SPICER®
DRIVETRAIN COMPONENTS
DANA

# DRIVELINE COMPONENTS CATALOG
# SMALL PARTS



**J300P-9**
**DECEMBER 2008**

**Replaces**
**J300-P9 Dated**
**AUGUST, 2004**

Changes from original:
5/11/09 Page 10 - corrected thread dia. and bolt length for 2-70-28X bearing strap assembly

DANA SPICER®
Drivetrain Products

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**Important: See Safety Information in General Information Section (J300P-GI)**

# Small Parts

## Cup Plugs

| Style | Outside Dia. | Height | Dia. of Vent Hole | Material | Spicer® Part Number |
|---|---|---|---|---|---|
| 1 | 1.203 | .265 | .125 | STEEL | 1-68-14• |
| 1 | 1.375 | .250 | NONE | STEEL | 2-68-44• |
| 1 | 1.500 | .440 | NONE | STEEL | 1-68-134 |
| 1 | 1.625 | .250 | NONE | STEEL | 2-68-144 ⅄ |
| 1 | 1.750 | .250 | .125 | STEEL | 2-68-134■ |
| 1 | 1.750 | .380 | NONE | STEEL | 2-68-104• |
| 1 | 1.875 | .250 | NONE | STEEL | 2-68-154 |
| 1 | 1.948 | .440 | .094 | STEEL | 3-68-54• |
| 1 | 1.948 | .620 | NONE | STEEL | 3-68-34• |
| 1 | 1.948 | .625 | .085 | STEEL | 4-68-34• |
| 1 | 2.188 | .688 | NONE | STEEL | 3-68-44 ⅄ |
| 1 | 2.188 | .688 | .094 | STEEL | 5-68-54• |
| 1 | 2.188 | .910 | .095 | STEEL | 5-68-154 ⅄ |
| 1 | 2.688 | .250 | .125 | STEEL | 6-68-44 ⅄ |
| 1 | 2.688 | .250 | .125-27 NPT | STEEL | 6-68-54• |
| 1 | 2.688 | .560 | .125 | STEEL | 6.3-68-54 ⅄ |
| 1 | 2.688 | 1.000 | .090 | STEEL | 6-68-24 ⅄ |
| 1 | 2.688 | 1.090 | .125 | STEEL | 6.3-68-14• |
| 1 | 2.689 | .250 | .125-27 NPT | STEEL | 6-68-28X• |
| | | | *INCLUDES RELIEF VALVE NO. 500167-2* | | |
| 1 | 2.750 | .380 | NONE | STEEL | 8-68-34 ⅄ |
| 1 | 2.875 | .250 | .125 | STEEL | 6-68-34 ⅄ |
| 1 | 3.188 | .810 | .125 | STEEL | 6.5-68-44 ⅄ |
| 1 | 3.320 | .560 | .125 | STEEL | 6.5-68-34• |
| 1 | 3.562 | .750 | NONE | STEEL | 6.5-68-24 ⅄ |
| 1 | 3.794 | .281 | .188 | STEEL | 232755 |
| | | | | *Fits tube w/I.D. of 100mm.* | |
| 1 | 4.202 | .282 | .188 | STEEL | 232700 |
| | | | | *Fits tube w/I.D. of 110mm* | |
| 1 | 4.562 | .340 | .125 | STEEL | 8-68-24 ⅄ |
| 1 | 4.578 | .280 | .188 | STEEL | 232696 |
| | | | | *Fits tube w/I.D. of 120mm* | |
| 2 | 2.188 | .250 | .095 | NYLON | 5-68-144 ⅄ |
| 2 | 2.360 | .725 | .385 | NYLON | 5-68-234 ⅄ |
| 2 | 2.360 | 1.225 | .385 | NYLON | 5-68-78X• |
| | | | *INCLUDES RELIEF VALVE NO. 500167-2* | | |
| 2 | 2.360 | 1.225 | .385 | NYLON | 5-68-184 ⅄ |
| 2 | 2.385 | .725 | .125 | NYLON | 5-68-164 |
| 2 | 2.385 | .725 | .438 | NYLON | 5-68-224 ⅄ |
| 2 | 2.385 | 1.225 | .125 | NYLON | 5-68-174 |
| 2 | 2.385 | 1.695 | .125 | NYLON | 5-68-194 ⅄ |
| 2 | 2.815 | .781 | .125 | NYLON | 6-68-64 |
| 2 | 2.860 | .785 | .385 | NYLON | 6-68-38X• |
| | | | *INCLUDES RELIEF VALVE NO. 500167-2* | | |
| 2 | 2.860 | .785 | .385 | NYLON | 6-68-84 ⅄ |
| 2 | 2.885 | 1.500 | .125 | NYLON | 6-68-74 |
| 2 | 2.885 | 1.500 | .385 | NYLON | 6-68-94 ⅄ |
| 2 | 2.885 | 1.500 | .385 | NYLON | 6-68-48X• |
| | | | *INCLUDES RELIEF VALVE NO. 500167-2* | | |
| 2 | 3.360 | .725 | .125 | NYLON | 6.5-68-64 |
| 2 | 3.360 | 1.535 | .125 | NYLON | 6.5-68-74 |



**Style 1**

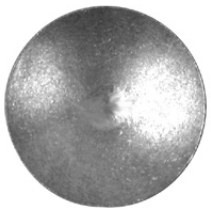


**Style 2**

• Part is discontinued ■ Part is available until supply is exhausted ⅄ Not sold separately

**Important: See Safety Information in General Information Section (J300P-GI)**

## Flat Plugs



| Diameter | Dia. of Vent Hole | Material | Spicer® Part Number |
|---|---|---|---|
| 1.312 | 0.125 | STEEL | 2-68-153⅄ |
| 1.438 | .125-27 NPT | STEEL | 2-68-283 |
| 1.438 | 0.125 | STEEL | 3-68-23 |
| 1.812 | .125-27 NPT | STEEL | 4-68-123⅄ |
| 3.062 | 0.125 | STEEL | 8-68-13 |

