

Warning

DAMAGED HOSE, THAT IS NOT REPLACED, CAN RESULT IN HOSE BURSTS AND COUPLING BLOWOFFS THAT CAN RESULT IN PROPERTY DAMAGE, SERIOUS INJURY OR DEATH

Instructions for use and repair of Poly-Flow Cobra™ Sewer Cleaning Hose

I. HOSE CERTIFICATION This assembled coil of Poly-Flow Cobra™ sewer cleaning hose has been designed, manufactured and tested to meet the Recommended Specifications and Repair/Inspection Procedures for High Pressure Hose used in Conjunction with Sewer/Catch Basin Cleaning Equipment, which was developed under the sponsorship of the Waste Equipment Technology Association updated WRP 05-1996.

II. HOSE IDENTIFICATION AND USE

Cobra™ Hoses are intended for use at specific working pressures with water temperatures from 32° F to 100° F.

POLY-FLOW COBRA™ SEWER CLEANER HOSES

Hose I.D.	Cat. No.	Working Pressure-psi	Cover Color	Tube* Color	Hose O.D.	Min. Test Bend Radius	Req'd Test Pressure-psi
3/4"	4625-12	2500	Orange	Cream	1.135"	8	3125
1"	4625-16	2500	Orange	Cream	1.410"	9	3125
3/4"	4630-12	3000	Blue	Cream	1.145"	8	3750
1"	4630-16	3000	Blue	Cream	1.465"	12	3750

*Identifies all Poly-Flow Cobra™ Sewer Cleaning Hoses.

- A. Fittings, hose, assembly tools and inspection gages of each specific manufacturer will be color coded as designated by WASTEC. Poly-Flow has been assigned the color **CREAM**. UNDER NO CIRCUMSTANCES should hose and fittings made by different manufacturers be mixed!
- B. Poly-Flow Cobra™ Hose can be easily identified by the **Cream inner tube**. This color has been assigned exclusively to Poly-Flow by WASTEC to identify Poly-Flow sewer cleaning hose and couplings. Our hose can ONLY be spliced and repaired using Poly-Flow SC Series couplings, assembly equipment and assembly instructions.
- C. All Cobra hose assemblies are pressure tested!

III. INSTALLATION INSTRUCTIONS – To place a new reel of Poly-Flow Cobra™ Sewer Cleaning hose into an OEM vehicle, read and follow the OEM instructions explicitly! In addition, the following are offered.

- A. Tip the hose reel into a vertical position so it is supported on the two flanges.
- B. Put a heavy steel pipe or rod through the hole in the center of the reel and place it on a tripod, or support it on the forks of a fork lift truck so the reel can turn easily.
- C. Attach the end of the hose to the OEM reel, making sure the natural curvature of the hose is properly aligned
- D. Rotate both reels, winding the new hose onto the OEM reel with only a slight tension on the hose. Make sure you do not twist or flatten the hose during this process.
- E. Attach the rubber leader hose and nozzle as recommended by NSWMA specifications.

IV. SPECIAL OPERATING REQUIREMENTS

- A. Never use hose at a pressure higher than 2500 psi (Orange Cover) or 3000 psi (Blue Cover).
- B. Never bend hose smaller than the minimum test bend radii shown above.
- C. Use a rubber leader hose on the nozzle end of the sewer cleaning hose.
- D. Use guides to protect and control movement and routing of the high pressure cleaning hose.
- E. Always use a nozzle guard on the sewer cleaning nozzle.
- F. Never push or force high pressure hose into a sewer.
- G. High pressure hose shall be pulled using only the hydraulic equipment provided by the OEM for this purpose.
- H. Wear a protective helmet when working around sewer cleaning equipment.

Failure to follow proper operating instructions could result in serious injury or death

V. IN SERVICE HOSE MAINTENANCE

- A. Cobra™ hoses in service should be inspected and monitored, after each use, for the following conditions:
- B. Movement or slipping of the hose at each coupling or splicer (mender).
- C. Damaged cover exposing the fabric reinforcement and cuts in the cover.
- D. Cover blisters or bubbles.
- E. Hose kinking or severe flattening.
- F. Couplings or splicer fittings cutting into hose at the end of the connection.
- G. If any of these conditions are found, the hose should be removed from use at once!

