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SECTION B:2

HARDY SPICER

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UNIVERSAL JOINT TORQUE RANGE

| SERIES | FIG | C | B1 | CONTINUOUS ¹ | INDUSTRIAL ² | SHORT DURATION |
|---------|-----|-------|--------|-------------------------------|-------------------------------|--------------------------------|
| 500 | 1 | 19.05 | 52.00 | 51Nm <i>37.6ft/lbs</i> | 81Nm <i>59.7ft/lbs</i> | 254Nm <i>187.3ft/lbs</i> |
| 1000 | 2 | 23.80 | 38.10* | 68Nm <i>50.2ft/lbs</i> | 102Nm <i>75.2ft/lbs</i> | 420Nm <i>309.8ft/lbs</i> |
| 1140 | 1 | 23.80 | 61.30 | 111Nm <i>81.8ft/lbs</i> | 146Nm <i>107.7ft/lbs</i> | 596Nm <i>439.5ft/lbs</i> |
| 1300 | 1 | 26.99 | 74.61 | 162Nm <i>119.5ft/lbs</i> | 244Nm <i>179.7ft/lbs</i> | 815Nm <i>601ft/lbs</i> |
| 1310 | 1 | 26.99 | 81.76 | 176Nm <i>129.8ft/lbs</i> | 264Nm <i>194.7ft/lbs</i> | 1085Nm <i>800.1ft/lbs</i> |
| 1330 | 1 | 26.99 | 92.08 | 203Nm <i>149.7ft/lbs</i> | 298Nm <i>219.8ft/lbs</i> | 1206Nm <i>889.4ft/lbs</i> |
| 1350 | 1 | 30.16 | 92.08 | 286Nm <i>210.9ft/lbs</i> | 420Nm <i>309.7ft/lbs</i> | 1681Nm <i>1239.7ft/lbs</i> |
| 1410 | 1 | 30.16 | 106.35 | 339Nm <i>250.0ft/lbs</i> | 508Nm <i>374.6ft/lbs</i> | 2034Nm <i>1500.0ft/lbs</i> |
| 1480 | 1 | 34.93 | 106.38 | 461Nm <i>340.0ft/lbs</i> | 678Nm <i>500.0ft/lbs</i> | 2259Nm <i>1999.3ft/lbs</i> |
| 1510 | 1 | 39.70 | 115.90 | 498Nm <i>367.3ft/lbs</i> | 747Nm <i>550.9ft/lbs</i> | 2490Nm <i>1836.3ft/lbs</i> |
| 1550 | 1 | 34.93 | 126.20 | 582Nm <i>429.2ft/lbs</i> | 868Nm <i>640.1ft/lbs</i> | 3254Nm <i>2399.7ft/lbs</i> |
| 1610 | 7/9 | 47.69 | 134.94 | 867Nm <i>639.4ft/lbs</i> | 1322Nm <i>974.9ft/lbs</i> | 4948Nm <i>3649.0ft/lbs</i> |
| 1710 | 7/9 | 49.21 | 154.78 | 1220Nm <i>899.7ft/lbs</i> | 1803Nm <i>1329.6ft/lbs</i> | 6508Nm <i>4799.4ft/lbs</i> |
| 1760 | 7/9 | 49.21 | 177.80 | 1490Nm <i>1098.8ft/lbs</i> | 2210Nm <i>1629.8ft/lbs</i> | 7864Nm <i>5799.4ft/lbs</i> |
| 1800 | 7 | 58.74 | 167.49 | 1695Nm <i>1250.0ft/lbs</i> | 2508Nm <i>1849.5ft/lbs</i> | 8812Nm <i>6498.5ft/lbs</i> |
| 1810 | 7/9 | 49.21 | 191.69 | 1695Nm <i>1250.0ft/lbs</i> | 2508Nm <i>1849.5ft/lbs</i> | 8812Nm <i>6498.5ft/lbs</i> |
| 1880 | 7 | 55.56 | 205.58 | 2305Nm <i>1699.8ft/lbs</i> | 3457Nm <i>2549.4ft/lbs</i> | 12066Nm <i>8898.2ft/lbs</i> |
| SPL 170 | 1 | 55.00 | 164.00 | 1708Nm <i>1253.0ft/lbs</i> | 2562Nm <i>1880.8ft/lbs</i> | 8200Nm <i>6020.0ft/lbs</i> |
| SPL 250 | 1 | 60.00 | 164.00 | 2500Nm <i>1844.0ft/lbs</i> | 3750Nm <i>2766.0ft/lbs</i> | 12000Nm <i>8850.0ft/lbs</i> |

¹ Petrol or diesel engine, 3° joint angle, 3000RPM, 5000 B10 hours life

² Electric motor, 3° joint angle, 1750RPM, 3000 B10 hours life

* B2 dimension

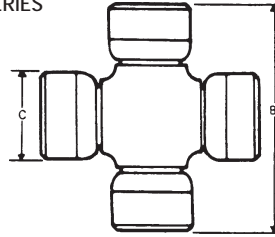
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HARDY SPICER 500

THIS SERIES TO BE DISCONTINUED, ALT = 1000 SERIES COMPONENTS AVAILABLE WHILE STOCK LASTS

C = 19.05
0.75
B = 52.00
2.04



500 UNIVERSAL JOINT KIT

| PART No. | LUBE | DESCRIPTION |
|----------|--------|----------------|
| K5-A539 | NIL | NON-LUBRICATED |
| K5-A546 | CENTRE | CENTRE LUBE |

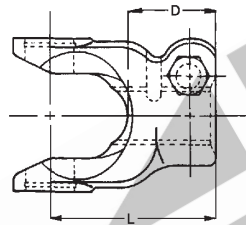


FIG. 1

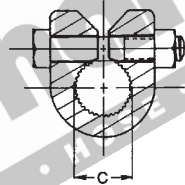
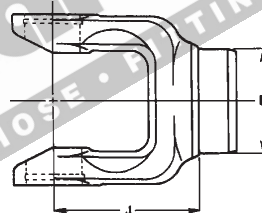


FIG. 2

500 END YOKE

| SPLINED HOLE | | | | | | | | | |
|--------------------------------|---------------------|-------------------|------------------|---------------------|-------------|-----|---------------|--------------|--------------------------------|
| PART No. | SPLINE O.D. & No. C | GROUND HUB O.D. E | LENGTH OF HOLE D | C/L TO END OF HUB L | JOINT ANGLE | FIG | BOLT PART No. | NUT PART No. | NOTES |
| K05-4-A8541 INVOLUTE SPLINE | 28.17-25 1.109 | 43.00 1.023 | 25.98 1.023 | 60.96 2.400 | 70 | 2 | | | BAR YOKE Reference only |
| K05-4-A8091 INVOLUTE SPLINE | 22.23-36 0.875 | | 27.00 1.063 | 61.98 2.440 | 70 | 1 | 508-16 | 509-8 | PINCH BOLT YOKE INCLUDING BOLT |
| K05-4-A8631 INVOLUTE SPLINE | 22.23-48 0.875 | | 27.00 1.063 | 61.98 2.440 | 70 | 1 | 508-16 | 509-8 | PINCH BOLT YOKE SUITS UNIMOG |
| K05-4-A0000 SOLID HUB | - | 40.00 1.575 | | 70.00 2.756 | 70 | | | | CAN ALSO USE AS A WELD YOKE |

BUTT TYPE:
S=SOLID



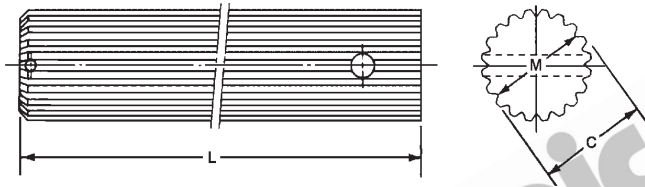
500 WELD YOKE

| PART No. | C/LINE TO POINT OF WELD J | TUBE O.D. & WALL THICKNESS E | TUBE PART No. | BUTT TYPE | MAX. ANGLE | COMMENTS |
|--------------|---------------------------|------------------------------|---------------|-----------|------------|---|
| K05-26-A0457 | 50.00 1.968 | 38.1 x 1.65 1.5 x 0.065 | 1216-0000 | S | 70 | Reference only Can use K05-4-A0000 & Machine |

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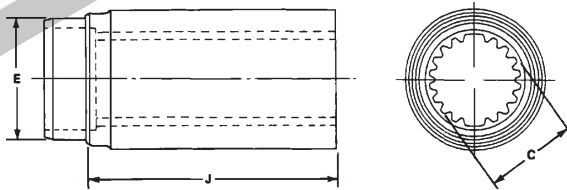
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500 HARDY SPICER



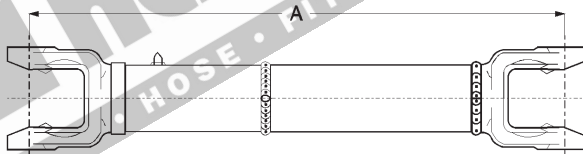
500 SPLINED BAR

| PART No. | SPLINE O.D. & No. C | OVERALL LENGTH L | SPLINE LENGTH | COMMENTS |
|--------------|---------------------|------------------|----------------|------------------------------|
| 94-A660-0295 | 27.5 x 25 1.083 | 295.0 11.61 | 295.0 11.61 | Reference only discontinued. |



500 DRIVE NIB

| PART No. | LENGTH OF SPLINE J | SPLINE SIZE & No. C | BUTT DIA. E | COMMENTS |
|----------|--------------------|---------------------|----------------------------|--------------------------------|
| 94-A663 | 80.00 3.150 | 28.17 x 25 1.109 | 38.1 x 1.65 1.5 x 0.065 | USE DUST SEAL PART No. 94-A661 |



500 TUBULAR TYPE SHAFT ASSEMBLY

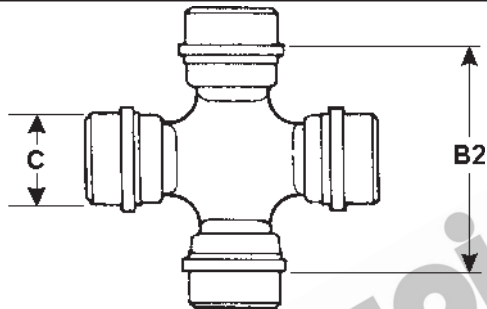
| DRIVE NIB PART No. | SPLINED BAR PART No. | BAR YOKE PART No. | WELD YOKE PART No. | TOTAL SLIP | MINIMUM CLOSED LENGTH A | MAX. ANGLE | COMMENTS |
|--------------------|----------------------|-------------------|--------------------|---------------|-------------------------|------------|--|
| 94-A663 | 94-A660-0295 | K05-4-A8541 | K05-26-A0457 | 35.0 1.377 | 250.0 9.842 | 70 | SLIP MOVEMENT BASED ON SHORTEST SHAFT LENGTH |