## Welch Plugs



| Diameter | Dia. of Vent Hole | Material | Spicer® Part Number |
|---|---|---|---|
| 1.156 | NONE | STEEL | 232415⅄ |
| 1.250 | NONE | STEEL | 500166-19• |
| 1.312 | NONE | STEEL | 500166-20 |
| 1.312 | 0.125 | STEEL | 2-68-23 |
| 1.375 | 0.090 | STEEL | 2-68-253 |
| 1.438 | .125-27 NPT | STEEL | 2-68-28X■ |
| | *INCLUDES RELIEF VALVE NO. 500167-2* | | |
| 1.500 | NONE | STEEL | 500166-23 |
| | *INCLUDES RELIEF VALVE NO. 500167-2* | | |
| 1.562 | 0.125 | STEEL | 3-68-33 |
| 1.688 | NONE | STEEL | 3-68-183 |
| 1.688 | 0.125 | STEEL | 3-68-163 |
| 1.812 | .125-27 NPT | STEEL | 4-68-38X⅄ |
| | *INCLUDES RELIEF VALVE NO. 500167-2* | | |
| 1.812 | 0.125 | STEEL | 4-68-143 |
| 2.000 | NONE | STEEL | 500166-31⅄ |
| 2.062 | 0.125 | STEEL | 4-68-43 |
| 2.562 | .125-27 NPT | STEEL | 6-68-63⅄ |
| 2.562 | 0.125 | STEEL | 6.5-68-13 |
| 2.750 | 0.125 | STEEL | 5-68-33 |

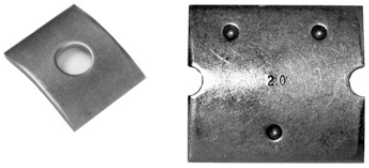
• Part is discontinued ■ Part is available until supply is exhausted ⅄ Not sold separately



**Important: See Safety Information in General Information Section (J300P-GI)**

## Balance Weights

| Weight (oz.) | Style | Spicer® Part Number |
|---|---|---|
| .06 | 5 | 98-1492-2 |
| .13 | 1 | 231817-9 |
| | *Stainless steel weight for aluminum shafts* | |
| .15 | 2 | 230701-1 |
| .19 | 1 | 231817-1 |
| | *Stainless steel weight for aluminum shafts* | |
| .27 | 2 | 98-1562-2 |
| .27 | 1 | 231817-2 |
| | *Stainless steel weight for aluminum shafts* | |
| .36 | 1 | 231817-3• |
| | *Stainless steel weight for aluminum shafts* | |
| .43 | 1 | 231546-1 |
| .45 | 2 | 98-1562-3 |
| .50 | 6 | 232698-1 |
| | *232698-1 was replaced by 5006852-6; (SPL)* | |
| .56 | 1 | 231817-4 |
| | *Stainless steel weight for aluminum shafts* | |
| .62 | 1 | 231546-2 |
| .66 | 4 | 231536-2 |
| .70 | 5 | 232698-3 |
| | *232698-3 was replaced by 5006852-8; (SPL)* | |
| .75 | 1 | 231817-5 |
| | *Stainless steel weight for aluminum shafts* | |
| .96 | 1 | 231817-6 |
| | *Stainless steel weight for aluminum shafts* | |
| .96 | 1 | 231817-7 ⅄ |
| | *Stainless steel weight for aluminum shafts* | |
| .98 | 1 | 231546-3 |
| 1.00 | 1 | 232698-4 |
| | *232698-4 was replaced by 5006852-5; (SPL)* | |
| 1.05 | 4 | 231536-3 |
| 1.20 | 1 | 232698-5 |
| | *232698-5 was replaced by 5006852-1; (SPL)* | |
| 1.70 | 1 | 232698-7 |
| | | *(SPL)* |
| 1.78 | 5 | 98-1492-6 |
| | *98-1492-6 was replaced by 5006852-3* | |
| 2.00 | 1 | 232698-8 |
| | *232698-8 was replaced by 5006852-3; (SPL)* | |




**Style 1**



**Style 2**



**Style 3 (Bent)**



**Style 4**



**Style 5 (Curved)**




**Style 6**

• Part is discontinued ■ Part is available until supply is exhausted ⅄ Not sold separately

**Important: See Safety Information in General Information Section (J300P-GI)**

## Bolts



| Thread Size | Head: Hex/12pt Allen | Hex. | Self Locking (Y or N) | Grade | Length Under Head | Overall Thread Length | Spicer® Part Number |
|---|---|---|---|---|---|---|---|
| .250-28 | HEX | .312 | Y | 2 | .625 | .625 | 231401 |
| .312-24 | HEX | .312 | N | N/A | .750 | .750 | 500666-14• |
| .312-24 | HEX | .312 | Y | 2 | .750 | .750 | 231142 |
| .312-24 | HEX | .438 | N | 7 | 1.438 | .875 | 230914 |
| .312-24 | HEX | .500 | N | 8 | .562 | .562 | 5-73-809• |
| .312-24 | HEX | .500 | N | 8 | 1.250 | 1.000 | 5-73-220• |
| .312-24 | HEX | .500 | N | 8 | 1.750 | 1.000 | 5-73-1228 |
| .312-24 | HEX | .500 | Y | 8 | .565 | .565 | 5-73-109 |
| .312-24 | HEX | .500 | Y | 8 | .500 | .500 | 5-73-709 |
| | | | | | | *SERRATED HEAD BOLT* | |
| .375-24 | 12 pt | — | Y | N/A | .750 | .750 | 6-73-412 |
| | | | | | | *BEARING STRAP BOLT* | |
| .375-24 | HEX | .562 | N | 8 | 1.250 | .750 | 7-73-620• |
| | | | | | | *BRAKE FLANGE BOLT* | |
| .375-24 | HEX | .562 | N | 8 | 1.562 | 1.000 | 6-73-725 |
| | | | | | | *BRAKE FLANGE BOLT* | |
| .375-24 | HEX | .562 | Y | 8 | .562 | .562 | 6-73-209 |
| | | | | | | *SERRATED HEAD BOLT* | |
| .375-24 | HEX | .562 | Y | 8 | 1.000 | .750 | 6-73-527 |
| .375-24 | 12 pt | .562 | Y | N/A | 1.000 | .750 | 6-73-612 |
| | | | | | | *BEARING STRAP BOLT* | |
| .375-24 | HEX | .562 | Y | 8 | 1.688 | .750 | 6-73-427• |
| .375-24 | HEX | .562 | Y | 8 | .625 | .500 | 6-73-109 |
| .375-24 | HEX | .625 | Y | 8 | .688 | .500 | 6-73-311 |
| .438-20 | HEX | .625 | N | 8 | 1.938 | .875 | 7-73-528• |
| .438-20 | HEX | .625 | Y | N/A | .875 | .875 | 7-73-315 |
| | | | | | | *SERRATED HEAD BOLT* | |
| .500-20 | 12 pt | .750 | Y | N/A | 1.000 | 1.000 | 8-73-316 |
| .500-20 | HEX | .750 | N | 8 | 1.875 | .688 | 8-73-130 |
| .500-20 | HEX | .750 | N | 8 | 4.375 | 1.000 | 8-73-170• |
| .500-20 | HEX | .750 | N | 8 | 1.500 | .875 | 8-73-640• |
| .500-20 | HEX | .750 | Y | 8 | 1.738 | .750 | 8-73-123 |
| .500-20 | HEX | .750 | N | 8 | 2.500 | 1.375 | 8-73-340 |
| M6-1.00 | HEX | .394 | N | 10.9 | .630 | .630 | 6-73-116M• |
| M8-1.00 | HEX | .312 | Y | N/A | .551 | .551 | 8-73-114M |
| M8-1.00 | HEX | .500 | N | N/A | .551 | .551 | 5-73-509M• |
| M8-1.00 | HEX | .312 | Y | N/A | .750 | .750 | 231402 |
| M8-1.25 | 12 pt | .236 | Y | 10.9 | 1.948 | 1.948 | 8-73-250M |
| M8-1.25 | HEX | .312 | Y | 10.9 | 1.950 | 1.950 | 8-73-150M• |
| M10-1.25 | HEX | .714 | Y | N/A | .585 | .585 | 10-73-114M |
| | | | | | | *SERRATED HEAD BOLT* | |
| M12-1.25 | 12 pt | — | Y | 10.9 | .984 | .984 | 12-73-125M |
| | | | | | | *12-73-125M was replaced by 5007417* | |
| M12-1.75 | HEX | .708 | N | N/A | 3.150 | 1.181 | 12-73-180M• |
| M12-1.25 | 12 pt | — | Y | N/A | .984 | .984 | 5007417 |

