



Kennedy Valve



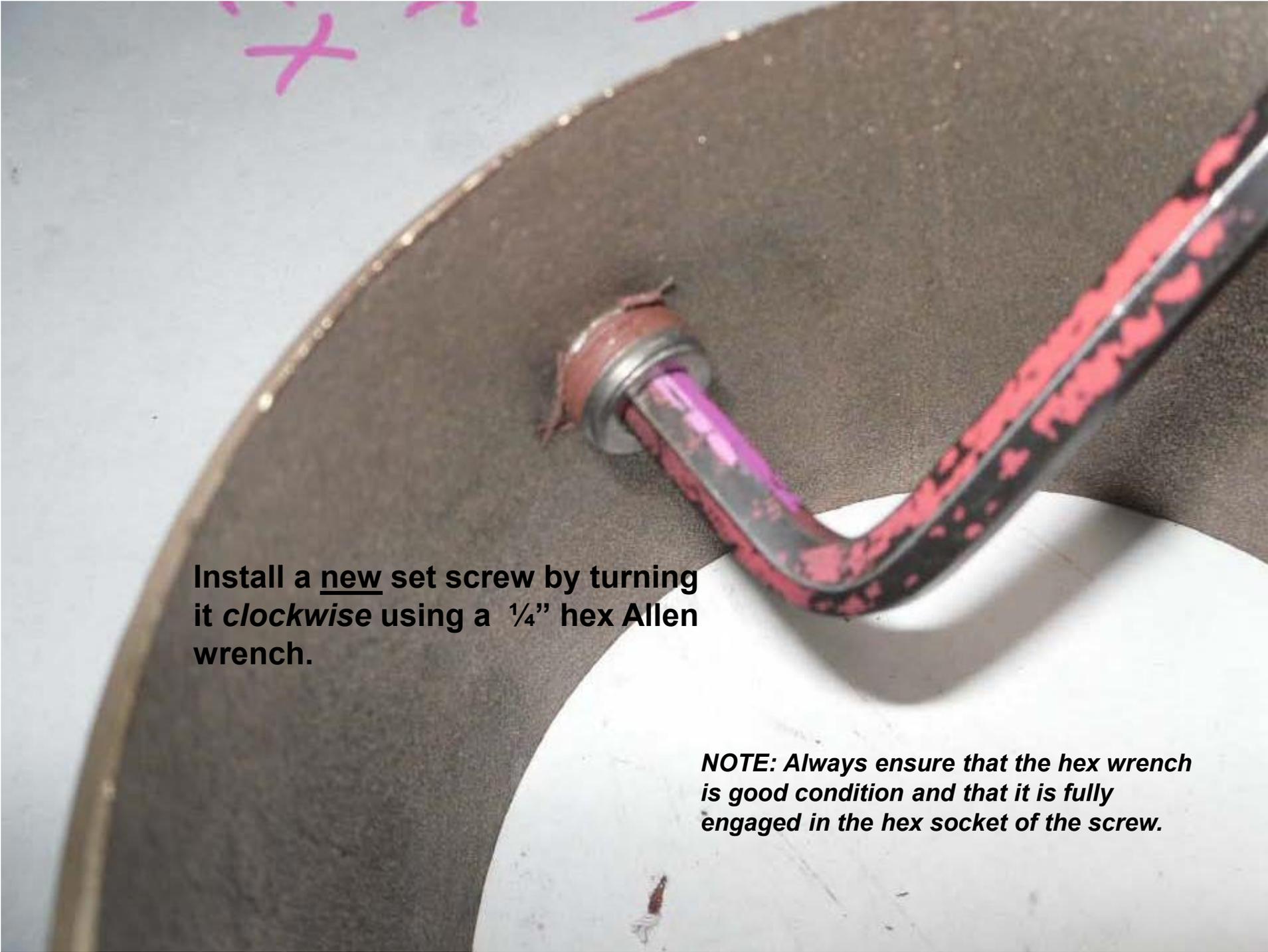
K81 Guardian Hydrant

Nozzle Installation Procedure





Nozzle set screw holes are gauged for proper fit to assure sealing and control of installation torque.



Install a new set screw by turning it *clockwise* using a ¼" hex Allen wrench.

NOTE: Always ensure that the hex wrench is good condition and that it is fully engaged in the hex socket of the screw.

**Thread the set screw in
until flush with outside
surface.**

***Note: End of set screw
painted white for clarity.***



After inspecting the o-ring seating surface in the upper barrel for dirt/debris, lightly lubricate and install a new o-ring as shown (use *Nevastane or comparable food grade grease*).



Insert the nozzle as shown and until contacting the o-ring.



By hand, rotate the nozzle counter-clockwise as far as possible assuring that the nozzle and the o-ring remain centered.



