Healy Model 75 Series Inverted Coaxial Hoses

1.0 Healy Model No. 75 Series Coaxial Hose

Healy 75 Series Hoses and Hose Assemblies should be serviced by a Healy Certified Technician. However, GDF Owner / Operator can remove and install hanging hardware (nozzle, curb hose, breakaway, flow limiter and whip hose). Hoses should be inspected for kinks, flat spots, abraded outer cover (wire strands visible) and leaking fittings on a weekly basis.

Note: The following procedures shall be conducted after installation or repair, with the dispenser authorized and ready to dispense fuel.

1.1 Field Serviceable Hose Components

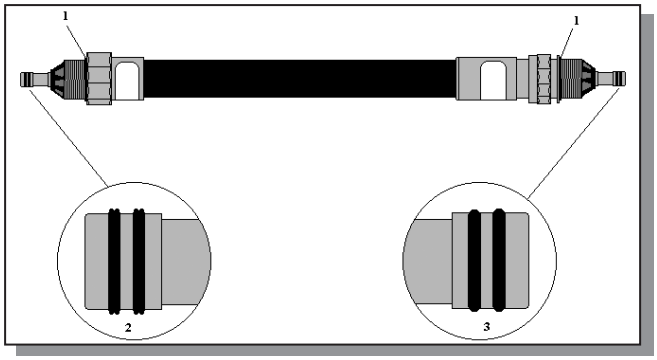
1.1.1 Healy Part No. HB-2 O-ring (Item 1, in Figure below). This o-ring seals the fitting to the nozzle and the adaptor. Liquid gasoline visible on the hose indicates a damaged or improperly installed HB-2 o-ring. Replace the o-ring, if necessary.

1.1.2 Healy Part No. HB-4 Quad Seals (Item 2, in Figure below). These quad seals are used on the end of the hose that attaches to the breakaway assembly (or flow limiter, if equipped). If the symptom is meter creep (gallons dispensed display on dispenser is counting up when the nozzle is not dispensing gasoline), check the HB-4 quad seals at the breakaway (or flow limiter, if equipped) end of the hose for cuts or damage. Replace the seals, if necessary.

1.1.3 Healy Part No. 291 O-ring (Item 3, in Figure below). These o-ring seals are used on the end of the hose that attaches to the nozzle or hose adaptor assembly. If the symptom is meter creep (gallons dispensed display on dispenser is counting up when the nozzle is not dispensing gasoline), check the 291 o-rings at the nozzle or adaptor end of the hose for cuts or damage. Replace the seals, if necessary.

Lubricate any o-ring or Quad Seal before installing the hose assembly into an adaptor, breakaway or nozzle assembly to make it easier to install and prevent the seal from getting cut. Motor oil (any weight) is acceptable for lubricating an o-ring or Quad Seal.

Rule of Thumb: *O-rings to Nozzle and Hose Adaptor*
Quad Seals to Breakaway (or Flow Limiter)



1.2 Healy Model No. 75B Series Coaxial Hose Breakaway

HEALY STAGE II VAPOR RECOVERY
PART NO. 8701VV BREAKAWAY (HOSE BREAK)
ASSEMBLY & INSTALLATION INSTRUCTIONS

- The Healy Breakaway is delivered loosely assembled. Handle carefully to avoid dropping and/or losing the precision parts.
- Failure to remove the Shear screw (Item 1) as described in Step 1 below could result in fracturing or shearing of the screw The Shear screw will require replacement if damaged.
- Be sure to assemble parts in the exact sequence as shown below.
- Be sure to lubricate all o–rings and quad seals where indicated. Use of ordinary motor oil is sufficient.
- Do not use thread–sealing compounds on straight threads.

ASSEMBLY INSTRUCTIONS
(refer to diagram at right)

1. Remove the Shear Screw (Item 1) and the packing materials. Separate the halves of the breakaway assembly, retaining the loose internal valves, (Items 2 & 3) and the spring (Item 13) inside the upper half.

