

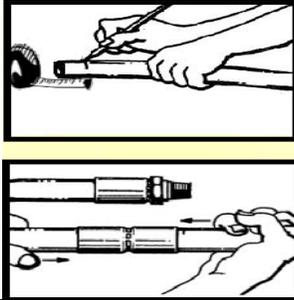
PIRANHA SEWER ASSEMBLY INSTRUCTIONS

HYDRAULIC SWAGE

The use of end fittings and assembly tooling other than that supplied by Piranha Hose Products is at the risk and liability of the user.

STEP 1

Cut the hose ends off square. Using a ruler measure the distance from the end of the hose equivalent to the "Insert Depth" shown on the chart below. Mark the hose with a marker.

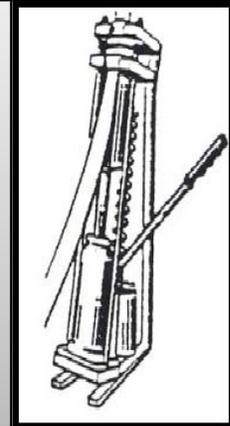


STEP 2

Insert hose into the fitting or mender to the insertion depth mark on the hose. You may have to do a twisting motion or a water soluble soap solution to assist you. **DO NOT USE OIL TO ASSEMBLE THE FITTING OR MENDER ON THE HOSE.**

STEP 3

Place the hose with the fitting or mender in the swage machine along with the proper dies and pusher. Position the dies so that their splits are away from the openings. Lubricate insides of the dies with oil. **Please Note:** An end fitting will require 1 set of dies and 1 pusher. A mender will require 2 sets of dies.

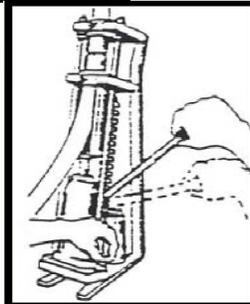


STANDARD PIRANHA SEWER HOSE
INSERT DEPTH

HOSE SIZE	END FITTINGS	MENDER
-8	1.375	NA
-10	1.813	1.500
-12	1.750	1.500
-16	2.125	1.750
-20	1.750	2.250

STEP 4

Choose the pressure relief valve on the jack and begin swaging by pumping the jack handle.

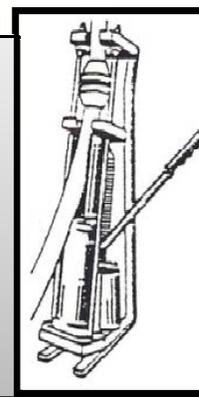


STEP 5

Continue to pump until the dies are drawn together to within 1/16" of each other.

STEP 6

Open the pressure relief valve on the jack and allow the swage machine to fully open.

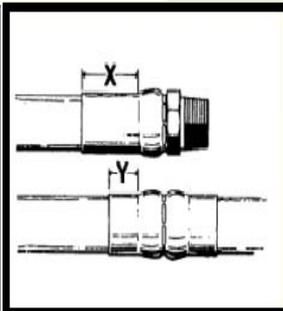


STEP 7

Remove the hose from swage machine. Tap the dies lightly with a rubber mallet to remove them from the fitting or the mender.

STEP 8

Inspect the fitting or mender. The swage should be uniform. The bulge appearing on the fitting after the swaging operation should be minimum distance from the edge of the fitting or mender. The chart to the right gives this distance per hose size.



STANDARD PIRANHA SEWER HOSE

		END FITTINGS		MENDER	
HOSE SIZE	LENGTH (x)	DIAMETER	LENGTH (y)	DIAMETER	
SHP -8	1.000	0.900	1.050	0.900	
LL -8	1.250	0.850	1.050	0.850	
-10	1.313	1.030	1.000	1.030	
-12	1.125	1.212	1.000	1.212	
-16	1.875	1.485	1.125	1.485	
-20	1.430	1.860	1.750	1.860	

End fittings and menders for thermoplastic hose are not interchangeable. It is essential that hose, end fittings, menders, and tooling be properly matched. The inner tube of all Piranha Sewer Cleaning Hose is yellow, as assigned by WASTEC (Waste Equipment Technology Association) for the manufacture identification code. To assure proper matching of all components, the hose tube material, end fittings, menders, and tooling must be color coded yellow. While there may be several sources of end fittings and assembly tooling that bear the yellow color coding, for safety and reliability end fittings and assembly tooling should be purchased directly from Piranha Hose Products.

A Piranha supplied swaging machine is required for the installation of end fittings and menders. All assembly tooling is designed and produced to be compatible with the Piranha Hose Products supplied swaging machines.

