

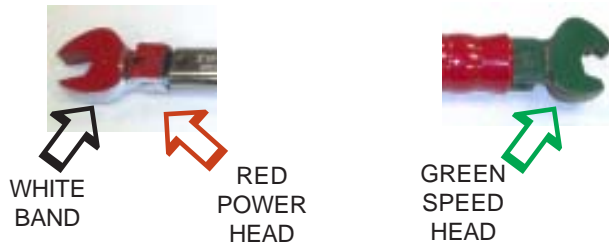


## 22" - 26" Connector Installation Instructions (28" and Larger Connectors on Reverse - 8" - 20" on Separate Sheet)

1. As with any boot-type connector, first check hole to make sure that it is free of dirt and debris. Patch any voids with slurry and allow to dry completely before installing PSX:Direct Drive.



PSX:Direct Drive Installation Wrench  
22" and Larger Diameter



2. Use only the red-handled PSX:Direct Drive wrench. Note that this wrench has a **GREEN** "Speed" head and a **RED** "Power" head. The Speed Head is used to quickly bring the adjuster to being "snug". Do not use the Speed Head to tighten the adjuster more than snug. Damage to the tool and harm to personnel may result.

**- The Power Head is used to fully tighten the adjuster and is the only head that will show torque and provide proper installation.**

**- When using the Power Head, make sure that the White Band is facing to the outside of the manhole. This ensures that the torque feature is used properly.**

3. Place the PSX:Direct Drive Connector in the hole with the adjuster mechanism in position so that it will be at the top of the hole (12 o'clock) in the final installed position of the manhole. Align the Connector so that it is square to the hole.



Speed Head until Snug

4. **Using the Speed Head**, begin to tighten the PSX:Direct Drive Connector by pulling the wrench handle toward the outside of the manhole. The wrench will ratchet back easily at the end of the stroke. The adjuster is "snug" when the connector is held in the hole firmly.



Power Head to Torque

5. **Switch to the Power Head, making sure that the White Band is facing to the outside of the manhole**, and continue to tighten the adjuster until proper torque is reached. The wrench will signal this by "breaking" slightly. If in doubt that torque has been reached, tighten again and wrench should "break" quickly and easily. Installation is now complete.



**IMPORTANT NOTE:** Use care to maintain 90-degree angle between wrench and adjuster. This will prevent damage to tool and assure accurate measurement of torque.

*To remove an installed PSX:Direct Drive Connector, simply reverse wrench position and loosen Connector. Connector may be reused without further adjustment.*

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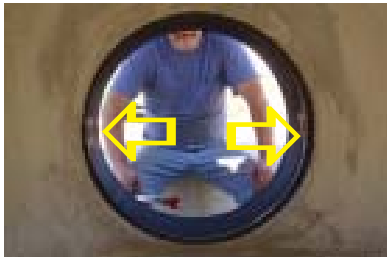
# PSX:DIRECT DRIVE

Effective May 2008

## 28" and Larger Connector Installation Instructions (22" - 26" Connectors on Reverse - 8" - 20" On Separate Sheet)

1. As with any boot-type connector, first check hole to make sure that it is free of dirt and debris. Patch any voids with slurry and allow to dry completely before installing PSX:Direct Drive.

**2. Before proceeding with installation, be sure to read and understand explanation of the installation wrench (#2 on the other side).** The same uses and cautions apply to its use on these connectors.



3. Place 28" -34" PSX:Direct Drive Connector in the hole with dual mechanisms at 3 and 9 o'clock, 36" - 48" triple mechanisms placed at 4, 8, and 12 o'clock positions. Align the Connector so that it is square to the hole.



Speed Head until Snug

4. **Using the Speed Head**, begin to tighten the PSX:Direct Drive Connector by pulling the wrench handle toward the outside of the manhole. The wrench will ratchet back easily at the end of the stroke. The adjuster is "snug" when the connector is held in the hole firmly.



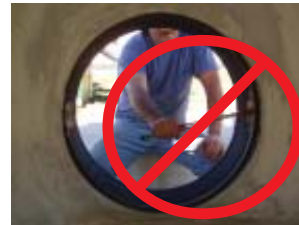
Alternate All Adjustments

5. **Alternate all adjustments:** To obtain proper installation force, it is necessary to tighten all adjusters in an alternating pattern. Tighten five cranks on one adjuster and then switch to the other until either snug (Speed Head) or tight (Power Head). If five cranks cannot be reached, switch to other adjuster.



Power Head to Torque

6. **Switch to the Power Head, making sure that the White Band is facing to the outside of the manhole**, and continue to tighten the adjuster until proper torque is reached. The wrench will signal this by "breaking" slightly. If in doubt that torque has been reached, tighten again and wrench should "break" quickly and easily. Installation is now complete.



**IMPORTANT NOTE:** Use care to maintain 90-degree angle between wrench and adjuster. This will prevent damage to tool and assure accurate measurement of torque.

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