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HARDY SPICER 1000

C = 23.80
0.93
B2 = 38.10
1.50



1000

UNIVERSAL JOINT KIT

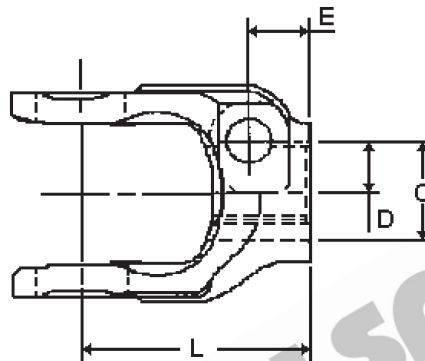
| PART No. | LUBE | DESCRIPTION |
|----------|--------|-------------|
| 5-170X | CENTRE | STANDARD |

1000

OTHER UNIVERSAL JOINT KIT

Refer to Section B:1 for dimensional data

| PART No. | LUBE | DESCRIPTION |
|----------|--------|-----------------------------------|
| RUJ-0600 | CENTRE | CONVERSION 0600 - 1000 SERIES |
| RUJ-0601 | CENTRE | CONVERSION 0600/1000 - L6N SERIES |



1000

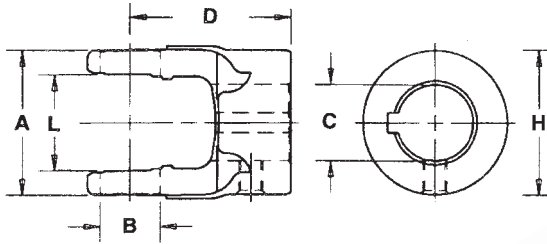
END YOKE

| SPLINED HOLE | | | | | | | JOINT ANGLE | NOTES |
|--------------|---------------------|--|----------------------------------|----------------|---------------------|----|------------------------|-------|
| PART No. | SPLINE O.D. & No. C | CENTRE OF SPLINE TO CENTRE BOLT HOLE D | CENTRE OF BOLT HOLE TO END HUB E | HOLE DIA | C/L TO END OF HUB L | | | |
| 10-4-611SX | 18.77-36 0.739 | 13.34 0.525 | 11.94 0.470 | 11.86 0.467 | 57.15 2.250 | 60 | 30 SPLINES BASED ON 36 | |
| 10-4-491SX | 20.59-36 0.811 | 13.64 0.537 | 11.94 0.470 | 11.86 0.467 | 63.50 2.500 | 60 | 30 SPLINES BASED ON 36 | |
| 10-4-491SX | 20.62-36 0.812 | 11.94 0.470 | 11.94 0.470 | 10.31 0.406 | 63.50 2.500 | 60 | 30 SPLINES BASED ON 36 | |
| 10-4-741SX | 22.10-36 0.870 | 14.77 0.582 | 11.94 0.470 | 11.86 0.467 | 63.50 2.500 | 60 | 30 SPLINES BASED ON 36 | |
| 10-4-371SX | 25.24-36 0.994 | 15.21 0.599 | 11.94 0.470 | 10.29 0.405 | 63.50 2.500 | 60 | 30 SPLINES BASED ON 36 | |
| 10-4-731SX | 25.24-36 0.994 | 15.30 0.602 | 11.94 0.470 | 11.86 0.467 | 63.50 2.500 | 60 | 30 SPLINES BASED ON 36 | |

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1000 HARDY SPICER

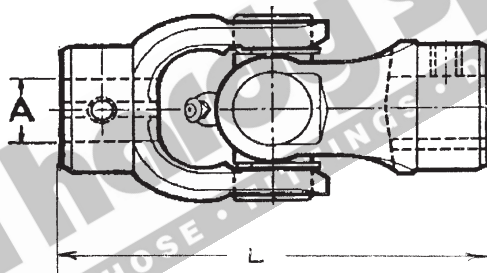


1000 END YOKE - ROUND HOLE

| PART No. | HOLE DIA C | KEY | HUB O.D. | CENTRE LINE TO END OF HUB D | LENGTH THRU HOLE | ANGLE | COMMENTS |
|-----------|----------------|---------------|----------------|--------------------------------------|------------------------|-------|-------------|
| 10-4-373 | 15.88 0.625 | 4.78 0.188 | 41.28 1.625 | 63.50 2.500 | 27.00 1.063 | 60 | INDENT ITEM |
| 10-4-13 | 19.05 0.750 | 4.78 0.188 | 41.28 1.625 | 63.50 2.500 | 27.00 1.063 | 60 | |
| 10-4-63 | 22.23 0.875 | 6.35 0.250 | 41.28 1.625 | 63.50 2.500 | 27.00 1.063 | 60 | |
| 10-4-93 | 25.40 1.000 | 6.35 0.250 | 50.80 2.000 | 63.50 2.500 | 27.00 1.063 | 60 | |
| 10-4-193 | 31.75 1.250 | 7.92 0.312 | 50.80 2.000 | 63.50 2.500 | 27.00 1.063 | 60 | |
| 10-4-250M | 25.00 0.984 | 8.00 0.315 | 41.28 1.625 | 63.50 2.500 | 27.00 1.063 | 60 | |

1000 END YOKE - SPLINED HOLE

| PART No. | SPLINE O.D. | SPLINE No. | HUB O.D. | CENTRE LINE TO END OF HUB D | LENGTH THRU HOLE | ANGLE | COMMENTS |
|------------|----------------|---------------|----------------|--------------------------------------|------------------------|-------|---|
| 10-4-481 | 22.22 0.875 | 13 | 41.28 1.625 | 63.50 2.500 | 27.00 1.063 | 60 | |
| 10-4-A7346 | 22.22 1.290 | 4 | 46.00 1.811 | 57.40 2.260 | 20.50 0.807 | | BAR YOKE FOR STEERING SHAFT |
| 10-4-3453 | 25.40 1.000 | 15 | - | 71.50 2.815 | 34.00 1.339 | | QUICK RELEASE YOKE 3 BALL SLEEVE TYPE QR |



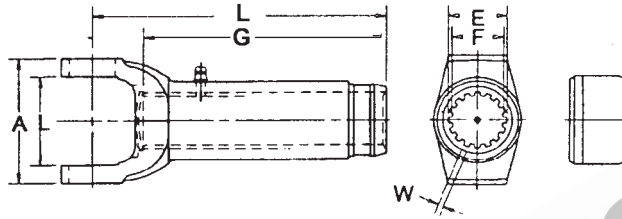
1000 SINGLE JOINT ASSEMBLY

| PART No. | HOLE DIA A | KEY | HUB O.D. | LENGTH L | LENGTH THRU HOLE | ANGLE | COMMENTS |
|------------|------------------|---------------|----------------|-----------------|------------------------|-------|----------|
| SKA-10750 | 19.05 0.750 | 4.78 0.188 | 41.28 1.625 | 127.00 5.000 | 27.00 1.063 | 60 | |
| SKA-10875 | 22.23 0.875 | 6.35 0.250 | 41.28 1.625 | 127.00 5.000 | 27.00 1.063 | 60 | |
| SKA-10100 | 25.40 1.000 | 6.35 0.250 | 41.28 1.625 | 127.00 5.000 | 27.00 1.063 | 60 | |
| SKA-10250M | 25.00 0.984 | 8.00 0.315 | 41.28 1.625 | 127.00 5.000 | 27.00 1.063 | 60 | |

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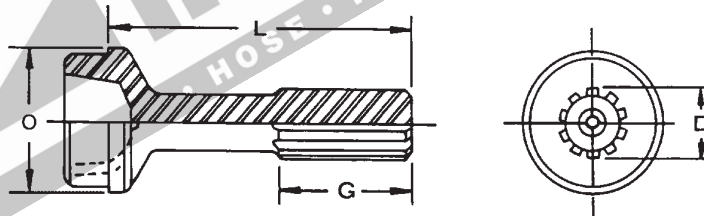
1000 HARDY SPICER



1000

SLIP YOKE

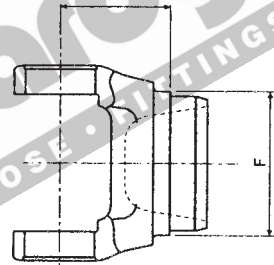
| PART No. | SPLINE O.D. & No. D | C/LINE TO END OF SPLINE L | LENGTH OF SPLINE G | JOINT ANGLE | DUST CAP KIT | COMMENTS |
|-----------|------------------------|------------------------------|-----------------------|-------------|--------------|------------------------|
| 10-3-18KX | 31.75-16 1.250 | 139.70 5.500 | 102.36 4.03 | 60 | DCK10A | STANDARD |
| 10-3-13X | 19.05-BORE 0..750 | 140.30 5.524 | 104.00 4.09 | | N/A | BORED 3/4" x 3/16" KEY |



1000

STUB

| SPLINE TYPE: | | | | BUTT TYPE: | | | | |
|---------------------------------|------------------------|-------------|-----------------------|-------------------------------------|-----------|-------------------------------|---------------|----------|
| HC = HARDY COATED ST = STEEL | | | | H = HOLLOW S = SOLID | | | | |
| PART No. | SPLINE DIA. & No. D | SPLINE TYPE | LENGTH OF SPLINE G | END OF SPLINE TO POINT OF WELD L | BUTT TYPE | TUBE O.D. & THICKNESS O | TUBE PART No. | COMMENTS |
| 2-40-1741 | 31.75-16 1.256 | HC | 50.80 2.000 | 152.40 6.000 | H | 50.80 x 2.11 2.000 x 0.083 | | STANDARD |