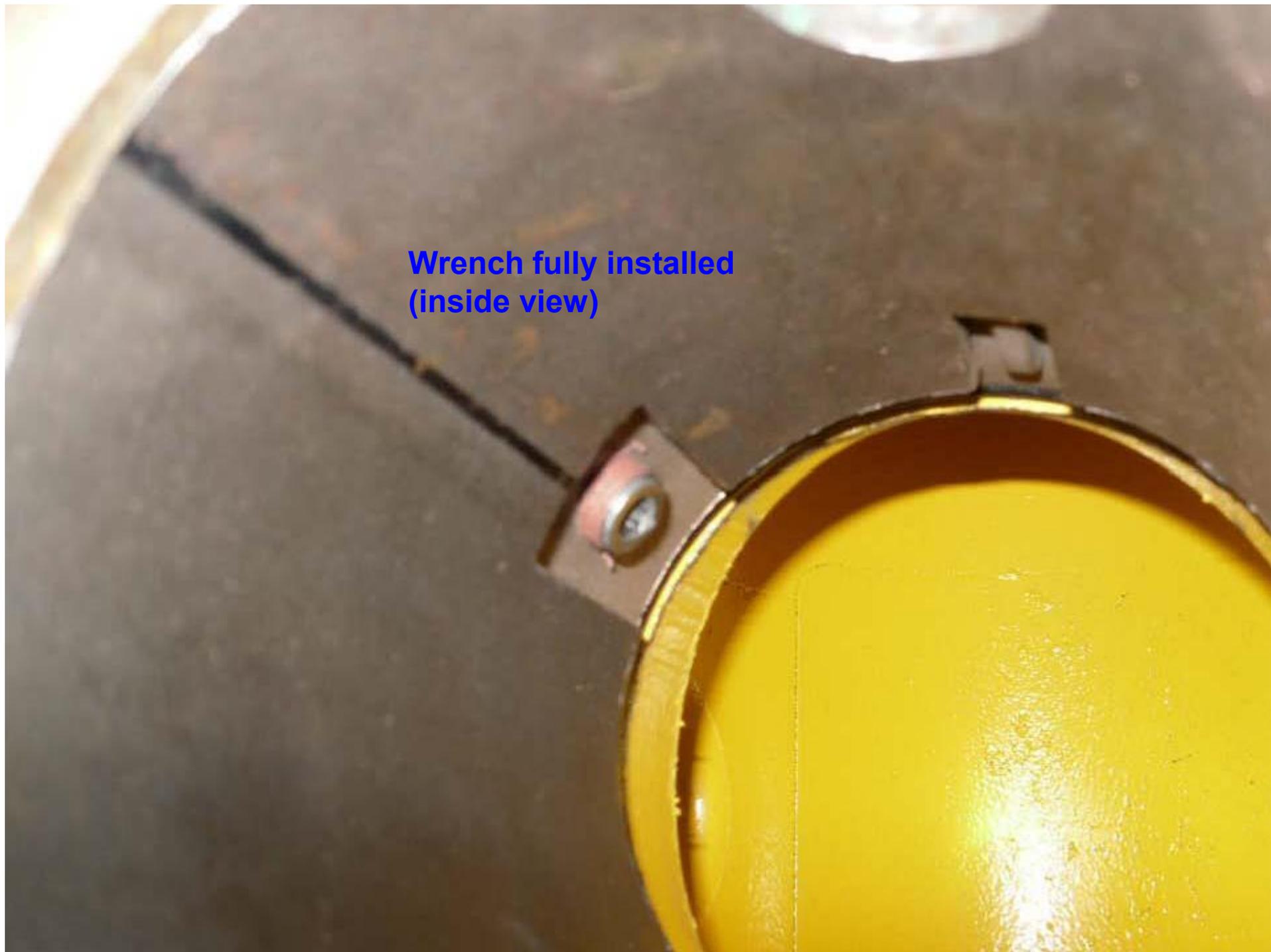


Using the proper size Kennedy nozzle installation tool, insert the tool such that the larger notch fits over the set screw and engages the drive lugs (push in as far as it can go).

