



U.S. Patent - Other  
Patents Pending

# Heavy Truck Catalog

## 2025

i

# Table of contents

Protector Story	01
3 Great Reasons	02
Protector U-Joint Cover Configurations	03
Protector U-Joint Cover System	04
Driveshaft / Tube-Yoke Part Number Selection	05
Slip-Yoke / Yoke-Shaft Part Number Selection	06
Installation Instructions	07
Measurement References	08-09



It began with Scott Hunter's restoration of a 1970 Bronco. Returning from his first check ride he slid under to make sure everything was ok & there it was.. a stripe of grease above the u-joints on his formerly pristine under body.

As the owner of a truck fleet that was always kept shining, Scott was all too familiar with the mess and clean-up costs of u-joint grease flung across the undercarriage of his Class 8 trucks.

Scott called his brother Ryan, a manufacturer in the automotive aftermarket and said "you have to make something to cover these u-joints". Knowing it was a problem that needed fixing, Ryan got to work on some ideas. Ryan's son Caleb used his appreciable CAD skills to refine and model the ideas. Testing and revisions were made using 3D printed prototypes and Protector U-Joint Covers were introduced to the trucking industry in 2024

# Protector Story

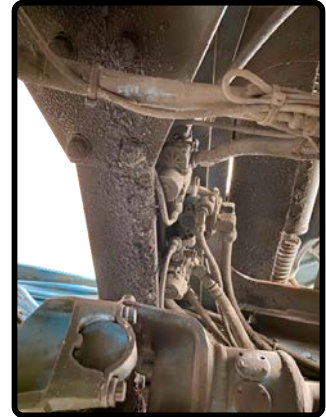


# Cover U-Joints?

## Why

### Less Grease on Trucks

Excessive grease build-up is not only unsightly, United States CFR Part 396.5 prohibits grease leaks, effectively making removal of excess grease a requirement.



### Less Grease on Roadways

Grease that doesn't land on the truck, lands on the roadway beneath, reducing traction and eventually washing into adjacent waterways.



### Less Damage to U-Joints

Exposed U-Joints are subject to Foreign Object Damage (FOD) especially in landfills, quarries and farm fields during harvest.





## 3 Configurations Cover All

03

### U-Joint Positions

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#### Driveshaft / Tube-Yoke

Our most popular covers! Numeric kit numbers correspond to a specific shaft O.D. or select a “Multi-Fit” option with mount pads for all diameters within the range. Bell-end options for “Standard” or “Large” series U-Joints are identified by “DSK” & “DLK” respectively. Example: 4625DSK fits 4.625" diameter shaft with ‘Standard’ series U-Joints such as 1610, 1710, SPL170, 5-280X, SPL250.



#### Slip-Yoke

Slip-Yoke (SYK suffix) cover kits are “Multi-Fit”, these kits include mount pads to fit every slip-yoke diameter common to the industry. 2 Options for “Standard” or “Large” U-joints are identified by the first 2 digits of the part number, 76 & 86 respectively.

Example: 7662SYK fits all popular Slip-Yokes with “Standard” series U-Joints such as 1610, 1710, SPL170, 5-280X, SPL250.



#### Yoke-Shaft

Yoke-Shaft (YSK suffix) cover kits are “Multi-Fit”, these kits include mount pads to fit every yoke-shaft diameter common to the industry. 2 Options for “Standard” or “Large” U-joints are identified by the first 2 digits of the part number, 76 & 86 respectively.

Example: 7625YSK fits all popular Yoke-Shafts with “Standard” series U-Joints such as 1610, 1710, SPL170, 5-280X, SPL250.



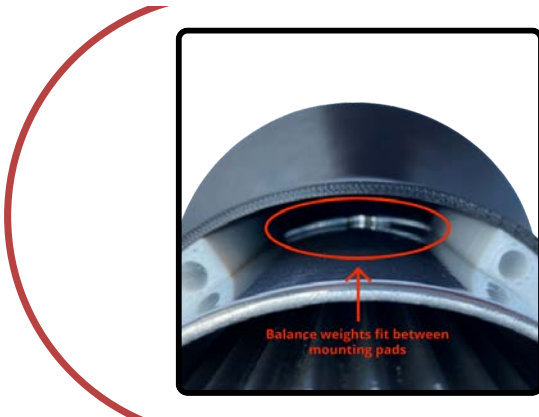
04

# PROTECTOR U-JOINT COVERS™

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The concept is simple..