• Part is discontinued ■ Part is available until supply is exhausted ⅄ Not sold separately



**Important: See Safety Information in General Information Section (J300P-GI)**

# Small Parts

## Nuts



| Self Lock (Y or N) | Thread Size | Hex | Thickness | Spicer® Part Number |
|---|---|---|---|---|
| N | .312-24 | .500 | .266 | 231421-2 |
| N | .375-24 | .562 | .328 | 231421-3 |
| N | .438-20 | .688 | .375 | 231421-4 |
| N | .500-20 | .750 | .438 | 231421-5■ |
| N | M12 X 1.75 | .701 | .590 | 12-74-21M• |
| N | .625-18 | .938 | .547 | 231421-7 |
| Y | .625-18 | .938 | .556 | 10-74-101 |
| Y | 1.000-20 | 1.500 | .500 | 16-74-11 *USES COTTER PIN* |

## Bolts, Lockwashers and Nuts for Companion Flange/ Brake Disc/ Flange Yoke Connections



| Series | Bolt Data | | | Application Data | | Brake Disc Thick. | Bolt Part Number | Uses L'Washer Number | Uses Nut Number | Bolt Torque (Lb. Ft.) |
|---|---|---|---|---|---|---|---|---|---|---|
| | Thread Size | Under Head Length | Shoulder Length | Comp. Flange Thick. | Flange Yoke Thickness | | | | | |
| 1000/1100 | .312-24 | .875 | .406 | .250 | .203 | — | 5-73-414• | 500357-10 | 231421-2 | 22-25 |
| 1310 | .375-24 | 1.000 | .500 | .280 | .255 | — | 6-73-316 | 500357-11 | 231421-3 | 40-48 |
| 1330/1350/1410 | .438-20 | 1.188 | .626 | .312 | .322 | — | 7-73-219 | 500357-12 | 231421-4 | 63-75 |
| 1330/1350/1410 | .438-20 | 1.625 | 1.000 | .312 | .322 | .375 | 7-73-126 | 500357-12 | 231421-4 | 63-75 |
| 1480/1550 | .500-20 | 1.375 | .687 | .375 | .375,.410 | — | 8-73-122 | 500357-13 | 231421-5 | 97-116 |
| 1480/1550 | .500-20 | 1.750 | 1.062 | .312 | .375,.410 | .375 | 8-73-228• | 500357-13 | 231421-5 | 97-116 |
| 1610 | .375-24 | 1.562 | .843 | .312 | .375 | .375 | 6-73-325 | 500357-11 | 231421-3 | 40-48 |
| 1610 | .375-24 | 1.188 | .626 | .312 | .375 | — | 6-73-1219 | 500357-11 | 231421-3 | 40-48 |
| 1710 | .375-24 | 1.688 | 1.125 | .375 | .375 | .375 | 6-73-1227• | 500357-11 | 231421-3 | 40-48 |
| SPL100/1610/ SPL140/1710 | .375-24 | 1.250 | .750 | .375 | .375 | — | 6-73-220 | 500357-11 | 231421-3 | 40-48 |
| SPL140/SPL170/ SPL250/1760 | .438-20 | 1.375 | .750 | .375 | .375 | — | 7-73-122 | 500357-12 | 231421-4 | 63-75 |
| 1760/1810 | .437-20 | 1.750 | 1.062 | .375 | .375,.438 | .375 | 7-73-228 | 500357-12 | 231421-4 | 63-75 |
| 1810/1880/1900 | .625-18 | 1.938 | 1.062 | .625 | .562 | — | 10-73-131 | 232233 | 231421-7 | 194-232 |

## Shaft Nuts

| Thread size | Nut Finish | Part Number | Torque to (lb. ft.) |
|---|---|---|---|
| .625-18 | CADMIUM | 231781 | 100-120 |
| M30 X 2 | CADMIUM | 250-74-11 | 475-525 |
| 1.000-20 | BLACK | 16-74-101 | 400-450 |
| 1.000-20 | SILVER | 16-74-101 | 275-325 |
| 1.250-18 | BLACK | 231502 | 700-750 *Flange Diameter is 2.125"* |
| 1.250-18 | BLACK | 20-74-91 | 475-525 *Flange Diameter is 2.500"* |
| 1.250-18 | SILVER | 231502 | 475-525 |
| 1.500-18 | BLACK | 24-74-21 | 1000-1500 *Castle Nut* |