Wrench shown installed

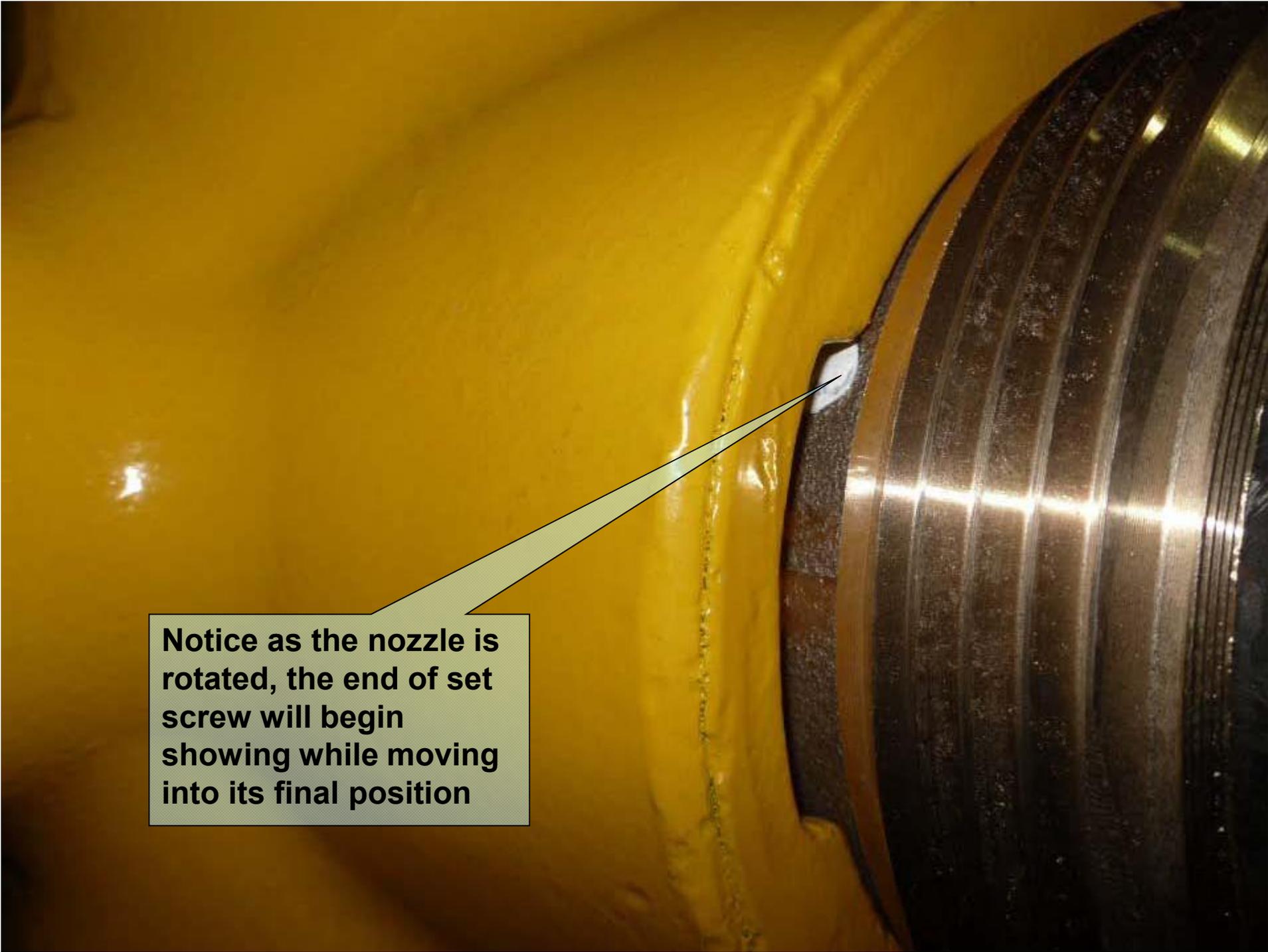


**Wrench fully installed
(inside view)**



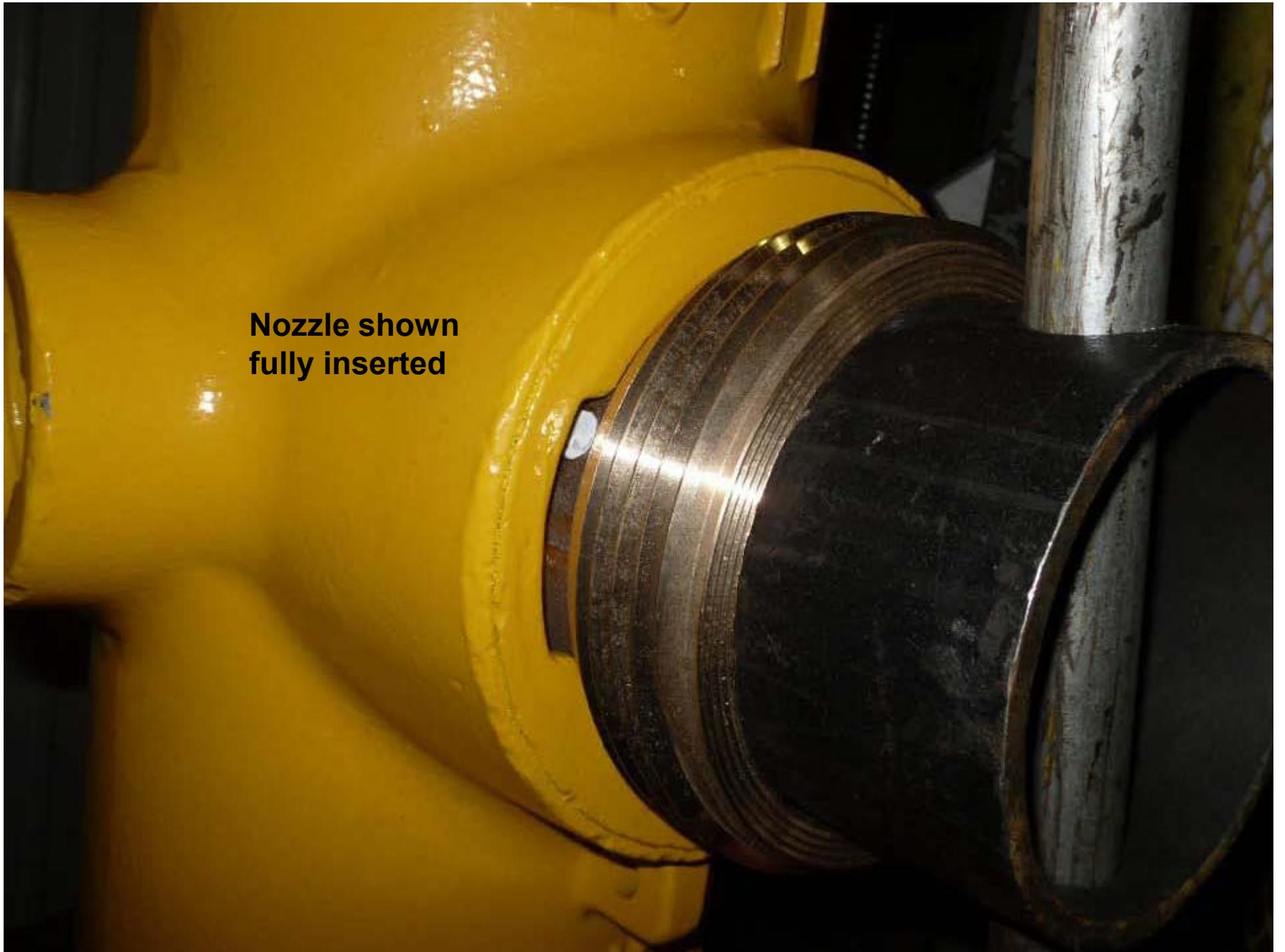
**Rotate nozzle
counter-clockwise
using steady
force.**