1000

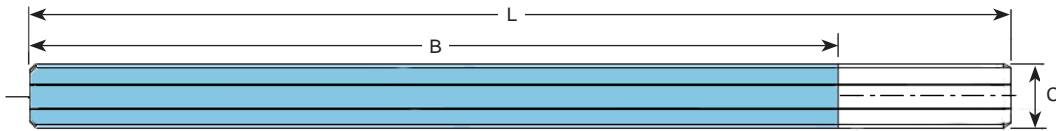
WELD YOKE

| PART No. | C/LINE TO POINT OF WELD J | TUBE O.D. & WALL THICKNESS E | TUBE PART No. | BUTT TYPE | MAX. ANGLE | COMMENTS |
|------------|------------------------------|---------------------------------|---------------|-----------|------------|----------|
| 10-28-97 | 51.00 2.008 | 44.45 x 1.65 1.750 x 0.065 | - | H | - | |
| 10-28-1005 | 44.45 1.750 | 50.80 x 2.1 2.000 x 0.083 | - | S | - | |

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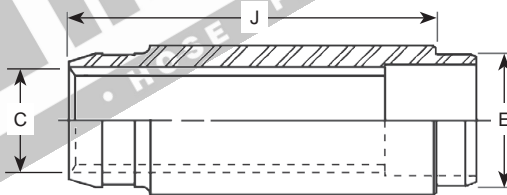
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1000 HARDY SPICER



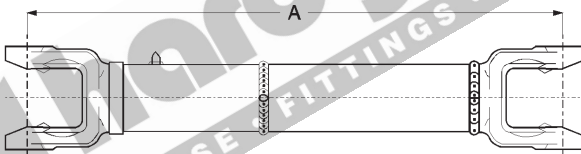
1000 SPLINED BAR

| PART No. | SPLINE O.D. & No. C | OVERALL LENGTH L | SPLINE LENGTH B | COMMENTS |
|---------------|---------------------|------------------|------------------|---|
| 94-A7347-0305 | 33.40 x 4 1.315 | 305.00 12.008 | 270.00 10.630 | BAR YOKE TO SUIT 10-4-A7346 SPLINE BAR IS HARDY COATED |



1000 DRIVE NIB

| PART No. | POINT OF WELD TO END J | SPLINE SIZE & No. C | BUTT DIA. E | COMMENTS |
|----------|------------------------|---------------------|-------------------------------|------------------------------------|
| 94-A7348 | 138.00 5.433 | 33.40 x 4 1.315 | 44.45 x 1.65 1.750 x 0.065 | USE DUST SEAL PART No. DCK10-A7349 |



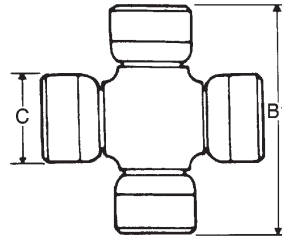
1000 TUBULAR TYPE SHAFT ASSEMBLY

| DRIVE NIB PART No. | SPLINED BAR PART No. | BAR YOKE PART No. | WELD YOKE PART No. | TOTAL SLIP | MINIMUM CLOSED LENGTH A | MAX. ANGLE | COMMENTS |
|--------------------|----------------------|-------------------|--------------------|-----------------|-------------------------|------------|----------|
| 94-A7348 | 94-A7347-0305 | 10-4-A7346 | 10-28-97 | 150.00 5.905 | 385.00 15.157 | 60 | |

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HARDY SPICER 1140

C = 23.80
0.93
B1 = 61.30
2.41



1140 UNIVERSAL JOINT KIT

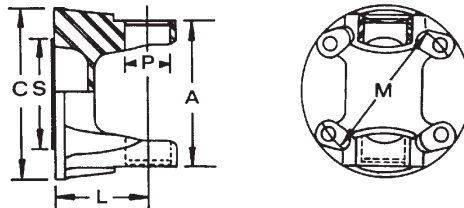
| PART No. | LUBE | DESCRIPTION |
|---------------------|-------|-------------------------|
| <i>K5-LGB80R</i> | SIDE | STANDARD |
| <i>K5-LGB80R-SP</i> | CAP | LUBE IN CAP |
| <i>K5-A64</i> | CROSS | LUBE IN CENTRE OF CROSS |
| <i>K5-GB150</i> | NIL | NON-LUBRICATED |

1140 CONVERSION UNIVERSAL JOINT KITS

Refer to Section B:1 for dimensional data

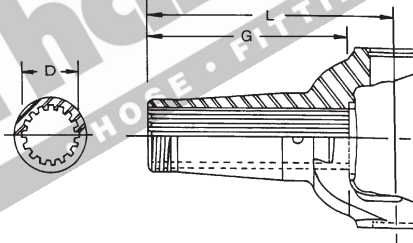
| PART No. | LUBE | DESCRIPTION |
|-----------------|------|---------------------------------|
| <i>RUJ-1766</i> | | CONVERSION 1140 - 17R SERIES |
| <i>RUJ-1801</i> | | CONVERSION 1140 SERIES - SUZUKI |

A - 67.46
2.65
P - 23.80
0.93



1140 FLANGE YOKE

| PART No. | FLANGE DIA. | C/L OF U.J. TO FACE | SPIGOT DIA M=MALE F=FEMALE S | MAX. STATIC ANGLE | P.C.D. M | BOLT HOLE PATTERN | No. HOLES | HOLE DIA | DESCRIPTION |
|-------------------|----------------|---------------------|---------------------------------------|-------------------|----------------|--------------------------------|-----------|---------------|---------------------|
| <i>1-2-39</i> | 85.00 3.346 | 30.15 1.187 | M-57.15 M-2.250 | 15 | 69.85 2.75 | 44.91 x 53.50 1.768 x 2.106 | 4 | 7.92 0.312 | STANDARD |
| <i>K1-2-A2099</i> | 75.00 2.953 | 42.00 1.654 | F-42.00 F-1.654 | 20 | 62.00 2.441 | EQUALLY SPACED | 6 | 6.10 0.240 | METRIC DIN 75 x 6M6 |



SUPPLIED WITH DUST CAP

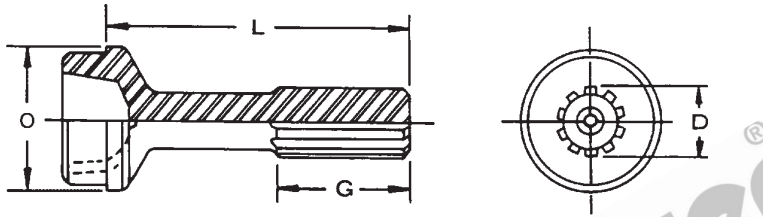
1140 SLIP YOKE

| PART No. | SPLINE O.D. & No. | C/LINE TO END OF SPLINE | LENGTH OF SPLINE | JOINT ANGLE | DUST CAP KIT | COMMENTS |
|------------------|-------------------|-------------------------|------------------|-------------|---------------|----------|
| <i>K1-3-A360</i> | 26.97-16 1.062 | 110.00 4.330 | 83.00 3.268 | 15 | <i>DCK14A</i> | STANDARD |

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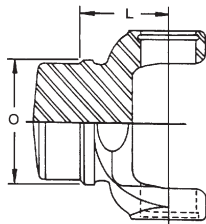
1140 HARDY SPICER



1140 STUB

| SPLINE TYPE: | | HC = HARDY COATED ST = STEEL | | | BUTT TYPE: | | H = HOLLOW S = SOLID | | COMMENTS |
|--------------|-------------------|---------------------------------|------------------|--------------------------------|------------|------------------------------|-------------------------|-------------|----------|
| PART No. | SPLINE DIA. & No. | SPLINE TYPE | LENGTH OF SPLINE | END OF SPLINE TO POINT OF WELD | BUTT TYPE | TUBE O.D. & THICKNESS | TUBE PART No. | | |
| | D | | G | L | | O | | | |
| K1-42-GB1901 | 26.97-16 1.062 | ST | 44.45 1.750 | 103.96 4.093 | S | 50.80 x 1.65 2.00 x 0.065 | 1616-0000 | STANDARD | |
| 1-42-300 | 26.97-16 1.062 | ST | 300.00 11.811 | | | | | SPLINED BAR | |

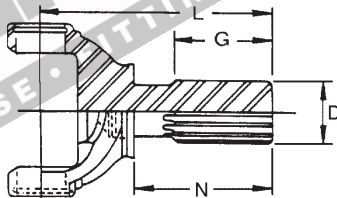
BUTT TYPE:
H=HOLLOW
S=SOLID



1140 WELD YOKE

| PART No. | C/LINE TO POINT OF WELD L | TUBE O.D. & WALL THICKNESS O | TUBE PART No. | BUTT TYPE | MAX. ANGLE | COMMENTS |
|------------|------------------------------|---------------------------------|---------------|-----------|------------|----------|
| K1-26-GB17 | 34.93 1.375 | 50.80 x 1.65 2.00 x 0.065 | 1616-0000 | S | 15 | STANDARD |

SPLINE TYPE:
HC = HARDY COATED
ST = STEEL



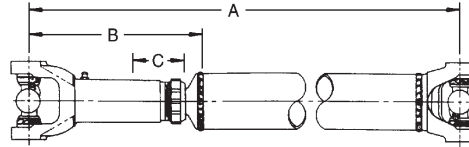
1140 STUB YOKE

| PART No. | SPLINE DIA. & No. | LENGTH OF SPLINE | C/LINE TO END OF SPLINE L | SHOULDER TO END OF SPLINE N | SPLINE TYPE | MAX. ANGLE | COMMENTS |
|----------|-------------------|------------------|------------------------------|--------------------------------|-------------|------------|----------|
| | D | G | | | | | |
| 1-82-21 | 26.99-16 1.063 | 42.88 1.688 | 92.86 3.656 | 73.03 2.875 | HC | 15 | |

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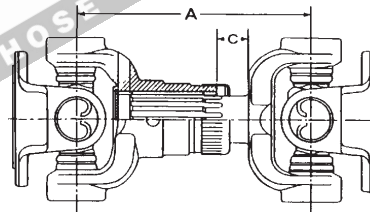
HARDY SPICER 1140



1140 TUBULAR TYPE ASSEMBLY CHART

MINIMUM TUBE LENGTH = 39.8mm (1.56")

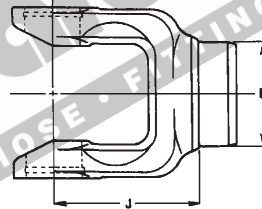
| SLIP YOKE FEMALE PART No. | STUB MALE PART No. | C/LINE TO POINT OF WELD CLOSED B | TOTAL SLIP C | CLOSED LENGTH C/L TO C/L U.J.'s A | WELD YOKE K1-26-GB17 | MAX. ANGLE OF ASSY. 15 | TUBE PART No. & SIZE 1616-0000 2.000 x 0.065 |
|---------------------------------|--------------------------|--|--------------------|---|----------------------------|---------------------------------|--|
| K1-3-A360 | K1-42-GB1901 | 130.0 5.110 | 42.9 1.690 | 204.7 8.060 | | | |