• Part is discontinued ■ Part is available until supply is exhausted ⅄ Not sold separately

**Important: See Safety Information in General Information Section (J300P-GI)**

## Boot Kits



| Lg. Dia. Boot | Sm. Dia. Boot | Boot Length | Boot Part Number | Lg. Clamp Part Number | Sm. Clamp Part Number | Spicer® Part Number |
|---|---|---|---|---|---|---|
| 1.606 | 1.060 | 4.000 | 232843 | 231438-28 | 231438-6 | 212112X |
| 1.670 | 1.140 | 4.070 | 232485 | 231438-4 | 231438-6 | 211916X |
| 1.670 | 1.140 | 5.030 | 232557 | 231438-4 | 231438-6 | 211932X |
| 1.670 | 1.230 | 4.070 | 232681 | 231438-4 | 231438-6 | 212010X |
| 1.670 | 1.230 | 4.070 | 232681 | 231438-4 | 231438-6 | 211503X<br>*Originally used boot# 231841, which is .760" longer* |
| 2.030 | 1.360 | 4.140 | 232655 | 231438-27 | 231438-26 | 212007X |
| 2.323 | 2.185 | 7.559 | 232818 | 00-11-89-2 | 00-11-89-1 | 212094X |
| 2.500 | 1.500 | 5.340 | 231561 | 231438-2 | 231438-1 | 211344X |
| 2.500 | 1.660 | 5.340 | 231597 | 231438-2 | 231438-4 | 211462X |
| 2.768 | 2.768 | 10.331 | 70-13-19 | 231438-24 | 231438-24 | 212146X<br>*SPL100* |
| 3.787 | 3.787 | 7.952 | 232756 | 232757 | 232757 | 212059X<br>*SPL140* |
| 4.141 | 4.141 | 5.710 | 232701-4 | 232702 | 232702 | 211987-2X<br>*SPL170* |
| 4.141 | 4.141 | 11.220 | 232701-2 | 232702 | 232702 | 211987X<br>*SPL170/250* |
| 4.508 | 4.508 | 7.953 | 232695-1 | 232493 | 232493 | 211959X<br>*SPL170/250* |

## Lube Fittings





**Style 1**





**Style 2**



**Style 3**

| Style | Thread Size | Hex | Overall Length | Spicer® Part Number |
|---|---|---|---|---|
| 1 | .125-27NPT | .438 | .660 | 500168-2 |
| 1 | .250-28 | .312 | .540 | 500174-1 |
| 1 | .250-28 | .312 | .680 | 500174-2• |
| 2 | .250-28 | .312 | .406 | 231209<br>*Installs w/screwdriver* |
| 2 | #10-32 | — | .344 | 230977<br>*Installs w/screwdriver* |
| 3 | .125-27NPTF | .500 | .843 | 232830<br>*Use pliers to tighten* |

• Part is discontinued ■ Part is available until supply is exhausted ⅄ Not sold separately



**Important: See Safety Information in General Information Section (J300P-GI)**

# Small Parts

## Snap Rings

| Style | Fits Brg. Dia. | Thick (+or-0.0005) | Color | Spicer® Part Number |
|---|---|---|---|---|
| 1 | .938 | .058 | NONE | 1-7-29 |
| 1 | 1.062 | .055 | GREEN | 2-7-469 |
| 1 | 1.062 | .057 | PURPLE | 2-7-329 |
| 1 | 1.062 | .058 | NONE | 2-7-309■ |
| 1 | 1.062 | .058 | NONE | 2-7-4 |
| 1 | 1.062 | .059 | COATED | 2-7-359• |
| | | | *Coated for use in aluminum yokes* | |
| 1 | 1.062 | .059 | COPPER | 2-7-29 |
| 1 | 1.062 | .060 | WHITE | 2-7-49 |
| 1 | 1.062 | .063 | YELLOW | 2-7-449 |
| 1 | 1.062 | .065 | BLUE | 2-7-459 |
| 1 | 1.188 | .058 | NONE | 3-7-39 |
| 1 | 1.188 | .059 | COPPER | 3-7-4 |
| 1 | 1.188 | .061 | WHITE | 3-7-49 |
| 1 | 1.375 | .058 | NONE | 3-7-89 |
| 1 | 1.375 | .058 | WHITE | 55-7-19-2 |
| 1 | 1.375 | .060 | COPPER | 3-7-109 |
| 1 | 1.375 | .062 | YELLOW | 4-7-69 |
| 2 | .938 | .058 | COPPER | 10-7-29 |
| 2 | 1.000 | .093 | NONE | 2-7-79• |
| 2 | 1.062 | .058 | NONE | 2-7-429• |
| | | | *XTRA THICK-USED IN MERC KIT 5-589X* | |
| 2 | 1.062 | .058 | NONE | 2-7-99 |
| | | | *SPEC FOR USE ON WHEEL JT.* | |
| 2 | 1.062 | .060 | NONE | 2-7-299 |
| 2 | 1.102 | .060 | COPPER | 2-7-369 |
| 2 | 1.125 | .058 | NONE | 2-7-529 |
| 2 | 1.188 | .058 | NONE | 3-7-99 |
| 2 | 1.375 | .060 | NONE | 3-7-129 |

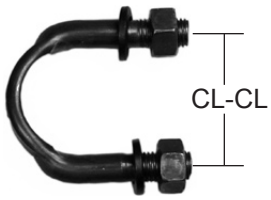


**Style 1**



**Style 2**

• Part is discontinued ■ Part is available until supply is exhausted ⅄ Not sold separately




## U-bolt Assemblies

**2 U-bolts and 4 Nuts each**

| Joint Series | Thread Dia. | CL-CL | Fits Bearing Cap Dia. | U-bolt No. | L'washer No. | Nut No. | Nut Torque (Lb. Ft.) | Spicer® Part Number |
|---|---|---|---|---|---|---|---|---|
| 1210/1310/1330 | .312-24 | 1.416 | 1.062 | 2-94-29 | 500357-10 | 231421-2 | 14-17 | 2-94-28X |
| 1330 SPECIAL/3R | .312-18 | 1.590 | 1.125 | 2-94-69 | 500356-10 | 231421-2 | 17-24 | 2-94-58X |
| 1350/1410 | .375-24 | 1.666 | 1.188 | 3-94-19 | 500357-11 | 231421-3 | 20-24 | 3-94-18X |
| 1480/1550 | .438-20 | 1.914 | 1.375 | 3-94-29 | 500357-12 | 231421-4 | 32-37 | 3-94-28X |