No drilling, fabrication or dis-assembly is needed, Protector U-Joint Covers mount to the fully assembled driveline. Opposing Hex-Head bolts & Stainless threaded inserts firmly clamp the cover shell against 4 interchangeable elastomeric mount pads engineered to fit and 'grip' the shaft surface.



Covers are clocked so shaft balance weights are between mount pads and positioned lengthwise so the u-joint is fully shrouded. Then, the Captive Zinc-Plated Hex-Head bolts and Stainless-Steel threaded inserts are tightened to secure the cover in place.

Protector U-Joint Covers are comprised of 2 identical halves, so they're **balanced**. Made of injection molded Engineering Grade Nylon, they're strong, **lightweight**, highly impact resistant & have an operating temperature range from -40°F to over 160°F.





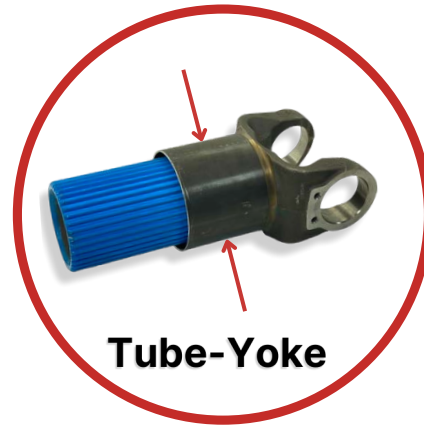
# KIT NUMBERS FOR MOUNTING ON:

05



**Driveshaft**

**OR**



**Tube-Yoke**

Driveshaft Diameter (see arrows)	Yoke / Cross Diameter (see page 08)	Kit Number
Multi-Fit* 4.00" to 4.600"	Under 7"	4045DSK
	Over 7"	4045DLK
4.00" to 4.060"	Under 7"	4000DSK
	Over 7"	4000DLK
4.095" to 4.187"	Under 7"	4095DSK
	Over 7"	4095DLK
4.213" to 4.250"	Under 7"	4213DSK
	Over 7"	4213DLK
4.331" to 4.390"	Under 7"	4331DSK
	Over 7"	4331DLK
4.500" to 4.540"	Under 7"	4500DSK
	Over 7"	4500DLK
4.590" to 4.600"	Under 7"	4590DSK
	Over 7"	4590DLK
4.625"	Under 7"	4625DSK
	Over 7"	4625DLK

Driveshaft Diameter (see arrows)	Yoke / Cross Diameter (see page 08)	Kit Number
Multi-Fit* 4.625" to 5.250"	Under 7"	4652DSK
	Over 7"	4652DLK
4.688"	Under 7"	4688DSK
	Over 7"	4688DLK
4.720" to 4.730"	Under 7"	4720DSK
	Over 7"	4720DLK
4.960" to 5.00"	Under 7"	4960DSK
	Over 7"	4960DLK
5.060" to 5.090"	Under 7"	5060DSK
	Over 7"	5060DLK
5.118" to 5.125"	Under 7"	5118DSK
	Over 7"	5118DLK
5.134" to 5.187"	Under 7"	5134DSK
	Over 7"	5134DLK
5.197" to 5.250"	Under 7"	5197DSK
	Over 7"	5197DLK

\*Multi-Fit kits include mount pads for all diameters in the range.

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06



# KIT NUMBERS FOR MOUNTING ON:



Slip-Yoke Diameter (see arrows)	U-Joint Cross / Yoke Diameter (see page 08)	Kit Number
Multi-Fit* 3.125" to 3.875"	Under 7"	7662SYK
	Over 7"	8662SYK

\*Kits include 7 sets of mount pads for all common slip-yoke diameter variants: 3.125", 3.187", 3.250", 3.500", 3.750", 3.875" & Spicer 3.250" with Taper at yoke (shown above).



