

## 5-1/4" AMERICAN-DARLING® B-84-B-5 PARTS LIST



Part No.	Qty.	Description	Material
84-1	1	Operating Nut	Bronze
84-2-1	2	Cover O-ring	Buna N
84-2-2	2	Housing O-ring	Buna N
84-4-4	1	Thrust Washer	Nylatron
84-5-3	1	Pipe Plug	Stainless Steel
84-7-7	1	Weather Cover	Gray Iron
84-9	1	Housing Cover	Gray Iron
84-11-2	4	Housing Cover Cap Screw	Plated Steel
84-13	1	Housing Cover Gasket	Fiber
84-14	1	Housing Gasket	Composition Rubber
84-15	1	Housing	Ductile Iron
84-16	6	Housing Bolt and Nut	Plated Steel
84-18-60	1	Upper Barrel	Ductile Iron
84-19-SR	1	Lower Barrel	Ductile Iron
84-20-60	2	Hose Nozzle	Bronze
84-20-61	2	Hose Nozzle O-ring Seal	Buna N
84-20-62	2	Hose Nozzle Retainer	Ductile Iron
84-20-63	2	Hose Nozzle Retainer Washer	Teflon
84-21	2	Hose Cap	See Note 8
84-22	2	Hose Cap Gasket	Rubber
84-23-1	1 Per Nozzle	Hose Cap Chain	Steel
84-23-2	1 Per Nozzle	S Hook	Steel
84-23-18	1 Per Nozzle	Pumper Cap Chain	Steel
84-25-60	1 or 0	Pumper Nozzle	Bronze
84-25-61	1 Per Nozzle	Pumper Nozzle O-ring Seal	Buna N
84-25-62	1 Per Nozzle	Pumper Nozzle Retainer	Ductile Iron
84-25-63	1 Per Nozzle	Pumper Nozzle Retainer Washer	Teflon
84-26	1 Per Nozzle	Pumper Cap	See Note 8
84-27	1 Per Nozzle	Pumper Cap Gasket	Rubber
84-29-13	1	Barrel Flange	Ductile Iron
84-29-13B	1	Base Flange	Ductile Iron
84-29-14	2	Snap Ring	Stainless Steel
84-29-30	1	Rod Coupling	Epoxy Coated Gray Iron
84-29-31	2	Rod Coupling Pin and Clip Pin	Stainless Steel
84-29-45	1	Breakable Flange	Gray Iron
84-30-03	1	Spring	Stainless Steel
84-30-04	1	Spring Plate	Stainless Steel
84-30-06	1	Travel Stop Nut	Bronze
84-30-07	1	Spring Plate Pin	Stainless Steel
84-30-11	1	Upper Rod	Steel
84-30-12	1	Lower Rod	Steel
84-31	1	Drain Lever	Bronze
84-35-02	1	Hydrant Seat	Bronze
84-36-1	2	Hydrant Seat O-ring	Buna N

## 5-1/4" AMERICAN-DARLING® B-84-B-5 EXTENSION INSTRUCTIONS

[View Video](#)