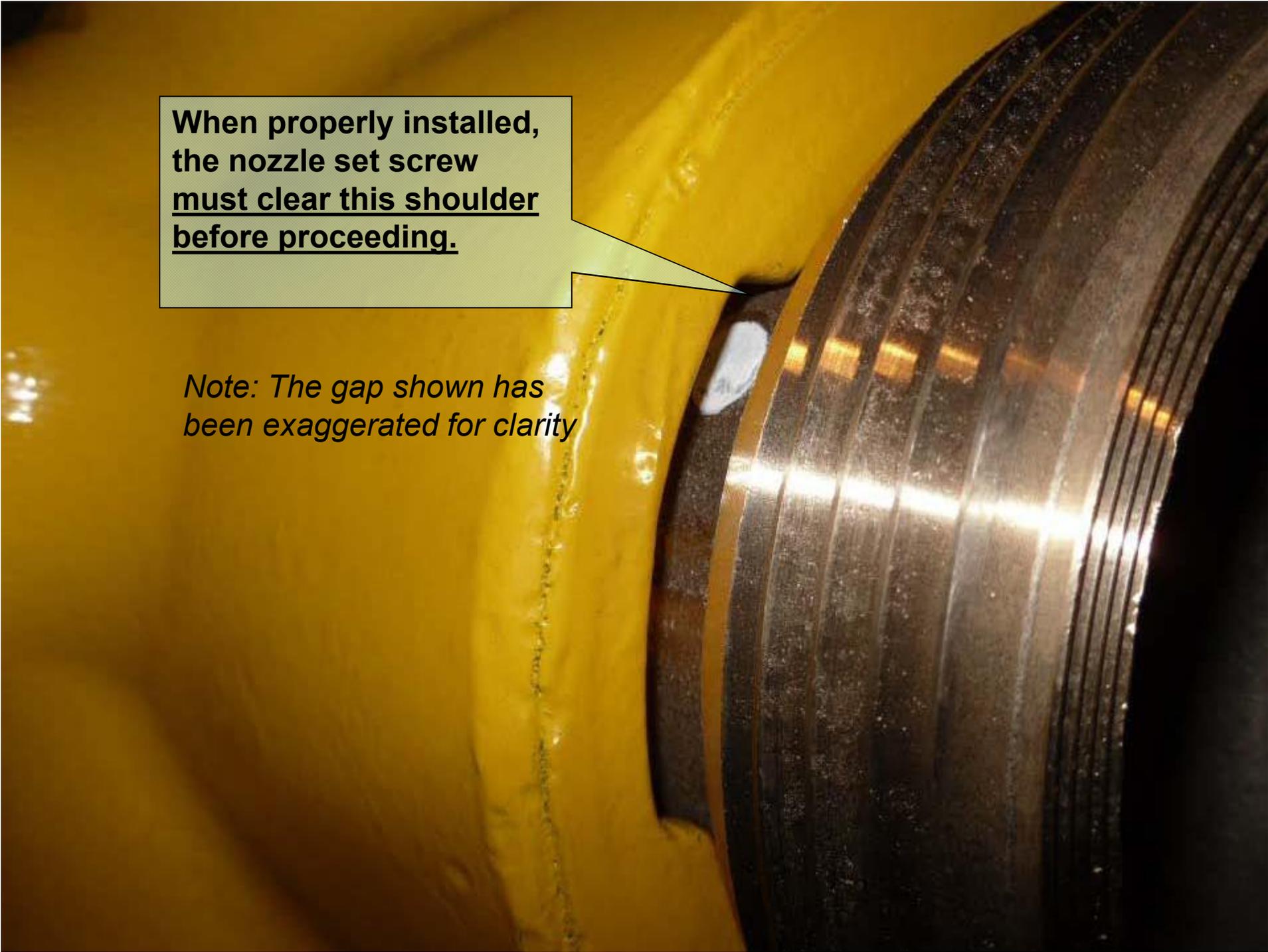


A close-up photograph of a mechanical assembly. On the right, a dark, cylindrical metal component with several longitudinal grooves is visible. To its left, a yellow, curved surface is shown. A small, dark, rectangular feature is visible on the yellow surface, which is pointed to by a thin line from a callout box. The callout box contains text explaining that as the nozzle is rotated, the end of a set screw will begin to show.

Notice as the nozzle is rotated, the end of set screw will begin showing while moving into its final position