1140 SHORT COUPLED ASSEMBLY CHART

| SLIP YOKE FEMALE PART No. | STUB YOKE MALE PART No. | TOTAL SLIP C | MIN. C/L TO C/L U.J.'s CLOSED A | MAX. ANGLE OF ASSY. 15 | COMMENTS |
|---------------------------------|-------------------------------|--------------------|---|---------------------------------|----------|
| K1-3-A360 | 1-82-21 | 17.0 0.670 | 136.9 5.390 | | |

BUTT TYPE:
S=SOLID



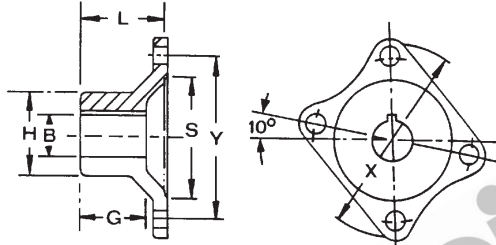
1140 SOLID END YOKE

| PART No. | C/LINE TO POINT OF WELD J | TUBE O.D. & WALL THICKNESS E | LENGTH THROUGH HUB 1.772 | BUTT TYPE S | MAX. ANGLE 35 | COMMENTS SOLID HUB END YOKE |
|------------|------------------------------------|---------------------------------------|-----------------------------------|-------------------|---------------------|--------------------------------|
| K1-4-A0000 | 80.00 3.150 | 52mm Hub 1.575 | 45.00 1.772 | | | |

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1140 HARDY SPICER



1140 COMPANION FLANGE

CIRCULAR TYPE - ROUND HOLE

| PART No. | HOLE DIA. | HUB O.D. | MAX. BORE STD KEY | FLANGE FACE TO END OF HUB L | LENGTH THRU HOLE G | BOLT HOLE DIA. & No. | P.C.D. Y | SPIGOT DIA. S | FLANGE O.D. X | BOLT HOLE PATTERN |
|-------------------|----------------|----------------|-------------------|-----------------------------|--------------------|----------------------|----------------|--------------------|----------------|-------------------------------|
| K1-1-A0433 | 12.70 0.500 | 55.92 2.200 | | 53.92 2.120 | 52.32 2.060 | 8.2 x 4 0.312 | 69.85 2.750 | M-57.15 M-2.250 | 85.00 3.346 | 44.91 x 53.3 1.768 x 2.106 |

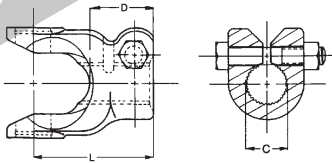


FIG. 1

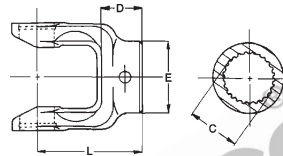


FIG. 2

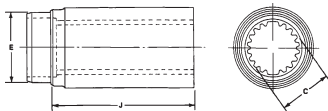


FIG. 3



FIG. 4

1140 STEERING SHAFT PARTS

| PART No. | SPLINE O.D. & No. C | C/L TO END OF HUB L | JOINT ANGLE | FIG | NOTES |
|---------------------|---------------------|---------------------|-------------|-----|---|
| K1-4-A6431 | 25.40-36 1.000 | 70.00 2.756 | 90 | 1 | PINCH BOLT YOKE WITHOUT BOLT |
| K1-4-A8441 | 22.23-36 0.875 | 70.00 2.756 | 90 | 1 | PINCH BOLT YOKE WITHOUT BOLT |
| K1-4-A8681 | 25.40-79 1.000 | 70.00 2.756 | 90 | 1 | PINCH BOLT YOKE WITHOUT BOLT |
| 94-A542 | 34.93-31 1.375 | | | 3 | DRIVE NIB - LENGTH = 115mm N.L.A. - REFERENCE ONLY |
| 94-A543-0478 | 34.93-31 1.375 | | | 4 | SPLINED BAR x 478mm |

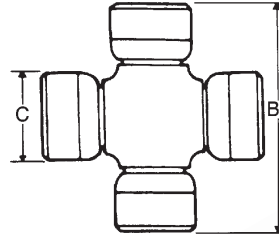
STEERING SHAFTS PARTS AVAILABLE WHILE STOCK LASTS

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HARDY SPICER 1300

C = 26.99
1.06
B1 = 74.61
2.93

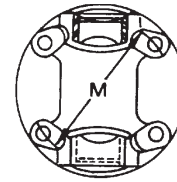
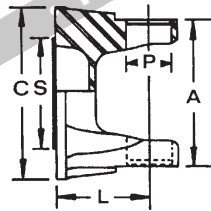


1300

UNIVERSAL JOINT KIT

| PART No. | LUBE | DESCRIPTION |
|-----------|-------|-------------------------|
| K5-L4R | SIDE | STANDARD |
| K5-GB35 | NIL | AXLE JOINTS - NO SEALS |
| K5-LGB36R | CROSS | LUBE IN CENTRE OF CROSS |
| K5-A757 | SIDE | HEAVY-DUTY |

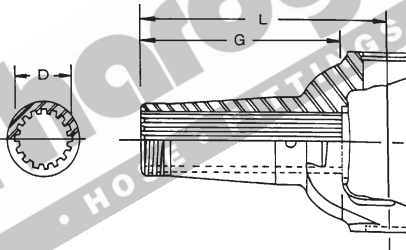
A - 77.57
3.05
P - 26.99
1.06



1300

FLANGE YOKE

| PART No. | FLANGE DIA. | C/L OF U.J. TO FACE | SPIGOT DIA M=MALE F=FEMALE S | MAX. STATIC ANGLE | P.C.D. | BOLT HOLE PATTERN | No. HOLES | HOLE DIA | DESCRIPTION |
|------------|----------------|---------------------|---------------------------------------|-------------------|----------------|--------------------------------|-----------|---------------|-------------|
| | C | L | S | | M | | | | |
| K2-2-GB239 | 96.82 3.812 | 34.95 1.375 | M-60.33 M-2.375 | 17 | 79.38 3.125 | 60.80 x 51.02 2.394 x 2.009 | 4 | 9.68 0.381 | STANDARD |



SUPPLIED WITH DUST CAP

1300

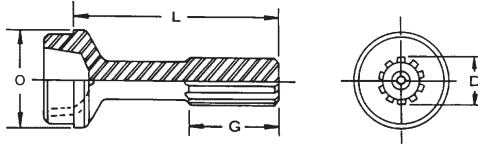
SLIP YOKE

| PART No. | SPLINE O.D. & No. | C/LINE TO END OF SPLINE | LENGTH OF SPLINE | JOINT ANGLE | DUST CAP KIT | COMMENTS |
|-----------|-------------------|-------------------------|------------------|-------------|--------------|----------|
| | D | L | G | | | |
| K2-3-A610 | 34.93-16 1.375 | 140.00 5.510 | 115.00 4.528 | 17 | DCK30A | STANDARD |

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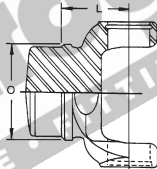
1300 HARDY SPICER



1300 STUB

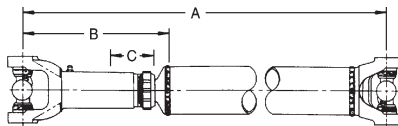
| SPLINE TYPE: | | HC = HARDY COATED ST = STEEL | | | BUTT TYPE: | | H = HOLLOW S = SOLID | | COMMENTS |
|--------------|------------------------|---------------------------------|-----------------------|-------------------------------------|------------|------------------------------|-------------------------|--------------------------|----------|
| PART No. | SPLINE DIA. & No. D | SPLINE TYPE | LENGTH OF SPLINE G | END OF SPLINE TO POINT OF WELD L | BUTT TYPE | TUBE O.D. & THICKNESS O | TUBE PART No. | | |
| K2-42-GB2701 | 34.93-16 1.375 | HC | 58.00 2.280 | 129.00 5.079 | S | 50.80 x 2.41 2.00 x 0.095 | 1613-0000 | AVAIL. WHILE STOCK LASTS | |

BUTT TYPE:
H=HOLLOW
S=SOLID



1300 WELD YOKE

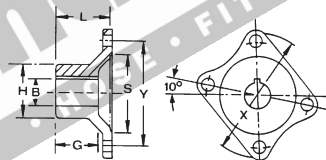
| PART No. | C/LINE TO POINT OF WELD L | TUBE O.D. & WALL THICKNESS O | TUBE PART No. | BUTT TYPE | MAX. ANGLE | COMMENTS |
|------------|------------------------------|---------------------------------|---------------|-----------|------------|----------|
| K2-26-GB17 | 42.00 1.3653 | 50.80 x 2.41 2.000 x 0.095 | 1613-0000 | H | 17 | |



1300 TUBULAR TYPE ASSEMBLY CHART

MINIMUM TUBE LENGTH = 39.8mm (1.56")

| SLIP YOKE FEMALE PART No. | STUB MALE PART No. | C/LINE TO POINT OF WELD CLOSED B | TOTAL SLIP C | CLOSED LENGTH C/L TO C/L U.J.'s A | WELD YOKE K2-26-GB17 | MAX. ANGLE OF ASSY. 17 | TUBE PART No. & SIZE 1613-0000 2.000 x 0.095 |
|---------------------------|--------------------|-------------------------------------|-----------------|--------------------------------------|-------------------------|---------------------------|--|
| K2-2-239 | K2-42-GB2701 | 154.0 6.063 | 55.0 2.165 | 259.0 10.197 | | | |