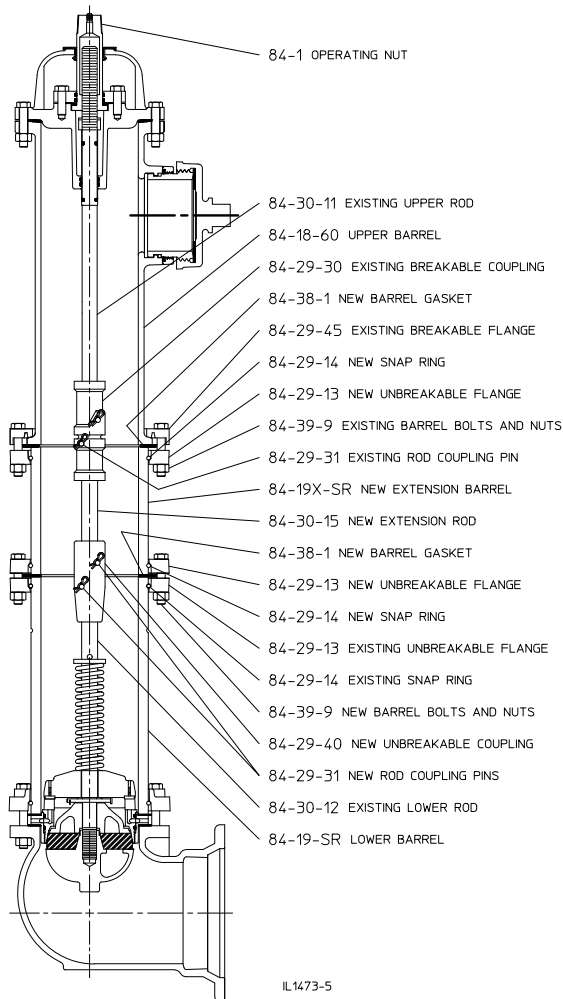


The 5-1/4" American-Darling B-84-B-5 hydrant is extended at the barrel flange above the ground line, eliminating the need for excavation.

### Parts Required for Hydrant Extension

84-19X-SR	1	Extension Barrel*
84-29-13	2	Unbreakable Flanges
84-29-14	2	Snap Rings
84-29-31	2	Rod Coupling Pins
84-29-40	1	Unbreakable Rod Coupling
84-30-15	1	Extension Rod
84-38-1	2	Barrel Gaskets
84-39-9	8	Barrel Bolts and Nuts

\*Extension barrels and rods are available in increments of 6", starting at 6" long.



NOTE: The use of extension lengths made by more than one extension kit is not recommended. When combined extension kit and existing trench depth exceeds 9 feet, replace existing lower rod with appropriate length lower rod instead of using rod extension. When combined length exceeds 12 ft, rod guides are recommended for lower rod.

### Procedure

1. Close hydrant valve. It is considered safe practice to close the auxiliary valve ahead of the hydrant, or use another means to cut off flow and pressure to the hydrant. Always standing to the side of the hydrant and away from the direction of the hydrant caps, loosen one of the hose caps to relieve any pressure that may be present in the hydrant barrel. **WARNING: FAILURE TO RELIEVE PRESSURE CAN RESULT IN THE CAP BLOWING OFF, CAUSING SERIOUS INJURY OR DEATH.**
2. Remove existing barrel bolts and nuts (84-39-9).
3. Remove existing traffic barrel flange halves (84-29-45).
4. Raise upper barrel (84-18-60) from lower barrel (84-19-SR) by turning operating nut (84-1) in the opening direction and lifting the upper barrel at the same time to prevent the hydrant valve from opening.
5. Raise the upper barrel until there is sufficient separation from the lower barrel to permit removing of the lower rod coupling pin (84-29-31) and clip pin. **Block upper barrel in this position to ensure protection while removing the coupling pins.**
6. Safely remove lower rod coupling pin and clip pin. Lift and remove upper barrel assembly. **Use proper lifting techniques to avoid injury.**
7. Assemble new unbreakable rod coupling (84-29-40) to one end of the new extension rod (84-30-15) in position as shown. Insert a new coupling pin (84-29-31) and clip pin. Assemble other end of new unbreakable rod coupling to existing lower rod (84-30-12) using a new coupling pin (84-29-31) and clip pin.
8. Remove old gasket and place new barrel gasket (84-38-1) on lower barrel.
9. Place assembly on lower barrel making sure gasket and hydrant barrel inside diameters are aligned.
10. Assemble new barrel bolts and nuts (84-39-9). Torque in an alternating pattern to 80 ft.-lbs.
11. Place new barrel gasket (84-38-1) on extension barrel. Lift upper assembly and attach existing breakable rod coupling (84-29-30) to new extension rod (84-30-15). **Use proper lifting techniques to avoid injury.**
12. **Block the upper barrel assembly as in Step 5** and insert a new coupling pin (84-29-31) and clip pin in the existing breakable rod coupling (84-29-30).
13. Lower upper barrel assembly to the extension barrel by turning operating nut in the closing direction, making sure gasket remains centered. Lift barrel flange and assemble breakable flange halves by using existing barrel bolts and nuts (84-39-9). Torque in an alternating pattern to 55-60 ft.-lbs. Important: **Make sure gap between barrel flange (84-29-45) and new barrel flange (84-29-13) is equal around circumference of flanges.**
14. Safely shell test hydrant for joint tightness.