## Bearing Strap Assemblies

2 straps and 4 bolts each

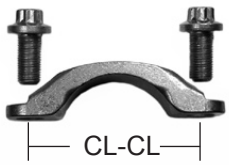
| Joint Series | Fits Brg. Cap Dia. | Thread Dia. | Bolt Length | Strap No. | Bolt No. | CL-CL | Bolt Torque (Lb. Ft.) | Spicer® Part Number |
|---|---|---|---|---|---|---|---|---|
| SPL90/100 | 1.625 | .375-24 | .750 | 90-70-19 | 6-73-412 | 2.312 | 45-60 | 90-70-28X |
| 1210/1310/1330 | 1.062 | .250-28 | .625 | 2-70-59 | 231401 | 1.587 | 1318 | 2-70-18X |
| 1330 | 1.062 | .312-24 | 1.440 | 2-70-39 | 230914 | 1.587 | 13-18 | 2-70-28X |
| 1350 | 1.188 | M8 X 1.0 | .750 | 3-70-89 | 231402 | 1.806 | 13-18 | 3-70-48X |
| 1350/1410 | 1.188 | .312-24 | .750 | 3-70-89 | 231142 | 1.806 | 25-30 | 3-70-28X |
| 1480/1550 | 1.375 | .375-24 | .750 | 3-70-99 | 6-73-412 | 2.130 | 55-60 | 3-70-38X |
| 1610 | 1.875 | .375-24 | .750 | 5-70-119 | 6-73-412 | 2.500 | 45-60 | 5-70-28X |
| 1710/1760/1810 | 1.938 | .500-20 | 1.000 | 6.5-70-89 | 8-73-316 | 2.806 | 115-135 | 6.5-70-18X |
| 3R | 1.125 | — | — | N.S.S. | N.S.S. | — | 30-35 | 2-70-48X |
| 7260 | 1.062 | .250-28 | .625 | 231079 | 231401 | 1.500 | 13-18 | 2-70-38X |
| | | | | | | *Uses 500357-9 Lockwasher* | | |

• Part is discontinued ■ Part is available until supply is exhausted ⅄ Not sold separately

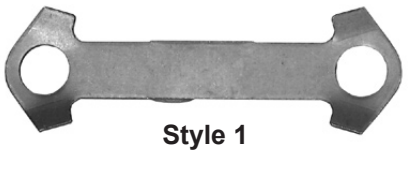


**Important: See Safety Information in General Information Section (J300P-GI)**

## Cap and Bolt Assemblies
## Bearing Retainer Assemblies
**2 caps or 2 retainers and 4 bolts each**




| Joint Series | Thread Dia. | CL-CL | Bolt Torque (Lb. Ft.) | Bolt Length | Strap No. | Bolt No. | Part Number |
|---|---|---|---|---|---|---|---|
| SPL140 | M12 X 1.25 6G | 3.000 | 115-135 | .984 | 140-70-19 | 5007417 | 140-70-18X |
| SPL170 | M12 X 1.25 6G | 3.228 | 115-135 | .984 | 170-70-19 | 5007417 | 170-70-18X |
| SPL250 | M12 X 1.25 6G | 3.444 | 115-135 | .984 | 250-70-19 | 5007417 | 250-70-18X |
| 1650 | .500-20 | 2.375 | 77-103 | 1.438 | 5-70-89 | 8-73-123 | 5-70-18X |
| 1950 | .750-16 | 4.250 | 271-362 | 2.750 | 9-70-39 | 12-73-144 | 9-70-18X• |



Style 1





Style 2

## 1610-1880 Series
## SPL140/170/250 Series
## Bearing Cap Hardware/Spring Tab

| Lock Strap Style | Th'd size | Length Under Head | Fits Series | Bolt Part Number | Used w/ Lock Strap Number |
|---|---|---|---|---|---|
| 1 | .312-24 | .562 | 1610 | 5-73-109 (2) | 98-741 |
| — | .375-24 | .562 | 1710/1760/1810 | 6-73-209 (3) | — |
| 1 | .375-24 | .610 | 1710/1760/1810 | 6-73-109 (2) | 230323 |
| — | .375-24 | .750 | 1610 | 6-73-412 (2) | — |
| — | .438-20 | .875 | 1880 | 7-73-315 (2) | — |
| — | .500-20 | 2.500 | WING BEARING | 8-73-340 (1) | — |
| 2 | M8 X 1.00-6G | .551 | SPL140/170/250 | 8-73-114M (2) | 232584 (SPL) |

**(1) Used with wing bearing type bearing caps**
**(2) Self locking bolts with lock patch**
**(3) Self locking bolts with serrated heads**

**Note**: Spicer does not recommend re-use of self locking bolts and does not recommend using serrated head, self locking bolts with lockstraps.

## 1/2 Round Lockwires



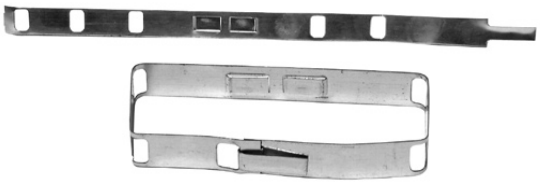
| Series | Part Number |
|---|---|
| SPL140 | 231351-4■ |
| SPL170 | 232691• |
| SPL250 | 232692• |
| 1610 | 231293 |
| 1710 | 231351-1 |
| 1760 | 231351-3 |
| 1810 | 231351-2 |

## Full Round Lock Straps/ SPL Lock Straps



| CL-CL Bolt Holes | Bolt Size | Series | Part Number |
|---|---|---|---|
| 2.000 | .312 | 1500 | 98-781• |
| 2.312 | .312 | 1610 | 98-741 |
| 2.438 | .375 | 1710/1760/1810 | 230323 |
| 2.812 | .375 | 1800 | 98-743 |
| 2.812 | .438 | 1880 | 231009• |