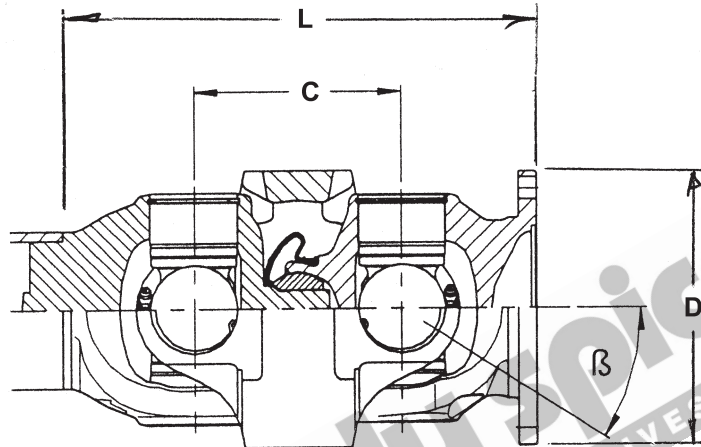
1300 COMPANION FLANGE

| CIRCULAR TYPE - ROUND HOLE | | | | | | | | | | |
|----------------------------|----------------|----------------|-------------------|--------------------------------|-----------------------|----------------------|----------------|--------------------|------------------|--------------------------------|
| PART No. | HOLE DIA. B | HUB O.D. H | MAX. BORE STD KEY | FLANGE FACE TO END OF HUB L | LENGTH THRU HOLE G | BOLT HOLE DIA. & No. | P.C.D. Y | SPIGOT DIA. S | FLANGE O.D. X | BOLT HOLE PATTERN |
| K2-1-A0413 | 12.70 0.500 | 63.50 2.500 | | 62.00 2.437 | 59.00 2.323 | 9.8 x 4 0.385 | 79.37 3.125 | F-60.32 F-2.375 | 95.00 3.740 | 60.80 x 51.02 2.394 x 2.009 |

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1300 HARDY SPICER



1300

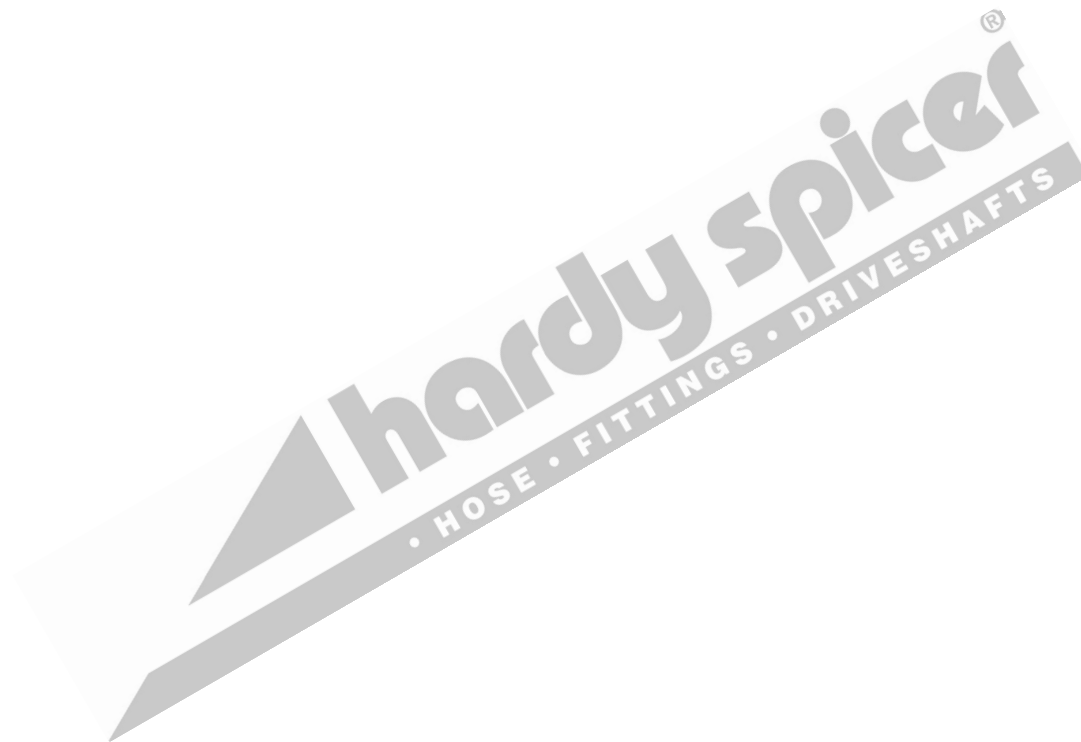
DOUBLE CARDAN ASSEMBLY

| DOUBLE CARDAN ASSEMBLY PART No. | FLANGE DIA. | C/LINE TO C/LINE | FLANGE FACE TO WELD | BOLT HOLE PATTERN | SPIGOT DIA | TUBE SIZE | MAX ANGLE | COMMENTS |
|---------------------------------|-----------------|------------------|---------------------|----------------------|------------------|-----------|-----------|---------------------|
| | D | C | L | | | O | β | |
| 3048-674 | 115.10 4.531 | 71.92 2.831 | 156.00 6.142 | 67x67 2.638x2.638 | 65.00M 2.559M | 50 x 2MM | 30 | LANDROVER DISCOVERY |

Complete assembly only - Separate parts not available.
 Alternate part available in 25R series. Heavy duty with replaceable components.
 Assembly - **800-R2540** U/Joints - **114-2501** Centre Kit - **CV-163**

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HARDY SPICER 1310

C = 26.99
1.06
B1 = 81.76
3.22

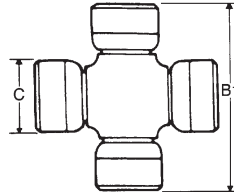


FIG. 1

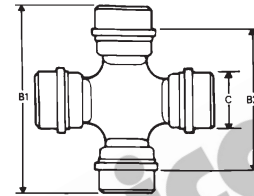


FIG. 2

1310

UNIVERSAL JOINT KIT

| PART No. | LUBE | FIGURE | DESCRIPTION |
|------------------|------|--------|--|
| <i>K5-13XR</i> | SIDE | 1 | STANDARD |
| <i>K5-A644</i> | SIDE | 1 | HIGH ANGLE HEAVY DUTY |
| <i>5-625XD</i> | NIL | 1 | NON-LUBRICATED SOLID CROSS |
| <i>5-433-1X</i> | CAP | 1 | LUBE IN CAP |
| <i>RUJ-2027</i> | SIDE | 2 | LIGHT DUTY ONLY (1280 SERIES) FORD CLEVELAND |
| <i>K5-13XRHD</i> | SIDE | 1 | PREMIUM HEAVY DUTY |

1310

CONVERSION UNIVERSAL JOINT KITS

Refer to Section B:1 for dimensional data & hardware kits

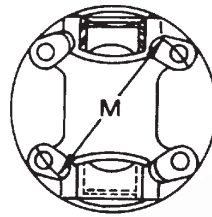
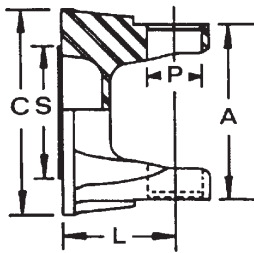
| PART No. | LUBE | DESCRIPTION |
|-----------------|------|---|
| <i>RUJ-2039</i> | | FORD DIFF APPLICATIONS |
| <i>RUJ-2032</i> | SIDE | CONVERSION 1310 - 2R SERIES |
| <i>5-134X</i> | SIDE | CONVERSION 1310 - 1330 SERIES |
| <i>5-150X</i> | | CONVERSION 1310 - 1330 SERIES 9" |
| <i>114-550</i> | | CONVERSION 1310 - 3R SERIES |
| <i>K5-A530</i> | SIDE | CONVERSION 1310 - 21R SERIES |
| <i>5-632XD</i> | NIL | CONVERSION 1310 - 9" DIFF 28.58MM CAP SOLID CROSS |
| <i>5-634XD</i> | NIL | CONVERSION 1310 - 21R SERIES SOLID CROSS |
| <i>RUJ-2502</i> | | CONVERSION 1310 - 25R SERIES |
| <i>5-460X</i> | | CONVERSION 1310 - 1350 SERIES |
| <i>RUJ-2110</i> | | CONVERSION 1310 - ISUZU |
| <i>RUJ-2113</i> | | CONVERSION 1310 - TOYOTA |
| <i>RUJ-2114</i> | | CONVERSION 1310 - NISSAN |

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1310 HARDY SPICER

A = 88.08
 3.46
 P = 26.99
 1.06



1310 FLANGE YOKE

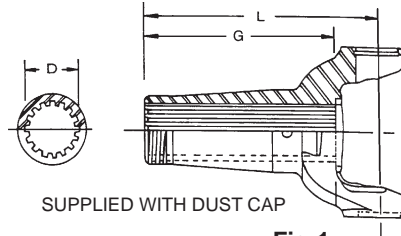
| PART No. | FLANGE DIA. C | C/L OF U.J. TO FACE L | SPIGOT DIA M=MALE F=FEMALE S | MAX. STATIC ANGLE | P.C.D. M | BOLT HOLE PATTERN | No. HOLES | HOLE DIA | DESCRIPTION |
|------------|------------------|--------------------------|---------------------------------------|-------------------|----------------|--------------------------------|-----------|----------------|-----------------------------|
| 2-2-329 | 96.82 3.812 | 34.93 1.375 | M-60.33 M-2.375 | 20 | 79.38 3.125 | 60.80 x 51.02 2.394 x 2.009 | 4 | 9.68 0.381 | STANDARD |
| 2-2-459 | 98.43 3.875 | 41.28 1.625 | M-60.33 M-2.375 | 30 | 79.38 3.125 | 60.80 x 51.02 2.394 x 2.009 | 4 | 9.53 0.375 | WIDE ANGLE |
| 2-2-A2259# | 90.00 3.543 | 50.00 1.968 | F-47.00 F-1.850 | 30 | N/A | N/A | N/A | N/A | SEMI FINISHED 90mm O.D. |
| 2-2-A2109 | 90.00 3.543 | 50.00 1.969 | F-47.00 F-1.850 | 30 | 74.50 2.933 | EQUALLY SPACED | 4 | 6.00 0.236 | METRIC DIN 90 x 4M8 |
| 2-2-479 | 117.48 4.625 | 34.93 1.375 | M-69.85 M-2.750 | 20 | 95.25 3.750 | 61.23 x 72.96 2.410 x 2.872 | 4 | 11.13 0.438 | 1310 EARS / 1350 FLANGE |
| 2-2-939-1 | 111.13 4.375 | 41.28 1.625 | F-50.80 F-2.000 | 30 | 88.90 3.500 | EQUALLY SPACED | 4 | 12.70 0.500 | EB-EF FALCON FLANGE |
| 2-2-A2309 | 91.00 3.543 | 50.00 1.968 | M-42.00 M-1.653 | 30 | 69.46 2.734 | 60.00 x 35.00 2.362 x 1.377 | 4 | 8.08 0.318 | JAP PTO |
| 2-2-A2319 | 100.00 3.937 | 53.00 2.087 | F-57.00 F-2.244 | 30 | 84.00 3.307 | EQUALLY SPACED | 6 | 8.00 0.315 | METRIC DIN 100 x 6M8 |
| 2-2-A2329 | 100.0 3.937 | 53.00 2.087 | F-57.00 F-2.244 | 30 | N/A | N/A | N/A | N/A | SEMI FINISHED 100mm O.D. |
| 2-2-A2339 | 120.00 4.724 | 52.00 2.047 | F-75.00 F-2.953 | 30 | N/A | N/A | N/A | N/A | SEMI FINISHED 120mm O.D. |
| 2-2-A2349 | 120.00 4.724 | 43.00 1.693 | M-40.00 M-1.575 | 15 | | 83.20 x 48.00 3.276 x 1.890 | 4 | 12.20 0.480 | TRANSIT G/BOX FLANGE |
| 2-2-A2359 | 120.00 4.724 | 43.00 1.693 | M-56.00 M-2.205 | 15 | | 83.20 x 48.00 3.276 x 1.890 | 4 | 12.20 0.480 | TRANSIT DIFF FLANGE |
| 2-2-899-1 | 85.00 3.346 | 41.50 1.634 | M-57.15 M-2.250 | | 69.85 2.750 | 44.91 x 53.50 1.768 x 2.106 | 4 | 7.92 0.312 | 1140 FACE |
| 2-2-1169 | 119.86 4.719 | 45.23 1.781 | M-65.00 M-2.560 | | 95.26 3.750 | EQUALLY SPACED | 4 | 12.20 0.480 | 1310 x NISSAN |
| 2-2-1309 | 102.00 4.016 | 45.23 1.781 | M-50.00 M-1.969 | | 81.28 3.200 | EQUALLY SPACED | 4 | 10.30 0.406 | NISSAN 300ZX & NAVARA |