VI. HOSE MENDING INSTRUCTIONS

When your Cobra™ high pressure cleaning hose is damaged in service it may be repairable. However, hose, fittings and assembly equipment from various manufacturers differ greatly and **MUST NEVER BE INTERCHANGED!** The color code assigned to Poly-Flow sewer cleaning products is Cream and our hoses, identified by a Cream inner tube, should ONLY be repaired with Poly-Flow SC Series couplings, menders, and assembly equipment! **FAILURE TO DO SO CAN LEAD TO HOSE BURSTS OR FITTING BLOW-OFFS THAT COULD RESULT IN PROPERTY DAMAGE, SERIOUS PERSONAL INJURY OR DEATH!**

Warning**DAMAGED HOSE, THAT IS NOT REPLACED, CAN RESULT IN HOSE BURSTS AND COUPLING BLOWOFFS THAT CAN RESULT IN PROPERTY DAMAGE, SERIOUS INJURY OR DEATH****HOSE MENDING INSTRUCTIONS (Con't)****A. Inspect Hose After Damage Has Occurred**

1. Unreel hose and disconnect the hose from the reel and nozzle. Carefully inspect the hose for:
 - a. Hose bursts
 - b. Cover damage exposing the fabric reinforcement and cover cuts.
 - c. Blisters or bubbles on cover.
 - d. Kinking or severe collapse
 - e. Fitting ends cutting into the hose
 - f. Movement or slipping of hose from fittings.

B. Identify the number of areas to be repaired and the number of splicers already in the hose. No splicer shall be located within 50 ft. of a hose end or another splicer. DO NOT repair the hose more than two times.

C. Locate each area to be mended in a clear work area to complete the repair.

1. The damaged areas should be cut out, cleanly and squarely, a distance of at least 12 inches on each side of the damage.
2. Discard all damaged hose sections.

D. Inspect both hose ends very carefully for all of the following:

1. Check hose for a Cream tube to match the SC Series fittings and assembly equipment from Poly-Flow. If tube is not Cream, **DO NOT PROCEED** with repairs unless you obtain the correct color coded fittings, tooling and repair instructions from the proper hose manufacturer.
2. Check for entrapped water in the fabric reinforcement. If water is present in the fabric, the hose cannot be mended and should be discarded!
3. Check for any indication of separation of the fabric reinforcement from the inner tube and the outer cover around the entire hose circumference. If any separation is evident, the hose end(s) shall not be mended.
4. Inspect outer cover in repair area! If cover is worn, cut, not of uniform thickness or otherwise damaged, the hose end shall not be mended.
5. **DO NOT REPAIR THE HOSE IF THERE IS EXCESSIVE WEAR!!**

E. If any hose ends fail to meet the conditions explained in (E) above, that end should not be mended! We suggest you cut off an additional 4 to 5 feet of hose and repeat the end inspection. If the hose end fails to pass this second inspection, the entire length of hose should be discarded.

VII. ASSEMBLY INSTRUCTIONS – Assembly of your hose should be done using SC Series couplings, equipment and instructions. Follow the instructions explicitly! Do not mix other manufacturer's hose or couplings with the Poly-Flow products, and DO NOT IMPROVISE!

VIII. TESTING

- a. When the repair of your Cobra™ Hose is complete, the line should be tested as follows:
- b. Place hose with one end higher than the other. Fill with water to remove all trapped air by bleeding off air from the highest end fitting.
- c. Install a valve on one end of the assembly that will handle the required test pressure shown in Section II of these instructions. (This valve should be used to slowly bleed off the pressure after the test is completed).
- d. Connect the other hose end to an appropriate water pump and pressurize hose to the required test pressure for 5 minutes.
- e. Slowly bleed off pressure. CAUTION: (Make sure pressure is completely released before proceeding).
- f. Inspect test assembly for the following:
 - a. Signs of water leakage
 - b. Blisters or bulges in the cover.
 - c. Movement of the hose at the mender or the end fittings.
- g. If any of the above conditions are present, the hose is unsafe to use. TERMINATE the testing, isolate the damaged area(s) and repeat the above instructions starting at VI above.

WARNING: A FAILURE OF THE HOSE OR FITTINGS MAY OCCUR DURING PRESSURE TESTING. THE HIGH PRESSURES INVOLVED POSE A HAZARD THAT COULD CAUSE PROPERTY DAMAGE, INJURY, OR DEATH. LOCATE THE HOSE IN AN AREA AWAY FROM PERSONS AND PROPERTY, AND STAND CLEAR OF THE HOSE WHEN PRESSURE IS APPLIED.

IX. RETURN TO SERVICE

- a. When your assembly has been successfully tested it can be returned to service.
- b. You should continue to inspect all sewer cleaning hoses after each use for the following conditions.
 - a. Coupling movement at all fittings.
 - b. Cover damage exposing the reinforcement.
 - c. Cover blisters or bubbles.
 - d. Hose kinking or severe flattening.
 - e. Couplings or menders cutting into hose.

NOTE: If you have any questions regarding the use, installation, or repair of Poly-Flow Cobra™ Sewer Cleaning Products please contact Poly-Flow @ (503) 493-0015