## Shipping Straps



| Series | Part Number |
|---|---|
| 1310 | 2-95-29 |
| 1330/1350 | 3-95-19 |
| 1410 | 3-95-29 |
| 1480 | 3-95-79 |
| 1550 | 4-95-49 |

## Bearing Seal Protectors



| Bearing Diameter | Kit Part Number | Seal Protector Part Number | Bearing Diameter | Kit Part Number | Seal Protector Part Number |
|---|---|---|---|---|---|
| 1.062 | SPL90X | 231993 | 1.062 | 5-811X | 232976-2T |
| *SPL90X was replaced by SPL100-1X* | | | 1.062 | 5-812X | 232976-1 |
| 1.062 | 5-785X | 232976-2T | 1.190 | 5-799X | 232977-2 |
| 1.062 | 5-786X | 232976-2T | 1.190 | 5-800X | 232977-2 |
| *5-786X was replaced by 5-785X;* | | | *5-800X was replaced by 5-799X* | | |
| 1.062 | 5-787X | 232976-2T | 1.190 | 5-801X | 232977-2 |
| 1.062 | 5-788X | 232976-2T | 1.190 | 5-802X | 232977-2 |
| 1.062 | 5-789X | 232976-2T | *5-802X was replaced by 5-801X* | | |
| 1.062 | 5-790X | 232976-2T | 1.370 | 5-803X | 232872-2 |
| 1.062 | 5-791X | 232976-2T | 1.370 | 5-804X | 232872-1 |
| *5-791X was replaced by 5-790X;* | | | 1.370 | 5-805X• | 232872-2 |
| 1.062 | 5-792X | 232976-2T | 1.370 | 5-806X | 232872-2 |
| 1.062 | 5-793X | 232976-2T | 1.370 | 5-807X | 232872-1 |
| 1.062 | 5-794X | 232976-2T | 1.370 | 5-809X | 232872-1 |
| *5-794X was replaced by 5-793X;* | | | *5-809X was replaced by SPL70-1X* | | |
| 1.062 | 5-795X | 232976-2T | 1.625 | SPL100-1X | 232884-1 |
| 1.062 | 5-796X | 232976-2T | 1.937 | SPL140X | 232753 |
| 1.062 | 5-797X | 232976-2T | 2.165 | SPL170X | 232689 |
| *5-797X was replaced by 5-796X;* | | | *SPL170X was replaced by SPL170-3X* | | |
| 1.062 | 5-798X⅄ | 232976-2T | 2.362 | SPL250X | 232693 |

• Part is discontinued ■ Part is available until supply is exhausted ⅄ Not sold separately



**Important: See Safety Information in General Information Section (J300P-GI)**

# Small Parts

## Dust Cap Assemblies



| Series | Dust Cap Part Number | I.D.@ Th'd End R=Round S=Splined | Washer | | Seal | | Type R=Round S=Splined | Dust Cap Assy |
|---|---|---|---|---|---|---|---|---|
| | | | Part Number | O.D./I.D. or O.D. of Spline & # Teeth | Part Number R=Rubber C=Cork | O.D./I.D. or O.D. of Spline & # Teeth | | |
| 1000 | 2-14-139⅄ | 1.594/R | — | .000 /.000 | 2-16-53/C | 1.594/1.000 | R | D2L |
| 1000/1280 | 2-14-69 | 1.594/S | — | .000 /.000 | 2-16-53/C | 1.594/1.000 | R | D2A |
| 1100 | 1-14-29 | 1.312/S | — | .000 /.000 | 1-16-23/C | 1.219 /.875 | R | D1A |
| 1110 | 1-14-79• | 1.438/S | — | .000 /.000 | 1-16-93/C | 1.410 /.875 | R | D1B |
| 1270 | 2-14-19 | 1.594/R | 2-15-13 | 1.500/1.031 | 2-16-53/C | 1.594/1.000 | R | D2B |
| 1270 | 2-14-19 | 1.594/R | 2-15-13 | 1.500/1.031 | 2-16-93/R | 1.562 /.969 | R | D2F |
| 1280 | 2-14-69 | 1.594/S | — | .000 /.000 | 2-16-93/R | 1.562 /.969 | R | D2K |
| 1310 | 3-14-39 | 1.652/R | 3-15-33 | 1.562/1.174 | 2-16-263/R | 1.625/1.146 | R | D2M |
| 1310 | 3-14-39 | 1.652/R | 3-15-33 | 1.562/1.174 | 3-16-43/C | 1.641/1.156 | R | D2C |
| 1310 | 3-14-89 | 1.779/R | 3.5-15-53 | 1.688/1.280 | 3-16-83/R | 1.750/1.219 | R | D2N |
| 1310/1350 | 3-14-39 | 1.652/R | 3-15-11 | 1.562/1.406-16 | 3-16-11/C | 1.641/1.375-16 | S | D3E |
| 1350/1410 | 3.5-14-39 | 1.779/R | 3-15-31 | 1.688/1.406-16 | 3-16-31/C | 1.766/1.375-16 | S | D3G |
| 1350/1410 | 3.5-14-39 | 1.779/R | 3.5-15-53 | 1.688/1.281 | 3-16-83/R | 1.750/1.219 | R | D3F |
| 1350/1410 | 3.5-14-39 | 1.779/R | 3.5-15-53 | 1.688/1.281 | 3-16-53/C | 1.750/1.250 | R | D3A |
| 1410 | 3.5-14-19 | 2.026/R | 4-15-43 | 1.938/1.438 | 3-16-93/C | 2.000/1.406 | R | D4F |
| 1410 | 3.5-14-39 | 1.779/R | 3.5-15-53 | 1.688/1.281 | 3-16-53/C | 1.750/1.250 | R | D3B |
| 1410 | 3.5-14-39 | 1.779/R | 3-15-51 | 1.688/1.528-16 | 3-16-51/C | 1.750/1.500-16 | S | D3K |
| 1410/1480 | 3-14-59 | 1.969/R | 3-15-63 | 1.875/1.344 | 3-16-103/C | 1.950/1.295 | R | D3H |
| 1480 | 3-14-59 | 1.969/R | 3-15-41 | 1.875/1.600-16 | 3-16-41/C | 1.938/1.575-16 | S | D3J |
| 1480 | 3-14-69 | 2.715/R | 3-15-73 | 2.625/1.766 | 3-16-113/C | 2.703/1.730 | R | D3D |
| 1500 | 3.5-14-19 | 2.026/R | 4-15-43 | 1.938/1.438 | 4-16-123/R | 1.984/1.375 | R | D4G |
| 1500 | 3.5-14-19 | 2.026/R | 4-15-43 | 1.938/1.438 | 4-16-83/C | 2.000/1.400 | R | D4E• |
| 1500 | 3.5-14-19 | 2.026/R | 4-15-43 | 1.938/1.438 | 4-16-83/C | 2.000/1.400 | R | D4A |
| 1550 | 4-14-69 | 2.225/R | 4-15-13 | 2.125/1.422 | 3-16-123/R | 2.188/1.375 | R | D4M |
| 1550 | 4-14-69 | 2.225/R | 4-15-31 | 2.125/1.778-16 | 4-16-31/C | 2.205/1.726-16 | S | D4K |
| 1550 | 4-14-69 | 2.225/R | 4-15-13 | 2.125/1.422 | 4-16-143/C | 2.203/1.406 | R | D4J |
| 1550 | 4-14-79 | 2.969/R | 4-15-123 | 2.906/1.969 | 4-16-153/C | 2.953/1.910 | R | D4L |
| 1600 | 5-14-29 | 2.969/S | 5-15-33 | 2.906/2.281 | 5-16-33/C | 2.969/2.260 | R | D5C |
| 1710/1760/ 1810 | 6-14-39 | 3.586/R | 6-15-43 | 3.500/2.906 | 6-16-63/C | 3.547/2.875 | R | D6E |
| 1900 | 9-14-19• | 4.712/R | 9-15-13 | 4.625/3.656 | 9-16-13/C | 4.672/3.625 | R | D9A• |