AVAILABLE WHILE STOCKS LAST

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HARDY SPICER 1310



SUPPLIED WITH DUST CAP

Fig-1

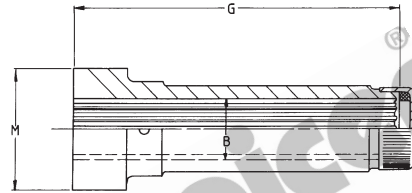


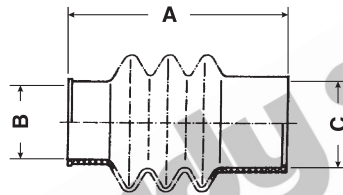
Fig-2

1310

SLIP YOKE

| PART No. | FIG | SPLINE O.D. & No. SPLINE D | C/LINE TO END OF L | LENGTH OF SPLINE G | JOINT ANGLE | DUST CAP KIT | COMMENTS |
|------------|-----|----------------------------|--------------------|--------------------|-------------|--------------|--|
| 2-3-A560 | 1 | 34.93-16 1.375 | 126.00 4.960 | 101.00 3.976 | 20 | DCK30A | FOR SHORT COUPLED SHAFTS |
| 2-3-A670 | 1 | 34.93-16 1.375 | 140.00 5.510 | 115.00 4.528 | 20 | DCK30A | STANDARD |
| 2-3-5221KX | 1 | 34.93-16 1.375 | 173.02 6.812 | 138.00 5.433 | 30 | DCK30A | MEDIUM |
| 2-3-5821KX | 1 | 34.93-16 1.375 | 200.00 7.875 | 161.93 6.375 | 30 | DCK30A | LONG |
| 2-55-A0118 | 2 | 34.93-16 1.375 | N/A | 150.00 5.906 | N/A | DCK30A | SEMI FINISHED SLEEVE BUTT SIZE "M" = 65mm x 50mm |

Alternate splined dust cap kit = **DCK31B**



1310

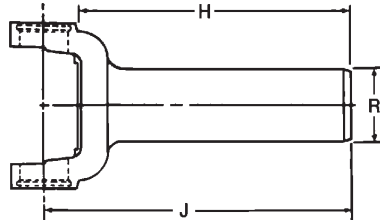
SLIP YOKE BOOT

| PART No. | LENGTH A | MAJOR I.D. B | MINOR I.D. C | COMMENTS |
|-----------|-----------------|----------------|----------------|----------|
| 94-GB3872 | 130.00 5.118 | 50.80 2.000 | 41.30 1.625 | |

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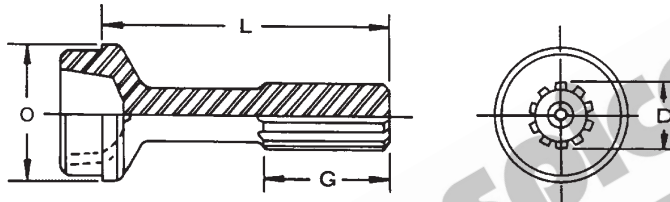
1310 HARDY SPICER



1310 REVERSE SLIP

| PART No. | SPLINE O.D. & No. | GROUND SLEEVE R | LENGTH OF HOLE H | C/L TO END OF SPLINE J | COMMENTS |
|------------|-------------------|-----------------|------------------|------------------------|--|
| 2-3-A3571 | 34.93-10 1.375 | 44.00 1.732 | | 75.00 2.953 | SLEEVE IS TURNED ONLY HAMILTON JET APPLICATIONS |
| 2-3-1331X | 29.70-16 1.170 | 38.10 1.500 | | 123.80 4.875 | EARLY T10, POWER GLIDE |
| 2-3-6081X | 30.22-27 1.190 | 38.10 1.500 | | 138.90 5.470 | T700, TRIMATIC, POWER GLIDE, HOLDEN 3 & 4 SPD |
| 2-3-8251X | 30.98-28 1.220 | 38.10 1.500 | | 165.10 6.500 | FORD C4, TOPLOADER |
| 2-3-A3678 | 33.68-30 1.326 | 42.78 1.684 | 148.00 5.827 | 183.00 7.205 | CHRYSLER/DODGE 727 |
| 2-3-14001X | 32.62-30 1.284 | 41.95 1.656 | | 156.50 6.161 | COMMODORE VL TURBO MANUAL NISSAN 300ZX TURBO |
| 2-3-15631X | 35.10-31 1.390 | 42.80 1.684 | | 177.80 7.000 | FORD FMX, C6, C10 |

OTHER REVERSE SLIP YOKES ALSO AVAILABLE ON REQUEST



1310 STUB

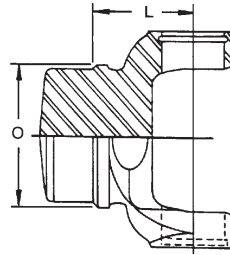
| PART No. | SPLINE DIA. & No. D | SPLINE TYPE | LENGTH OF SPLINE G | END OF SPLINE TO POINT OF WELD L | BUTT TYPE: | | TUBE O.D. & THICKNESS O | TUBE PART No. | COMMENTS |
|--------------|------------------------|-------------|-----------------------|-------------------------------------|---------------------------------|-------------------------|-------------------------------|---------------|-------------|
| | | | | | HC = HARDY COATED ST = STEEL | H = HOLLOW S = SOLID | | | |
| 2-42-A1331 | 34.93-16 1.375 | HC | 58.00 2.280 | 168.00 6.610 | S | | 63.50 x 2.41 2.500 x 0.095 | 2013-0000 | MEDIUM |
| K2-42-GB2701 | 34.93-16 1.375 | HC | 58.00 2.280 | 129.00 5.079 | H | | 50.80 x 2.41 2.000 x 0.095 | 1613-0000 | STANDARD |
| K2-42-GB2721 | 34.93-16 1.375 | HC | 58.00 2.280 | 129.00 5.079 | H | | 63.50 x 2.41 2.500 x 0.095 | 2013-0000 | |
| 2-40-1851 | 34.93-16 1.375 | HC | 57.15 2.250 | 191.29 7.531 | H | | 63.50 x 2.11 2.500 x 0.083 | 2014-0000 | LONG |
| 2-40-1221 | 34.93-16 1.375 | HC | 57.15 2.250 | 163.53 6.438 | H | | 76.20 x 1.65 3.000 x 0.065 | 2416-0000 | |
| 2-42-300 | 34.93-16 1.375 | S | 300.00 11.811 | | | | | | SPLINED BAR |

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HARDY SPICER 1310

BUTT TYPE:
H=HOLLOW
S=SOLID



1310

WELD YOKE

| PART No. | C/LINE TO POINT OF WELD L | TUBE O.D. & WALL THICKNESS O | TUBE PART No. | BUTT TYPE | MAX. ANGLE | COMMENTS |
|-------------|------------------------------|---------------------------------|---------------|-----------|------------|----------|
| 2-26-GB1417 | 42.00 1.653 | 50.80 x 2.41 2.000 x 0.095 | 1613-0000 | H | 20 | |
| 2-28-357 | 42.00 1.653 | 50.80 x 2.11 2.000 x 0.083 | | H | 20 | |
| 2-26-2604# | 42.00 1.653 | 50.00 x 3.00 1.968 x 0.118 | 50X3MM | H | 20 | |
| 2-26-A1727 | 47.00 | 63.50 x 2.41 2.500 x 0.095 | 2013-0000 | H | 20 | |
| 2-28-367 | 46.83 1.844 | 63.50 x 2.11 2.500 x 0.083 | 2014-0000 | H | 30 | |
| 2-26-GB2917 | 55.00 2.165 | 69.85 x 1.65 2.750 x 0.065 | 2216-0000 | H | 30 | |
| 2-28-307 | 55.00 2.165 | 69.85 x 1.65 2.750 x 0.065 | 2216-0000 | S | 30 | |
| 2-28-327 | 42.85 1.687 | 76.20 x 1.65 3.000 x 0.065 | 2416-0000 | H | 20 | |
| 2-28-557 | 42.85 1.687 | 82.55 x 1.65 3.250 x 0.065 | 2615-0000 | H | 21.5 | |
| 2-28-397 | 42.85 1.687 | 88.90 x 1.65 3.500 x 0.065 | 2816-0000 | H | 21.5 | |

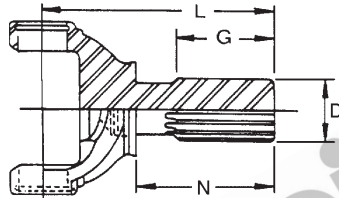
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Indent Only