**Nozzle shown
fully inserted**



A close-up photograph of a nozzle assembly. On the left is a yellow-painted metal surface. On the right is a dark, polished metal nozzle with several longitudinal grooves. A small gap is visible between the yellow surface and the nozzle. A callout box with a pointer indicates this gap.

**When properly installed,
the nozzle set screw
must clear this shoulder
before proceeding.**

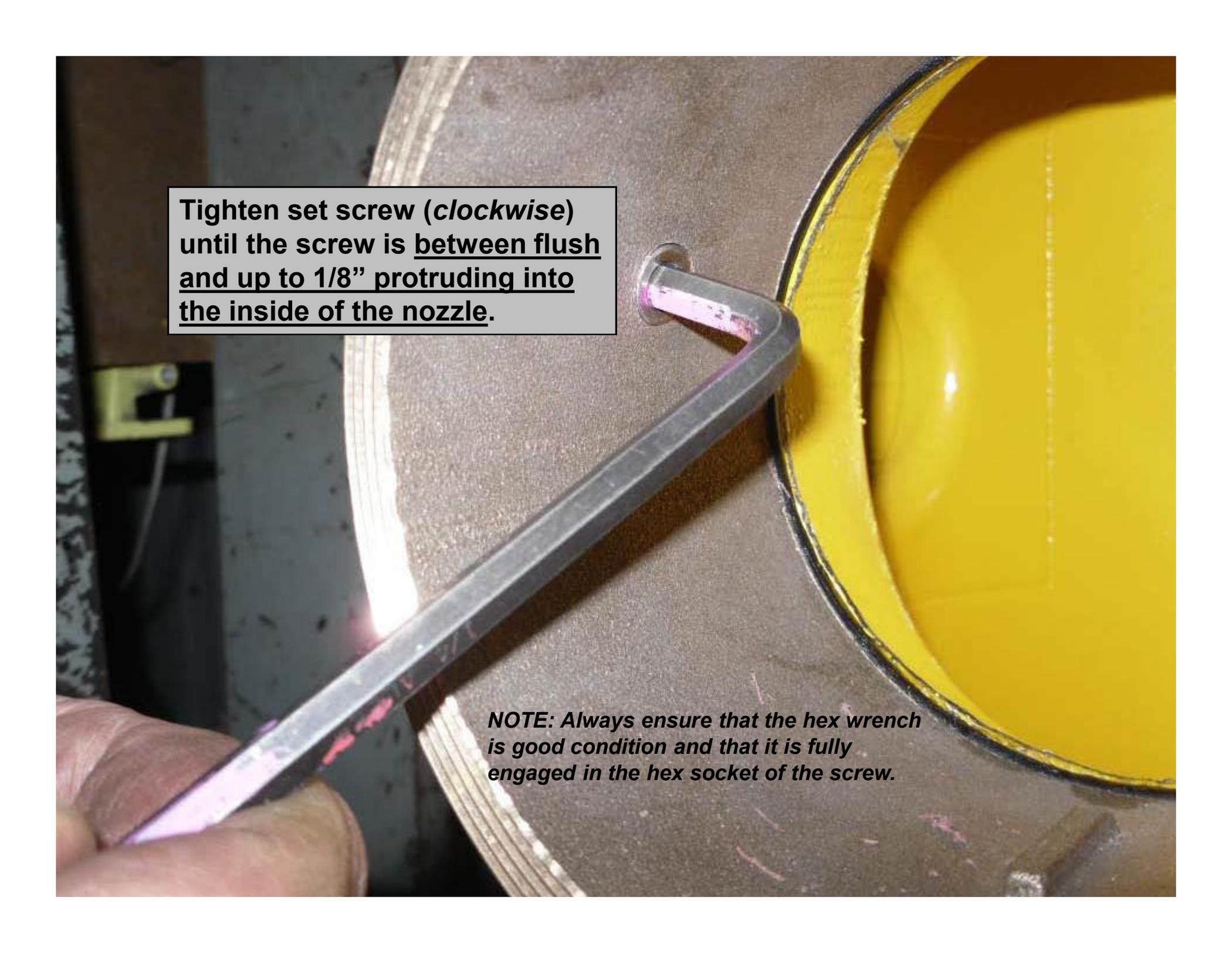
*Note: The gap shown has
been exaggerated for clarity*