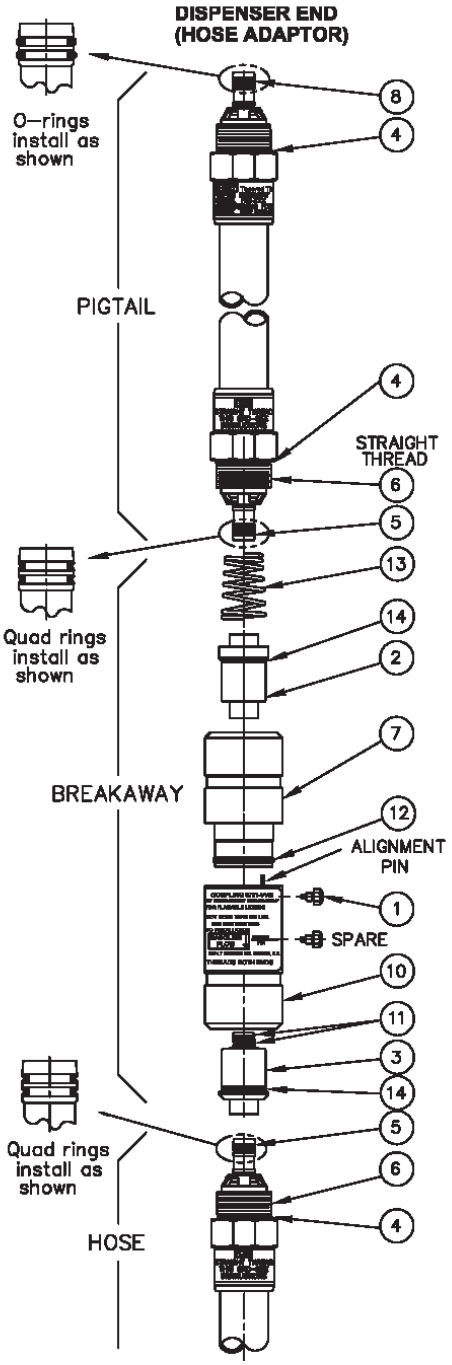
2. Select the pigtail, (whip hose) assembly. Lubricate the quad and o–ring seals (Items 4, 5, 8, & straight thread, Item 6). Assemble the pigtail to the input half of the Breakaway (Item 7) being sure that the larger end of the conical spring is centered in the groove on the white valve. Tighten hose to Breakaway at 35 to 70 foot pounds. Be sure the vapor tube fitting slides easily into item 2 before final tightening.

3. Select the delivery hose, lubricate the o–ring (Item 4), the quad seal (Item 5) and straight thread (Item 6). Assemble the end with the quad seal to the output half of the Breakaway (Item 10), install the secondary hose and tighten to 35 to 70 foot pounds. Be sure the vapor tube fitting slides easily into item 3 before final tightening.

4. Carefully fit both halves of the Breakaway together. Utlizing the alignment pin, fully compress both halves and insert the Shear Screw (Item 1) and hand tighten. Final tighten to 20 inch pounds. Tools should not be necessary to initially start the screws.

ITEM NO.	QTY	DWG NO.	DESCRIPTION	P/N
14	2	1–117	O–RING, PRECISION #9727	708
13	1	A8701–752	SPRING, CONICAL	752
12	1	1–122	O–RING, PRECISION #9727	709
11	2	78–312	O–RING, PRECISION #9727	75414
10	1	C8701–750–2	BODY, NOZZLE END	750–2
8	2	1–012	O–RING, PRECISION #5747	291
7	1	C8701–749	BODY, DISPENSER END	749
6	2		HOSE FITTING	
5	4	4012	QUAD–RING 514GJ	HB4
4	4	1–025	O–RING, PRECISION #5747	HB2
3	1	B8701–791	VALVE, NOZZLE END	791
2	1	B8701–748	VALVE, DISPENSING END	748
1	2	B8701–716	SHEAR, SCR.	787

LIST OF MATERIAL

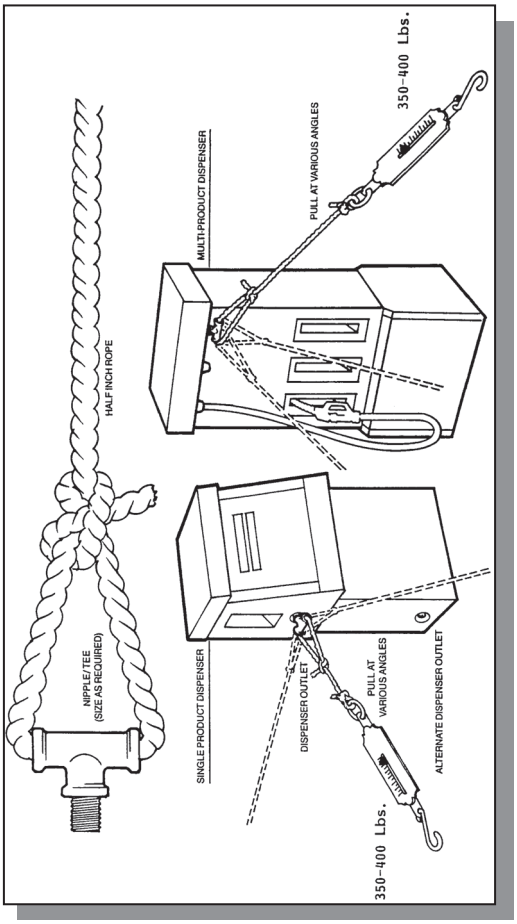


PRODUCT-TO NOZZLE-END

1.2.1 Assembly and Installation Instructions

1.2.1.1 UL-Required Notice

Underwriters Laboratories, Inc. (UL) requires that the installer of this product insure, before connecting this breakaway, that no damage will occur to the hose or dispenser before valve separation. The installer must test to be certain the dispenser is securely bolted to the dispensing island by using a procedure similar to that shown to the right and described below.



1.2.1.2 Pull Force Test

Attach a one-half inch diameter rope to the dispenser using a nipple/tee combination.
Before charging the dispenser with the product or with electrical power, attach the rope with a spring scale to the dispenser's product outlet.

Pull on the rope/scale with a gradual force up to 350 pounds. Observe the dispenser to assure there is no movement.

Perform this test from several different angles, being sure the dispenser is secure during each test.

After completion of testing, remove the rope and hardware to finish installation of the Healy hose and breakaway assembly.