• Part is discontinued ■ Part is available until supply is exhausted ⅄ Not sold separately

**Important: See Safety Information in General Information Section (J300P-GI)**

## One Piece Dust Caps



| Used On Series | Fits Type | Splined Shaft Neck Dia. | Dia. | Slip Yoke Spline Size | Greasable Y=Yes N=No | Part Number |
|---|---|---|---|---|---|---|
| SPL90 | 1 | 1.690 | 2.400 | 1.938-30 | Y | 90-86-18 |
| 1310 | 1 | 1.020 | 1.940 | 1.250-16 | Y | 211256X |
| 1310 | 1 | 1.170 | 2.120 | 1.375-16 | N | 231603• |
| 1310,1330,1350 | 1 | 1.170 | 2.120 | 1.375-16 | Y | 211121X |
| 1330 | 1 | 1.260 | 2.120 | 1.500-30 | Y | 211158X |
| 1410 | 2 | 1.300 | 2.390 | 1.375-16 | N | 3-86-88 |
| 1550 | 2 | 1.410 | 2.460 | 1.750-16 | N | 4-86-18 |
| 1610 | 2 | 1.625 | 2.640 | 2.000-16 | N | 5-86-68 |
| 1710,1760 | 2 | 2.062 | 3.350 | 2.50-16 | N | 6.3-86-18 |
| 1810 | 2 | 2.520 | 3.970 | 3.000-16 | N | 6.5-86-38 |

## Dust Cap Seal Dimensions

| Part Number | Type R=Round S=Splined | O.D. | I.D./ O.D. Spline | No. of Splines | Thickness Teeth | Material |
|---|---|---|---|---|---|---|
| 2-16-263 | R | 1.625 | 1.146 | — | .312 | RUBBER |
| 1-16-23⅄ | R | 1.219 | .875 | — | .312 | CORK |
| 1-16-93⅄ | R | 1.410 | .875 | — | .312 | CORK |
| 2-16-53 | R | 1.594 | 1.000 | — | .312 | CORK |
| 2-16-93 | R | 1.562 | .969 | — | .219 | RUBBER |
| 3-16-43 | R | 1.641 | 1.156 | — | .312 | CORK |
| 3-16-11 | R | 1.641 | 1.375 | 16 | .312 | CORK |
| 3-16-83 | R | 1.750 | 1.219 | — | .219 | RUBBER |
| 3-16-53 | R | 1.750 | 1.250 | — | .312 | CORK |
| 3-16-51 | R | 1.750 | 1.500 | 16 | .312 | CORK |
| 4-16-83 | R | 2.000 | 1.400 | — | .375 | CORK |
| 3-16-93 | R | 2.000 | 1.406 | — | .188 | CORK |
| 4-16-143 | R | 2.203 | 1.406 | — | .375 | CORK |
| 5-16-23 | R | 2.203 | 1.615 | — | .375 | CORK |
| 5-16-53• | R | 2.516 | 1.615 | — | .375 | CORK |
| 3-16-113 | R | 2.703 | 1.730 | — | .219 | CORK |
| 6-16-53• | R | 2.703 | 2.000 | — | .312 | CORK |
| 6-16-123 | R | 2.938 | 2.062 | — | .312 | CORK |
| 4-16-153 | R | 2.953 | 1.922 | — | .220 | CORK |
| 5-16-33■ | R | 2.969 | 2.260 | — | .220 | CORK |
| 6.5-16-13• | R | 3.547 | 2.406 | — | .500 | CORK |
| 8-16-33 | R | 3.547 | 2.510 | — | .500 | CORK |
| 6-16-63■ | R | 3.547 | 2.875 | — | .312 | CORK |
| 9-16-13■ | R | 4.672 | 3.625 | — | .500 | CORK |
| 3-16-31 | S | 1.766 | 1.375 | 16 | .312 | CORK |
| 3-16-41 | S | 1.938 | 1.575 | 16 | .375 | CORK |
| 4-16-31 | S | 2.205 | 1.726 | — | .375 | CORK |
| 6-16-143 | S | 2.906 | 2.500 | 16 | .312 | CORK |

• Part is discontinued ■ Part is available until supply is exhausted ⅄ Not sold separately