**After set screw is clear of
the retention shoulder,
remove nozzle wrench**

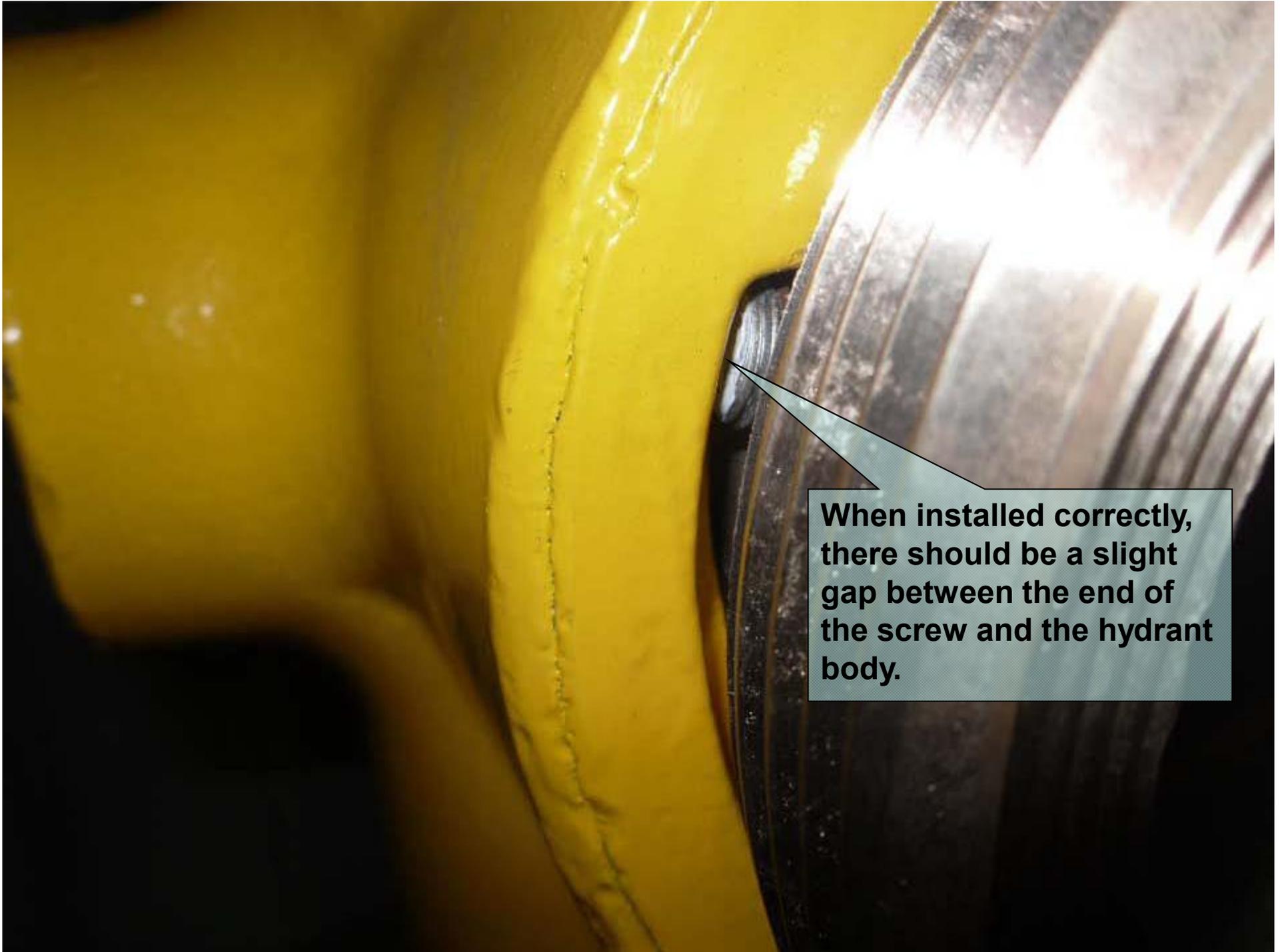
**Fully engage 1/4" hex
wrench**