Yoke-Shaft Diameter (see arrows)	U-Joint Cross / Yoke Diameter (see page 08)	Kit Number
Multi-Fit* 2.062" to 2.500"	Under 7"	7625YSK
	Over 7"	8625YSK

\*Kits include 4 sets of mount pads for all common yoke-shaft diameter variants: 2.062", 2.125", 2.250", 2.500"



# Instructions

07

- **Step 1.** Clean the mounting area to remove all loose dirt, surface rust and grease residue. Proper cleaning allows the mount pads to firmly grip the driveshaft, slip-yoke or yoke-shaft.
- **Step 2.** Using a straight-edge & marker, draw a straight line from the u-joint grease fitting(s), up the driveshaft long enough to be visible when the cover is mounted. This line will later be used to drill an access hole to service the u-joint (see below).
- **Step 3.** Affix the size-appropriate 4 provided mounting pads over the 2 attachment bars in each of the cover halves. Note that pads are directional and should be snug against the cover.
- **Step 4.** Place the cover halves over the drive line, rotate as needed to accommodate balancing weights. Properly align the 2 halves using the "Post & Hole" locating feature, adjust position so bell end covers the yoke.
- **Step 5.** Using a 4mm hex (Allen) driver, align & tighten the 12ea. M5 x 0.8 captive socket head screws. No need to overtighten (if using a power drill we suggest setting the clutch to slip), simply snug the fasteners as you would on any other lightweight cover.

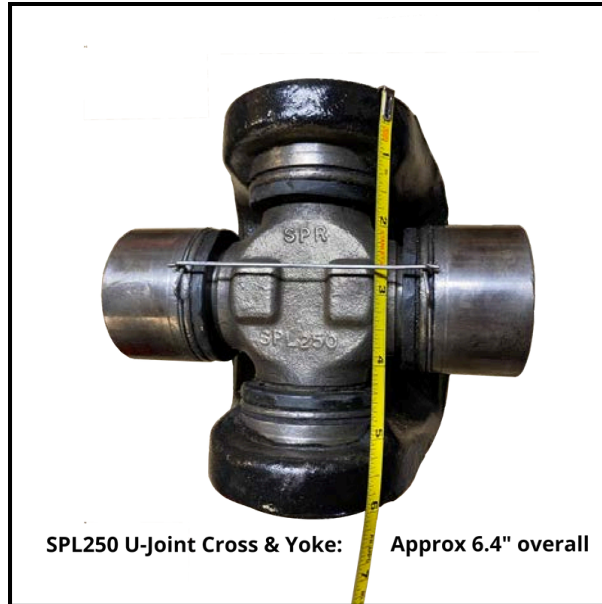
\* When installed properly, the cover will flex but not easily move on the mounting surface. Test for firm mounting by tugging on the open bell. Additional (tighter) mounting pads can be purchased separately if desired.

## To access grease fittings facing driveshaft with cover in-place

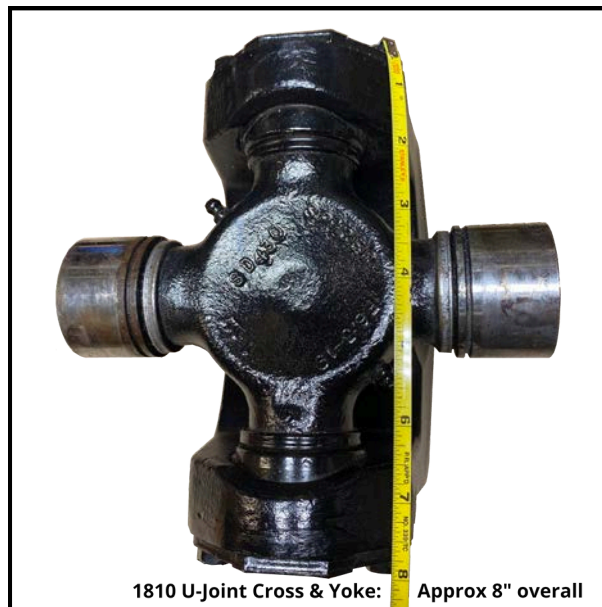
- **Step 1.** Using the mark from Step 2 above, visually align and mark a spot on the cover above and in-line with the zerk, on the sloping section of the cover.
- **Step 2.** Using a 5/8" (15.75mm) diameter drill bit on slow speed, drill an access hole on the marked spot. \*Flat bladed wood bits work best.
- **Step 3.** Place the provided 5/8" diameter plug(s) into the access hole(s) in the cover.

