

Did You Know?

Advice for the professional
DYK18-107

**Are you looking to
streamline your process for
measuring universal joints?**

We have the solution for you!

Overview

Many times, universal joint part numbers cannot be easily identified, especially by application. MOOG® makes it easy to correctly determine a replacement MOOG universal joint part number.

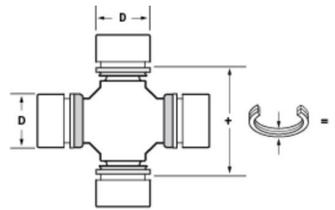
Required:

- The old universal joint that needs to be replaced (so it can be identified by style and measured)
- Calipers (for measuring)
- C-Clamp or Vise
- Access to internet

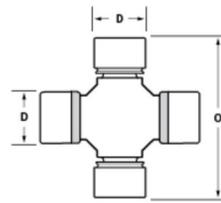


Identification Procedure

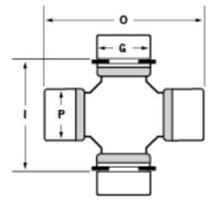
Step 1: Find the style of U-joint.



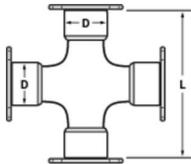
**4 GROOVED
ROUND BEARINGS**



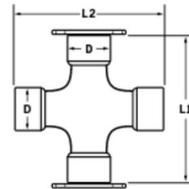
**4 PLAIN
ROUND BEARINGS**



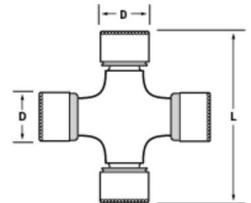
**2 GROOVED &
2 PLAIN ROUND BEARINGS**



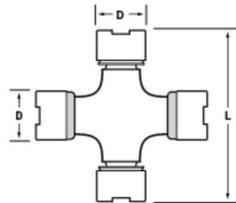
**4 WELDED PLATE TYPE
ROUND BEARINGS**



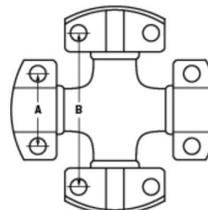
**2 WELDED PLATE &
2 PLAIN ROUND BEARINGS**



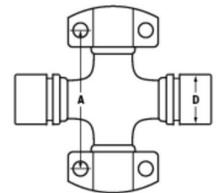
**4 KNURLED
ROUND BEARINGS**



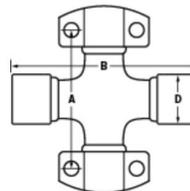
**4 SLOTTED
ROUND BEARINGS**



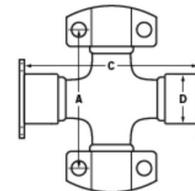
4 WING BEARINGS



**2 WING BEARINGS
2 GROOVED ROUND BEARINGS**



**2 WING BEARINGS &
2 PLAIN ROUND BEARINGS**



**2 WING BEARINGS
2 WELDED ROUND BEARINGS**

For parts lookup, visit: www.fme-cat.com
Tech line: 1-800-325-8886

moogparts.com

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The Problem Solver®

MOOG® Problem Solver® universal joints measuring procedure

Step 2: Measure Bearing Caps.

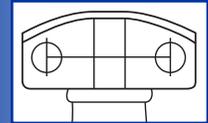
All traditional cap styles that are pressed into the yoke: measure diameter of bearing cap

Wing bearing caps: measure the hole spacing (center to center).

Measure two adjacent caps even if they're the same style in case they are different sizes.



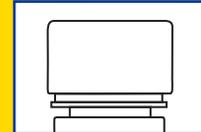
TRADITIONAL



WING STYLE

Step 3: Measure U-joint assembly. Refer to Chart in Step 1 for correct style.

Plain round bearings, Knurled round bearings and Slotted round bearings: remove grease boots, ensure caps are fully seated by applying light pressure using a C-clamp or vise at both ends of cups (tight enough that the u-joint cross body can be turned by hand) and measure the overall length from cap to cap.



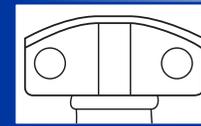
Grooved round bearings: remove grease boots and ensure caps are fully seated by applying light pressure using a C-clamp or a vise at both ends of cups (tight enough that the u-joint cross body can be turned by hand). Measure the inside edge of the lock ring groove on one bearing across the joint to the same point on the opposite bearing. Measure the thickness of the lock rings and add their thickness to the first measurement.



Welded plate bearings: remove grease boots and ensure caps are fully seated by applying light pressure using a C-clamp or a vise at both ends of cups (tight enough that the u-joint cross body can be turned by hand). Measure the distance between the opposite plates. Don't include the plate thickness in the measurement.



Winged bearings: measure the distance between the holes directly across from each other and the pilot diameter. Make sure to take note of the style of the wing as there are many variations.



On all U-joint styles, the measured dimension should be slightly less than the dimensions you'll use to look up the part number. Make sure to take note of the type and location of grease fittings.

Note your measurements:

Step 4: Visit <http://fme-cat.com/MOOGUJointSpecification.aspx>

From there, you can use the measurements to identify which part number(s) will fit your application.

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moogparts.com

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