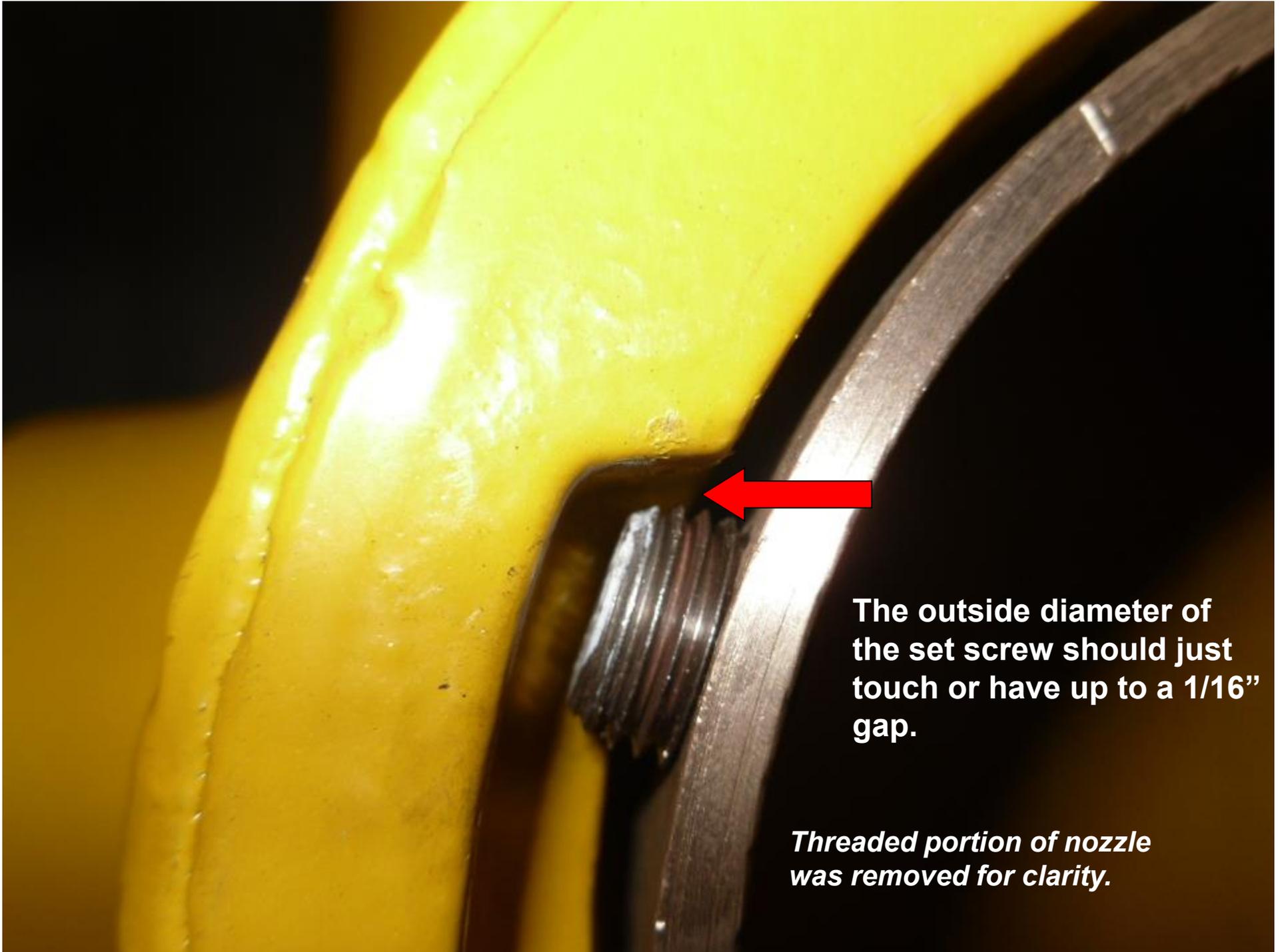


Tighten set screw (*clockwise*) until the screw is between flush and up to 1/8" protruding into the inside of the nozzle.

