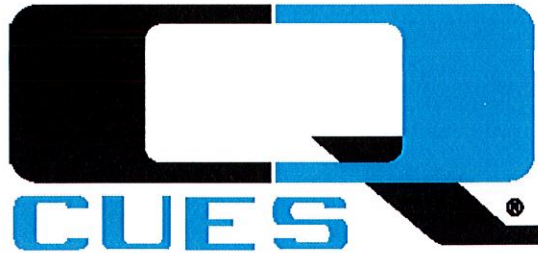


**"The Standard of the Industry"**



**Document Number:**

**HD339-INST**

**Description:**

**INSTRUCTION SHEET**

**PLATFORM ASSY, DUC LAUNCHER, W/ ROPES**

Signature: *[Signature]* CHKR

Signature: *Tony Whiting* ENGR 6/17/16

Signature: *[Signature]* MFG 6/21/16

ECN: \_\_\_\_\_ Revision: \_\_\_\_\_

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## Instructions for using the HD339 (Platform assy, DUC Launcher, w/Ropes) and HD120 (Launcher Rope Support Structure)

1. Release the cam handle on the bottom of the platform. Extend the platform to the maximum length that will fit within the diameter of your inspection environment. ***Extending the platform to the maximum length will prevent the platform from being pushed out of the pipe when the transporter is being retrieved back onto the platform.*** Retighten the cam.



2. Attach one set of ropes across the rear of the Launcher and the other set across the front of the launcher. The further the offset is away from the opening of the manhole, the further back on the launcher platform you may need to attach the front rope.





3. Position the Launcher Support Structure across the manhole with the cleats on the same side as the invert you are going to inspect. Position the launcher behind the Support Structure



4. Pass the rear rope through the eyelet of the center cleat. Loop the rear rope around the cleat and pull tight as illustrated below. This step is a precautionary measure meant to attach the platform to the top side support structure in case the launcher is accidentally dropped during positioning.



5. Gather the rear ropes in one hand and the front ropes in the other. Angle the front of the platform into the pipe and lower the assembly while guiding the tongue of the platform towards the lip of the invert.

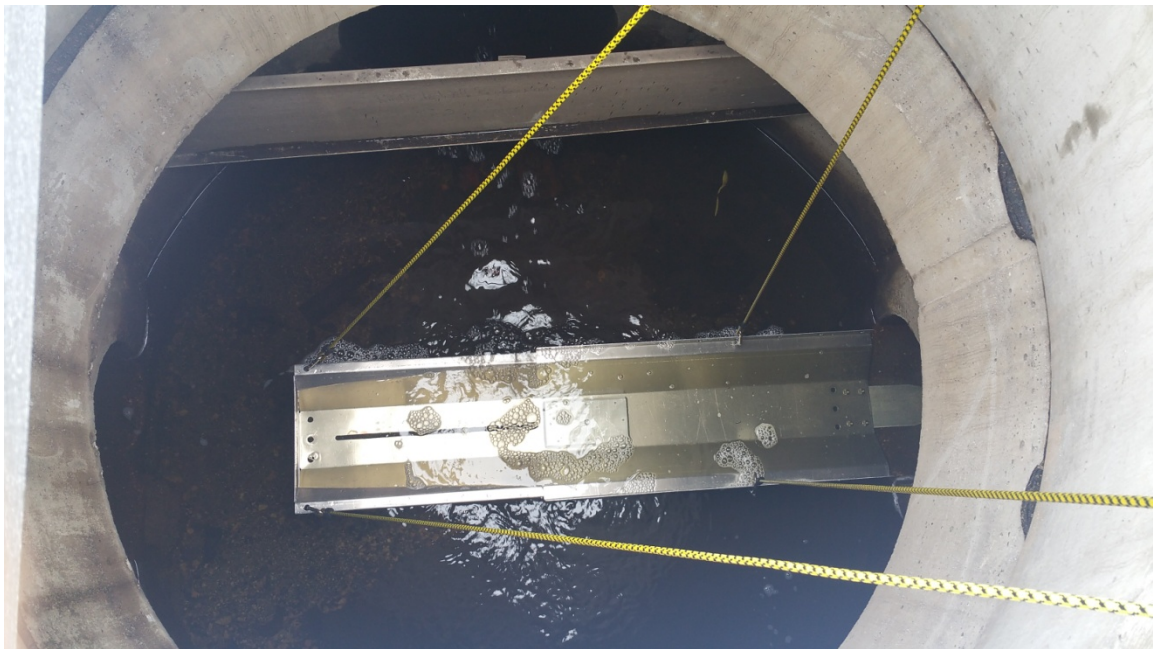


6. The platform is in place when the tongue is inside the invert and the body of the platform is even with the outside lip of the invert as shown below. If the invert cannot be reached, you can extend the length of the platform and move the front ropes further back to gain some additional distance. During this procedure, the front ropes are used mostly for guidance, while the rear ropes and tongue provide platform support.





7. Once the platform is in place, tie off both sets of ropes to the side cleats on the support structure.



8. The launcher platform is now ready for use.
9. Reverse the steps above in order to remove the launcher platform from the invert.