**Important: See Safety Information in General Information Section (J300P-GI)**

## Dust Cap Dimensions

| Dust Cap Part Number | Type R=Round S=Splined | I.D. Threads | Hole Size & # Teeth | Length |
|---|---|---|---|---|
| 2-14-69 | S | 1.594 | 1.270-16 | .656 |
| 2-14-19 | R | 1.594 | 1.281 | .602 |
| 2-14-139 ⅄ | R | 1.594 | 1.297 | .656 |
| 3-14-39 | R | 1.652 | 1.406 | .750 |
| 3.5-14-39 ⅄ | R | 1.781 | 1.525 | .750 |
| 3-14-59 | R | 1.969 | 1.594 | .750 |
| 3.5-14-19 ⅄ | R | 2.026 | 1.745 | .750 |
| 4-14-69 | R | 2.225 | 1.770 | .750 |
| 5-14-39• | R | 2.526 | 2.020 | .750 |
| 3-14-69 | R | 2.715 | 2.286 | .750 |
| 6-14-29 | R | 2.719 | 2.520 | 1.000 |
| 4-14-79 | R | 2.969 | 2.520 | .810 |
| 6.5-14-19 | R | 3.586 | 3.031 | 1.000 |
| | | *6.5-14-19 was replaced by 6.5-86-38* | | |
| 6-14-39 | R | 3.586 | 3.281 | .750 |
| 9-14-19• | R | 4.712 | 4.188 | 1.062 |
| 1-14-29 | S | 1.312 | 1.062-16 | .656 |
| | | | *1-14-29 was replaced by D1A* | |
| 1-14-79• | S | 1.438 | 1.062-16 | .656 |
| 5-14-29 | S | 2.969 | 2.688-18 | .562 |

## Dust Cap Washer Dimensions

| Washer Part Number | Type R=Round S=Splined | O.D. | I.D. Round Hole/ O.D. Spline | No. of Teeth | Thickness |
|---|---|---|---|---|---|
| 2-15-13 | R | 1.500 | 1.031 | — | .033 |
| 3-15-33 | R | 1.562 | 1.174 | — | .033 |
| 3.5-15-53 | R | 1.688 | 1.281 | — | .033 |
| 3-15-63 | R | 1.875 | 1.335 | — | .033 |
| 4-15-43 | R | 1.938 | 1.438 | — | .033 |
| 4-15-13 | R | 2.125 | 1.422 | — | .033 |
| 5-15-23 | R | 2.120 | 1.640 | — | .033 |
| 5-15-43• | R | 2.440 | 1.640 | — | .033 |
| 3-15-73 | R | 2.625 | 1.766 | — | .033 |
| 6-15-33 | R | 2.656 | 2.031 | — | .054 |
| 4-15-123 | R | 2.906 | 1.969 | — | .033 |
| 5-15-33■ | R | 2.906 | 2.281 | — | .033 |
| 6-15-93 | R | 2.910 | 2.080 | — | .054 |
| 8-15-23• | R | 3.500 | 2.438 | — | .054 |
| 8-15-33 | R | 3.500 | 2.560 | — | .054 |
| 6-15-43■ | R | 3.500 | 2.906 | — | .054 |
| 9-15-13■ | R | 4.625 | 3.656 | — | .054 |
| 3-15-11 ⅄ | S | 1.562 | 1.406 | 16 | .033 |
| 3-15-31 | S | 1.688 | 1.406 | 16 | .033 |
| 3-15-51 | S | 1.688 | 1.528 | 16 | .033 |
| 3-15-41 | S | 1.875 | 1.600 | 16 | .033 |
| 4-15-31 | S | 2.125 | 1.778 | 16 | .033 |

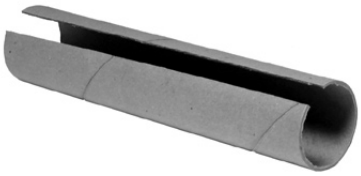
• Part is discontinued ■ Part is available until supply is exhausted ⅄ Not sold separately

## Coupling Shaft Washers

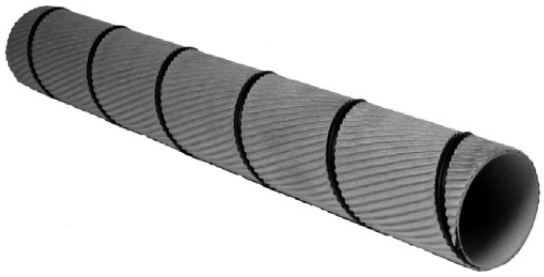


| I.D. | O.D. | Thickness | Part Number |
|---|---|---|---|
| .660 | 1.266 | .188 | 230123-14• |
| .660 | 1.500 | .188 | 230123-12 |
| 1.062 | 2.000 | .125 | 98-216 |
| 1.281 | 2.750 | .156 | 230123-6 |

## Tube Deadeners



| Fits Tube | | | |
|---|---|---|---|
| O.D. Tube | Wall th'k | Length | Part Number |
| 2.500 | .065/.083 | 12.00 | 98-1553-1 |
| 2.500 | .083 | 6.00 | 98-1553-5 ⅄ |
| 3.500 | .083/.095/.134 | 12.00 | 231753-1 |
| 4.000 | .095 | 12.00 | 231094-1 |
| 4.000 | .134 | 3.00 | 231095-3 ⅄ |
| 4.000 | .134 | 6.00 | 231095-2• |
| 4.000 | .134 | 12.00 | 231095-1 |
| 4.245 | .185 | 12.00 | 232793 *(SPL)* |
| 4.500 | .259 | 12.00 | 231185-1 |
| 5.197 | .236 | 12.00 | 232697 *(SPL)* |



• Part is discontinued ■ Part is available until supply is exhausted ⅄ Not sold separately



**Important: See Safety Information in General Information Section (J300P-GI)**

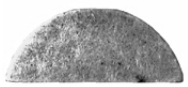
## Square Keys

| Width | Length | Key Part Number |
|---|---|---|
| .250 X .250 | 2.000 | 10-8 |
| *10-8 was replaced by 378484-25* | | |
| .250 X .250 | 2.000 | 378484-25 |



## Woodruff Keys

| Width | Key Part Number | |
|---|---|---|
| | Woodruff | Spicer |
| .312 | B | 500007-25 |





# Notes




**Dana Holding Corporation**
**Spicer Service Parts**
PO Box 321
Toledo, Ohio 43697-0321
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www.spicerparts.com

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**Spicer Service Parts - Canada**
5095 South Service Road
Beamsville, Ontario LOR 1BO
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(419) 861-6325

**J300P-9**
12/08
Printed in U.S.A

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