NOTE: Always ensure that the hex wrench is good condition and that it is fully engaged in the hex socket of the screw.

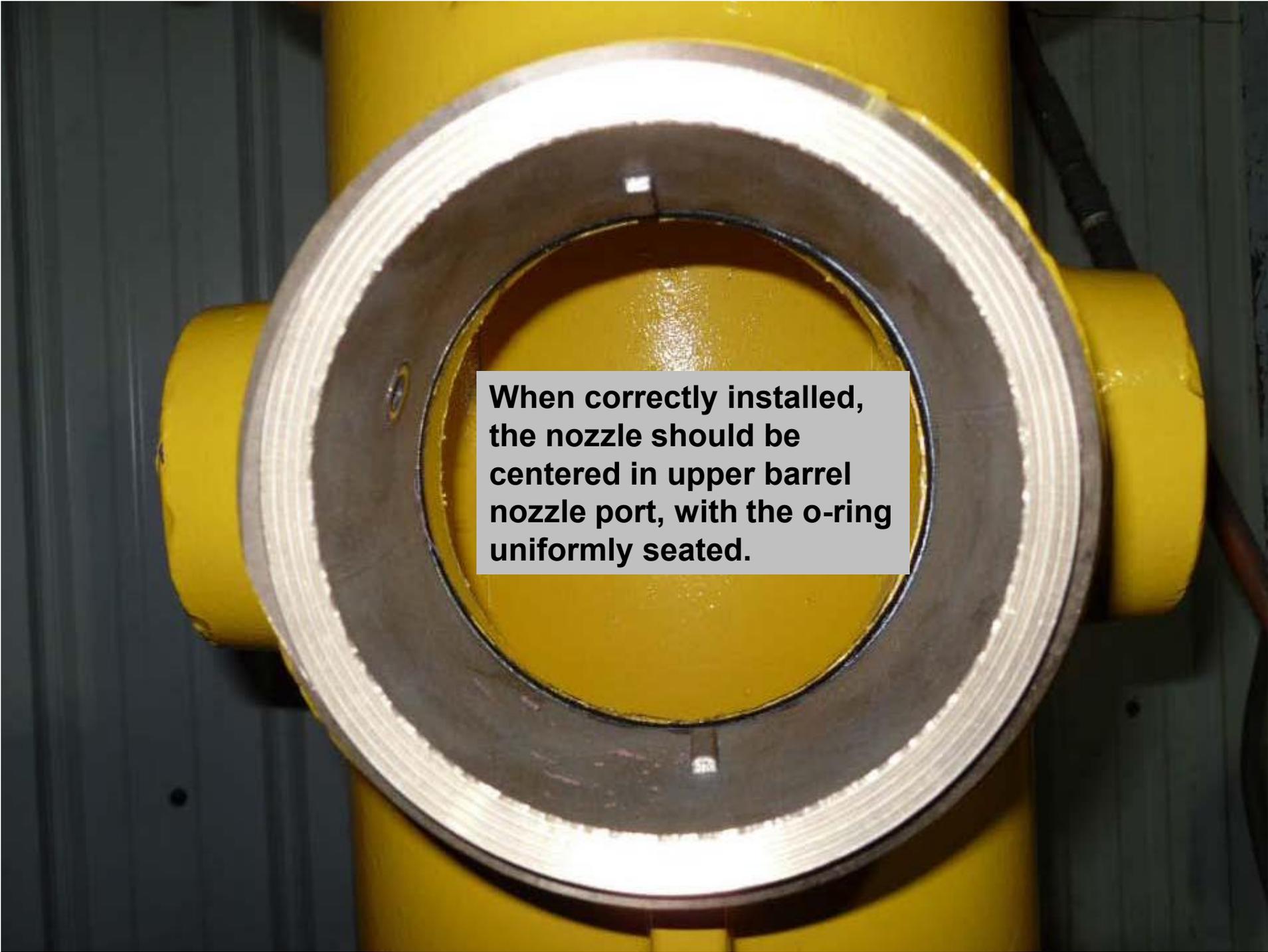


When installed correctly, there should be a slight gap between the end of the screw and the hydrant body.



The outside diameter of the set screw should just touch or have up to a 1/16" gap.

Threaded portion of nozzle was removed for clarity.



When correctly installed, the nozzle should be centered in upper barrel nozzle port, with the o-ring uniformly seated.