L17	1160-L17

Components parts (not sold individually):

1. Retainer (1/2" ID - Fabricated, Nylon)
6. Nut (1/4-20 Hex stainess steel)
8. Bail
9. Spring
10. Bushing
11. Trip Housing
12. Screw (1/4-20x5/8 Pan Hd stainless steel)

Test before you sample!

We recommend that any new sampler be thoroughly cleaned prior to any sampling. In the event you are performing chemical sampling, before any sampling is done, first fill the sampler with distilled, contaminant-free water and test to determine what contaminants may be present in the sample.

We also recommend that the above procedure be repeated throughout the sampling season.

Beta™ bottles are not recommended for organic chemical sampling.