

IDENTIFYING YOUR DRIVE-LINE

Is your PTO Domestic (North American) or Metric?

One of the easiest ways to figure that out is to determine the shape of the telescoping tubing and shafting. As a general rule, if the shafting/tubing is square, rectangular, hex or splined, it will be Domestic (North American). Metric is usually three-pointed, star or lemon shaped.

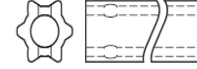
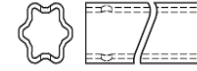
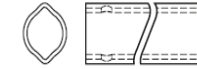
North American Style



Italian Style



German Style



Lemon & Star Profile

PTO Generator shaft is Italian Style Series 3
Painted white to the edge of 4" engaged is (minimum engaged)

The second step is to determine the series of your shaft. The most accurate approach to do this is to obtain two measurements from the cross and bearing kit (u-joint) located on the tractor or drive end of the PTO.

* **Bearing Cap Diameter** – This measurement is the outside diameter of the cap itself, marked (C). This would also be the same as the inside diameter of the hole in the yoke ears. Most cross kits (u-joints) have uniform cap diameters; however, some Constant Velocity (CV) drive-lines have differing cap measurements. Be sure to measure all the caps to correctly identify the series of your PTO.

* **Cross Kit Width** – This is the measurement of the u-joint, end-of-cap to end-of-cap, marked (D). You should also measure the cross both ways as some series are not uniform in their width. The most accurate way to obtain these specs is to remove the cross kit from the yokes. You can get an “estimate” by measuring across the yoke ears and allowing for the indentation of the bearing cap, but to get the most accurate number, the end-of-cap to end-of-cap measurement of a removed u-joint is best.

North American Style

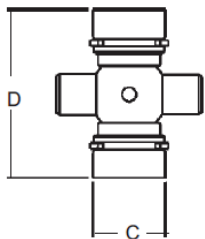
Series	(C) Bearing Diameter	(D) Cap to Cap Overall Length	Snap Ring Type
6	31/32"	2 9/32"	A
12	1 1/16"	2 1/2"	A
14	1 1/8"	2 5/8"	B
14	1 1/8"	3 5/32"	A
35	1 1/4"	3 7/32"	B
35	1 1/4"	3 7/32"	A
44	1 5/16"	4"	A
55	1 17/32"	4 5/16"	B

German Style

Series	(C) Bearing Diameter	(D) Cap to Cap Overall Length	Snap Ring Type
2100 Series	22.0 mm	54.8 mm	B
2200 Series	23.8 mm	61.2 mm	B
I Series	27.0 mm	70.0 mm	B
2300 Series	27.0 mm	74.6 mm	B
220 Series	30.2 mm	92.0 mm	B
2400 Series	32.0 mm	76.0 mm	B
2500 Series	36.0 mm	88.8 mm	B
2600 Series	42.0 mm	104.0 mm	B

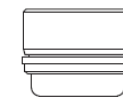
Italian Style

Series	(C) Bearing Diameter	(D) Cap to Cap Overall Length	Snap Ring Type
1 Series	22.0 mm	54.0 mm	B
2 Series	23.8 mm	61.2 mm	B
3 Series	27.0 mm	70.0 mm	B
4 Series	27.0 mm	74.6 mm	B
5 Series	30.2 mm	79.4 mm	B
6 Series	30.2 mm	92.0 mm	B
8 Series	34.9 mm	106.5 mm	B



C - Bearing Diameter
D - Cap to Cap Length

* **Snap Ring Location** – One other determining factor when measuring cross kits is to look for the snap ring location. Some are located in the bushing and these are called internal snap rings. The other style is situated in the yoke ears and these are identified as external snap rings.



A Snap Ring located in the bushing (Internal)

B Snap Ring located in the yoke (External)