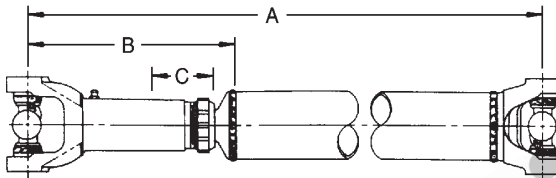
1310 HARDY SPICER

SPLINE TYPE:
 HC = HARDY COATED
 ST = STEEL



1310 STUB YOKE

| PART No. | SPLINE DIA. & No. | LENGTH OF SPLINE | C/LINE TO END OF SPLINE | SHOULDER TO END OF SPLINE | SPLINE TYPE | MAX. ANGLE | COMMENTS |
|------------------|-------------------|------------------|-------------------------|---------------------------|-------------|------------|----------|
| | D | G | L | N | | | |
| 2-82-21 | 34.93-16 1.375 | 57.15 2.250 | 134.94 5.313 | 94.46 3.719 | HC | 20 | |
| 2-82-A111 | 34.93-16 1.375 | 51.00 2.008 | 167.00 6.575 | 108.00 4.250 | HC | 30 | |
| 2-82-424 | 34.93-16 1.375 | 60.00 2.362 | 170.00 6.693 | 118.00 4.646 | HC | | |



1310 TUBULAR TYPE ASSEMBLY CHART

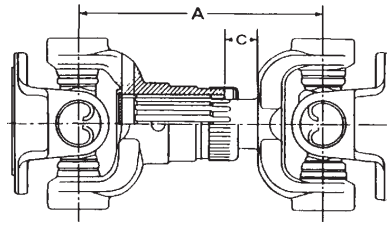
| MINIMUM TUBE LENGTH = 41.1mm (1.62") | | | | | | | |
|---|---------------------|----------------------------------|-----------------|-----------------------------------|--------------------|---------------------|-----------------------------------|
| SLIP YOKE FEMALE PART No. | STUB MALE PART No. | C/LINE TO POINT OF WELD CLOSED B | TOTAL SLIP C | CLOSED LENGTH C/L TO C/L U.J.'s A | WELD YOKE | MAX. ANGLE OF ASSY. | TUBE PART No. & SIZE |
| 2-3-A670 | K2-42-GB2701 | 156.00 6.142 | 51.00 2.008 | 246.10 9.690 | 2-26-GB1417 | 20 | 1613-0000 2.000 x 0.095 |
| 2-3-A670 See Note | K2-42-GB2721 | 156.00 6.142 | 51.00 2.008 | 246.10 9.690 | 2-26-A1727 | 20 | 2013-0000 2.500 x 0.095 |
| 2-3-5221KX | 2-42-A1331 | 206.00 8.110 | 80.00 3.150 | 289.10 11.380 | 2-26-A1727 | 20 | 2013-0000 2.500 x 0.095 |
| 2-3-5821KX Machine butt to 2.50" x 0.095" | 2-40-1851 | 230.00 9.050 | 100.00 3.940 | 315.00 12.400 | 2-26-A1727 | 20 | 2013-0000 2.500 X 0.095 |

Note : Also available as Unwelded Shaft **1310-PSA-1500** complete with 2-2-329 Flanges

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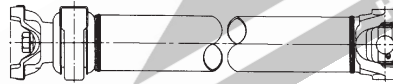
HARDY SPICER 1310



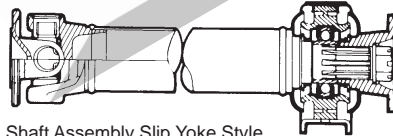
1310 SHORT COUPLED ASSEMBLY CHART

| SLIP YOKE FEMALE PART No. | STUB YOKE MALE PART No. | TOTAL SLIP C | MIN. C/L TO C/L U.J.'s CLOSED A | MAX. ANGLE OF ASSY. 20 | COMMENTS |
|----------------------------|-------------------------|----------------|---------------------------------|------------------------|--|
| 2-3-A560 | 2-82-A111 | 53.00 2.090 | 182.00 7.170 | 20 | |
| 2-3-A670 * OR 2-3-A560* | 2-82-21 | 39.30 1.470 | 159.80 6.290 | 20 | * Shorten Slip Yoke to 119.5mm (4.70") |
| 2-3-A670 | 2-82-424 | 50.00 1.970 | 192.00 7.560 | | |

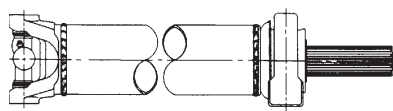
Shaft Assembly End Yoke Style



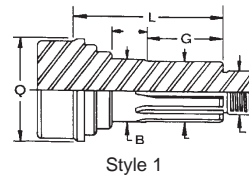
Companion Flange Style



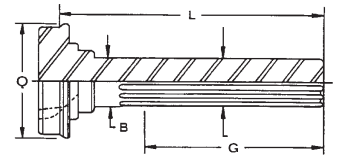
Shaft Assembly Slip Yoke Style



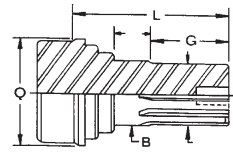
Midship Stubs



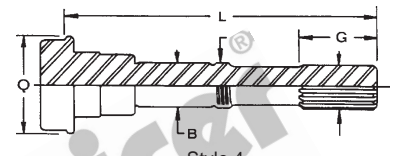
Style 1



Style 3



Style 2



Style 4

1310 CENTRE BEARING ASSEMBLY

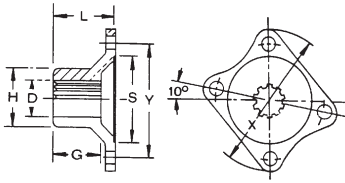
| MIDSHIP STUB SHAFT PART No. | S T Y L E | SPLINE DIA. & No. | LENGTH OF SPLINE G | END OF SPLINE TO POINT OF WELD L | TUBE PART No. & SIZE Q | BEARING I.D. B | CENTRE BEARING PART No. | SLIP YOKE/ COMPANION FLANGE/ END YOKE | COMMENTS |
|-----------------------------|-----------|-------------------|--------------------|----------------------------------|----------------------------|----------------|-------------------------|---------------------------------------|-------------------------------------|
| 3-53-1351 | 3 | 34.93-16 1.375 | 126.24 4.970 | 205.50 8.690 | 2.500 x 0.083 | 35.00 1.378 | 210088-1X or 211187X | 2-3-A670 SLIP YOKE | HARDY COATED USES DUST CAP DCK31B |
| 2-57-GB1441 | 1 | 34.93-10 1.375 | 36.00 1.417 | 91.50 3.602 | 2.500 x 0.065 | 35.00 1.378 | 210088-1X | 2-1-GB2831 C/FLANGE | NUT 94-GB2201 WASHER 510-2400 |
| 2-57-GB1441 | 1 | 34.93-10 1.375 | 36.00 1.417 | 91.50 3.602 | 2.500 x 0.065 | 35.00 1.378 | 210088-1X | *2-4-2671 END YOKE | NUT 94-GB2201 WASHER 510-2400 |
| 2-57-3900 | 2 | 25.40-23 1.000 | | 92.50 3.634 | 1613-0000 2.000 x 0.095 | 30.00 1.181 | FD-30-5210 | 2-4-4100 | MS STUB SUPPLIED WITH BOLT & WASHER |
| 2-57-4301 | 2 | 25.40-23 1.000 | | 111.30 4.382 | 2416-0000 3.000 x 0.065 | 30.00 1.181 | FD-30-5210 | 2-4-4100 | MS STUB SUPPLIED WITH BOLT & WASHER |

*2-4-2671 END YOKE REQUIRES SHORTENING BY 8MM FOR CORRECT NUT FITMENT.

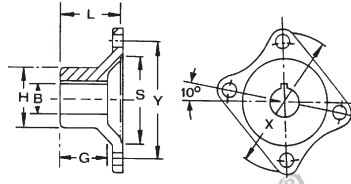
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1310 HARDY SPICER



CIRCULAR TYPE - SPLINED HOLE



CIRCULAR TYPE - ROUND HOLE

1310 COMPANION FLANGE

| PART No. | HOLE/ SPLINE O.D. & No. D | GROUND HUB O.D. H | FLANGE FACE TO END OF HUB L | LENGTH THRU HOLE G | BOLT HOLE DIA. & No. | P.C.D. Y | SPIGOT DIA. S | FLANGE O.D. X | BOLT HOLE PATTERN | NOTES |
|------------------------|---------------------------------------|----------------------------|---|-----------------------------|-------------------------------|-----------------|---------------------|---------------------|-------------------------|--|
| | | | | | | | | | | |
| K2-1-A0413* | 12.70 0.500 | 63.50 2.500 | 62.00 2.441 | 59.00 2.322 | 9.78x4 0.385 | 79.37 3.125 | F-60.32 F-2.375 | 95.00 3.740 | 60.80x51.02 | ROUND HOLE TYPE |
| >2-1-A1581 | 34.93-10 1.375 | 66.00 2.598 | 50.00 1.969 | 34.00 1.339 | 11.45x4 0.451 | 107.95 4.250 | M-79.38 M-3.125 | 126.00 4.961 | EQUALLY SPACED | SPLINED HOLE TYPE |
| >2-1-A2289** | 34.93-10 1.375 | 45.00 1.772 | 59.00 2.323 | 38.10 1.500 | Nil | Nil | Nil | 134.00 5.276 | Nil | SPLINED HOLE TYPE |
| 2-1-GB2831 | 34.93-10 1.375 | 52.40 2.062 | 60.50 2.382 | 36.80 1.449 | 9.78x4 0.385 | 79.37 3.125 | F-60.32 F-2.375 | 95.00 3.74 | 60.8x51.02 | SPLINED HOLE TYPE FITS 2-57-GB1441 |

* = Hub machined only

** = Semi Finished

> = While stock lasts suits 2-57-A1811 only (N.L.A.)

