



Neapco PlateLock™ Universal Joint



Here is Neapco's solution to the SPL170* and SPL250* driveline series universal joints. Neapco's exclusive PlateLock™ design features a dual-plane retainer system that centers the universal joint in the mating driveshaft yoke and eliminates the need for any special centering tools.

The PlateLock™ series universal joints provide benchmark performance at an affordable price with the confidence you have come to expect from Neapco drivetrain products.

* SPLxxx™ is a registered trademark of Dana Corporation.

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Neapco PlateLock™ Universal Joints

Part No. 6-1170 & 6-1250



- 1** Exclusive PlateLock™ System
- 2** Dual-Plane Retainer
- 3** High Performance Sealing System
- 4** Thrust Washer w/360° Lubrication System
- 5** Extra Life Flattened Needle Bearings
- 6** Patch Lock Retaining Bolts
- 7** Lubrication Fitting
- 8** Extra Large Lubrication Reservoir



EXCLUSIVE DUAL-PLANE RETAINER

Neapco's revolutionary dual-plane retainer provides an anti-rotation bearing cup interlock while maintaining the structural integrity and precision lock-up of the universal joint. An additional benefit is the reduced press bearing cups that facilitate easier installation. Both of these features translate to reduced maintenance time and costs.



EASY INSTALLATION

The recessed flat on Neapco's PlateLock™ bearing cups must be positioned in line (parallel) with the retaining bolt holes in the ear of the yoke. This alignment is necessary to properly position the retainer. Neapco's retainer is designed to serve as a self-alignment "tool" when installing the universal joint into the yoke. As with all premium universal joints, the use of an arbor press or vise is the preferred installation method.

Neapco PlateLock™ - Design Features & Benefits

Description	Features	Benefits
High Performance Seal System	2-Piece Seal System Internal seal and dust cap	Reduced maintenance Lower operating cost Extended lubrication cycle
Extra Life flat-end needle bearings	Increased contact and bearing surface	Improved load carrying capacity
Dual Plane Retainer	Exclusive design	Provides precision lock-up Prevents bearing cup rotation
Precise lock-up	Precision ground journal length, bearing cup, retainer interface	Provides zero end play installation reducing driveline NVH (noise, vibration, harshness)



Neapco PlateLock™ Construction



U-joint Part Number 1	Hardware Kit 2	Driveline Series
6-1170	1-0070 3	SPL170
6-1250	1-0070 3	SPL250

PlateLock™ BOLT TORQUE SPECIFICATIONS:

8mm-6 point bolts 35-40Nm / 20-25 ft. lbs.

BEARING STRAP BOLT TORQUE SPECIFICATIONS:

12mm-12 point bolts 135-160Nm / 100-120 ft. lbs.

1 U-joint kit includes attaching hardware.

2 Hardware kit consists of: 4 pcs. 8mm-6 point bolts; 2 Neapco design retainers ; 4 pcs. 12mm-12 point bolts for bearing strap attachment. OE forged bearing straps are re-usable.

3 Neapco attaching hardware is for use with Neapco PlateLock™ construction u-joints only and is **not** interchangeable with OEM retention hardware or u-joint.

Neapco PlateLock™ Part Number Interchange

U-joint Part Number	Freight Liner	Mack	Navistar	Volvo	Driveline Series
6-1170	SP SPL170X*	2104 SPL170X*	2500678C91	3947697	SPL170
6-1250	SP SPL250X*	2104 SPL250X*	2500680C91	3947698	SPL250

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