08

## Determining U-Joint / Yoke Size



1610, 1710, 5-280X, SPL160, SPL170, RPL20, SPL250 & SPL350 U-Joints are under 7" cross diameter and fall within the 1710 size series. These u-joints are covered by our Standard bell, designated by "S" in the 2nd letter of "D" part number suffixes.



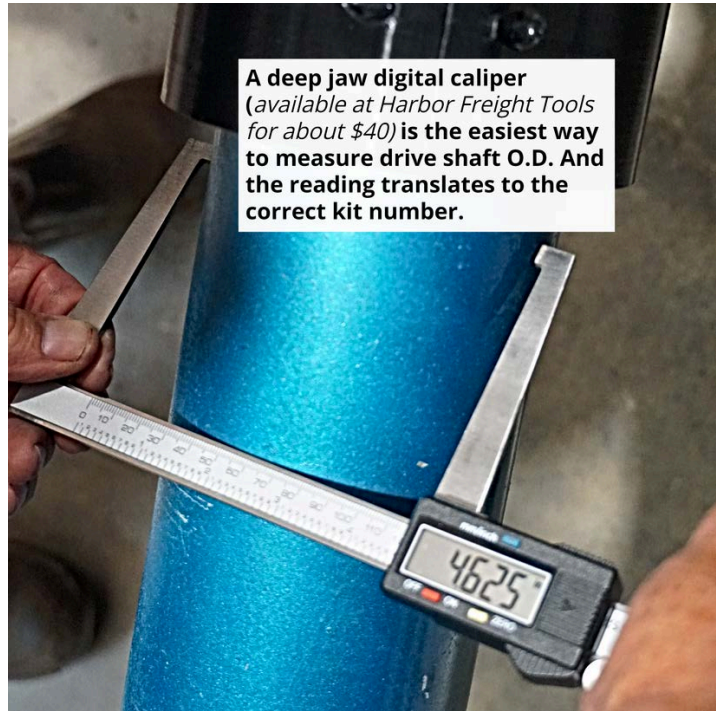
1760, 1810, 1880, 5-281X & RPL25 U-Joints are over 7" cross diameter and fall within the 1810 size series. These u-joints are covered by our Large bell, designated by "L" in the 2nd letter of "D" part number suffixes.

## Measuring Drive Shaft Tube Diameter

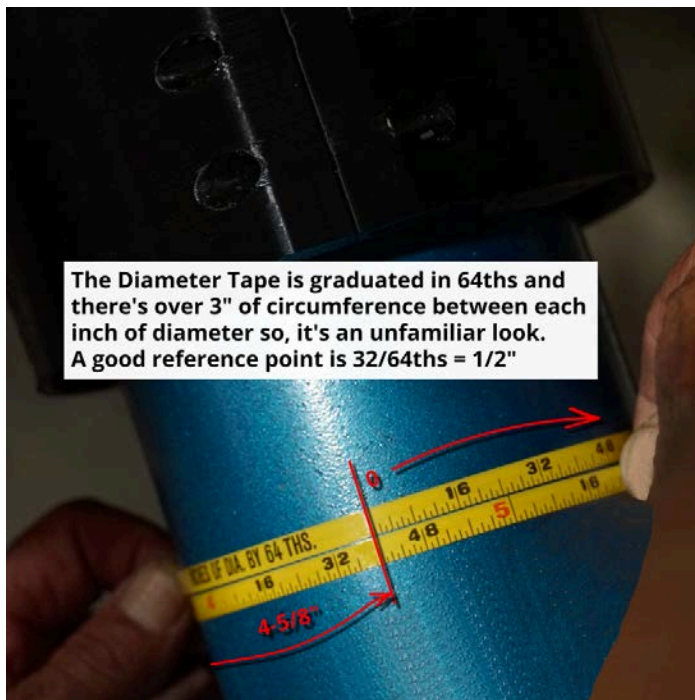
### Deep Jaw Calipers



Deep Jaw Caliper  
(Harbor Freight Tools)



### Diameter Tape Measure



Diameter Tape Measure  
(Stanley p/n 33-115)

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