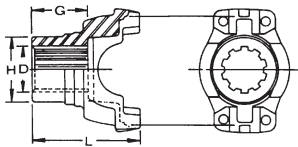


Fig 1

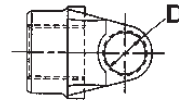
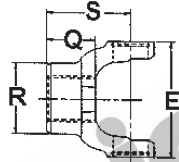


Fig 2



1310 END YOKE - SPLINED

| SPLINED HOLE | | | | | | | |
|------------------------|------------------------------|----------------------------|-----------------------------|--------------------|----------------|-----|------------------------------------|
| PART No. | SPLINE O.D. & No. D | GROUND HUB O.D. H | LENGTH OF OF HUB G | C/L TO END L | JOINT ANGLE | FIG | COMMENTS |
| 2-4-2671 | 34.93-10 1.375 | 52.40 2.063 | 44.50 1.750 | 81.76 3.219 | 21 | 1 | U-BOLT KIT TO SUIT PART No. 102 |
| 2-4-1741* | 31.75-14 1.250 | 53.98 2.125 | 38.10 1.500 | 65.07 2.562 | 17 | 1 | HYDRAULIC PUMP APPLICATIONS |
| 2-4-4100 | 25.40-23 1.000 | 36.00 1.417 | 45.90 1.807 | 80.20 3.157 | 17 | 2 | TRANSIT |
| 2-4-4921* | 25.40-15 1.000 | 53.85 2.120 | 37.34 1.470 | 63.50 2.500 | 20 | 2 | HYDRAULIC PUMP APPLICATIONS |
| 2-4-3331 | 22.22-13 0.875 | 50.80 2.000 | 39.80 1.567 | 65.07 2.562 | 30 | 2 | HYDRAULIC PUMP APPLICATIONS |
| 2-4-3104-28 | 31.10-28 1.229 | 46.00 1.811 | 61.60 2.425 | 102.40 4.031 | | 1 | 9" DIFF YOKE - 27mm CAP |
| 2-4-3104-06 | 31.10-28 1.229 | 46.00 1.811 | 61.60 2.425 | 102.40 4.031 | | 1 | 9" DIFF YOKE - 28.58mm CAP |
| 2-4-3104-06LONG | 31.10-28 1.229 | 46.00 1.811 | 61.60 2.425 | 127.78 5.031 | | 1 | 9" DIFF YOKE - 28.58mm CAP |

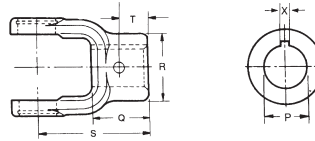
*INDENT ITEM

OTHER END YOKES ALSO AVAILABLE ON REQUEST

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HARDY SPICER 1310

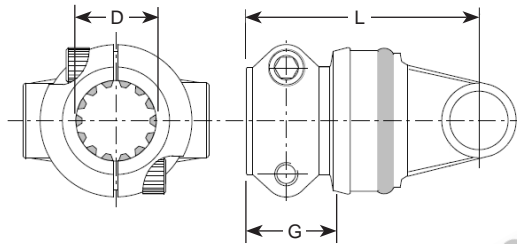


1310

END YOKE - FULL ROUND

ROUND HOLE

| PART No. | BORE & KEY P x X | HUB O.D. R | LENGTH OF HUB Q | C/L TO END OF HUB S | JOINT ANGLE | END OF HUBS TO C/L OF SET SCREW HOLE T | COMMENTS |
|----------|-------------------------------|----------------|--------------------|------------------------|-------------|---|----------|
| 2-4-583 | 22.49 x 6.35 0.875 x 0.250 | 53.98 2.125 | 41.28 1.625 | 65.07 2.562 | 17 | 15.87 0.625 | |
| 2-4-473 | 25.40 x 6.35 1.000 x 0.250 | 53.98 2.125 | 41.28 1.625 | 65.07 2.562 | 17 | 15.87 0.625 | |
| 2-4-503 | 28.58 x 6.35 1.125 x 0.250 | 53.98 2.125 | 41.28 1.625 | 65.07 2.562 | 17 | 15.87 0.625 | |
| 2-4-533 | 31.75 x 7.92 1.250 x 0.312 | 53.98 2.125 | 41.28 1.625 | 65.07 2.562 | 17 | 15.87 0.625 | |
| 2-4-1233 | 38.01 x 9.53 1.500 x 0.375 | 53.98 1.125 | 41.28 1.625 | 65.07 2.562 | 17 | 15.87 0.625 | |



1310

CLAMP LOCK END YOKEs

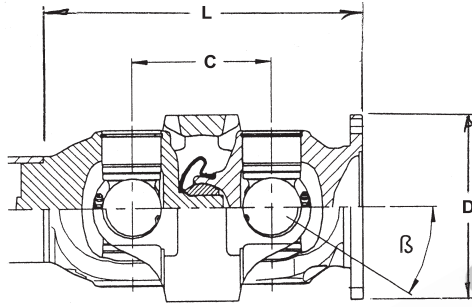
SPLINED HOLE

| PART No. | SPLINE O.D. & No. D | SPLINE TYPE | LENGTH OF SPLINE G | C/L TO END L | COMMENTS |
|-------------|---------------------|--------------|--------------------|-----------------|----------|
| 84/02/13103 | 22.22-13 0.875 | 16/32 SAE B | 48.00 1.890 | 110.00 4.331 | |
| 84/02/13104 | 25.40-15 1.000 | 16/32 SAE BB | 48.00 1.890 | 110.00 4.331 | |
| 84/13104 | 25.40-15 1.000 | 16/32 SAE BB | 48.00 1.890 | 82.50 3.250 | 1 PIECE |
| 84/02/13106 | 31.75-14 1.250 | 12/24 SAE C | 48.00 1.890 | 110.00 4.331 | |
| 84/13106 | 31.75-14 1.250 | 12/24 SAE C | 50.00 1.967 | 82.50 3.250 | 1 PIECE |
| 84/02/13107 | 34.93-21 1.375 | 16/32 | 48.00 1.890 | 110.00 4.410 | |
| 84/13107 | 34.93-21 1.375 | 16/32 | 50.00 1.968 | 82.50 3.250 | 1 PIECE |
| 84/02/13132 | 38.10-17 1.500 | 12/24 SAECC | 45.00 1.772 | 110.00 4.331 | |
| 84/13132 | 38.10-17 1.500 | 12/24 SAECC | 50.00 1.967 | 82.50 3.250 | 1 PIECE |

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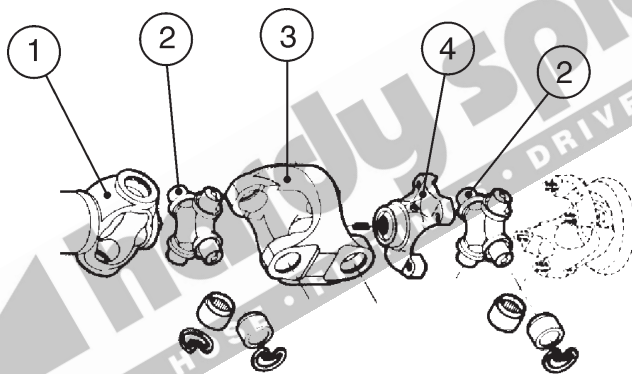
1310 HARDY SPICER



1310 DOUBLE CARDAN ASSEMBLY

| DOUBLE CARDAN ASSEMBLY PART No. | FLANGE DIA. D | C/LINE TO C/LINE C | FLANGE FACE TO WELD L | BOLT HOLE PATTERN | SPIGOT DIA | TUBE SIZE O | MAX ANGLE β | COMMENTS |
|---------------------------------|------------------|-----------------------|--------------------------|--------------------------|------------------------|---------------------------|----------------|---------------------------------|
| 9122867 | 115.00 4.528 | 68.32 2.690 | 150.00 5.906 | 63 x 63 2.478 x 2.478 | 50.80 - F 2.000 - F | 50.8x3MM 2.000 x 0.120 | 30 | JEEP, MUSSO (NON GREASEABLE) |

| COMPLETE ASSEMBLY PART # | WELDED PIN YOKE | U/JOINT KIT | CENTRE YOKE | CENTERING FLANGE YOKE <i>includes ball kit</i> | BALL REPAIR KIT | COMMENTS |
|--------------------------|-----------------|-------------|-------------|---|-----------------|------------------------|
| 9122867 | 2-28-2867X | 5-433-1X | 2-26-427 | 211543X | SCV-82B | SUIT 2 x .120 TUBE |
| | 2-28-2887X | 5-433-1X | 2-26-427 | 211543X | SCV-82B | SUIT 2.500 x .083 TUBE |



1310 DOUBLE CARDAN

| COMPLETE ASSEMBLY PART # | WELDED PIN YOKE | U/JOINT KIT | CENTRE YOKE | CENTERING YOKE <i>includes ball kit</i> | BALL REPAIR KIT | COMMENTS |
|--------------------------|-----------------|-------------|-------------|--|-----------------|------------------------|
| 912747 | 2-28-1747X | 5-433-1X | 2-26-427 | 211355X | SCV-82A | SUIT 2.500 x .083 TUBE |

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HARDY SPICER 1330

C = 26.99
 1.06
 B1 = 92.08
 3.62
 B2 = 70.00
 2.75

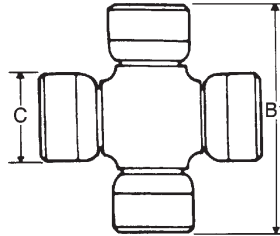


FIG. 1

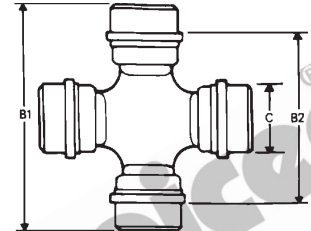


FIG. 2

1330 UNIVERSAL JOINT KIT

| PART No. | LUBE | FIGURE | DESCRIPTION |
|----------|------|--------|---|
| 5-213X | SIDE | 1 | STANDARD |
| RUJ-3002 | SIDE | 2 | C/W 4 SNAP RINGS & 4 CIRCLIPS (ALT. STANDARD) |
| 5-618XD | NIL | 1 | SOLID CROSS |

1330 CONVERSION UNIVERSAL JOINT KIT

Refer to Section B:1 for dimensional data & hardware kits

| PART No. | LUBE | DESCRIPTION |
|----------|------|--|
| 5-212X | | DIFF APPLICATIONS |
| 5-150X | | CONVERSION 1330 28.58MM CAPS - 1310 SERIES |
| RUJ-3000 | | CONVERSION 1330 - 1330 SERIES 28.58MM CAPS |
| 5-633XD | | CONVERSION 1330 - 1330 SERIES 28.58MM CAPS SOLID CROSS |
| 5-134X | | CONVERSION 1330 - 1310 SERIES |
| K5-A537 | | CONVERSION 1330 - 1350 SERIES |
| K5-A541 | | CONVERSION 1330 - 1350 SERIES 28.58MM CAPS |
| 114-596 | | CONVERSION 1330 - 3R SERIES |
| 5-314X | | CONVERSION 1330 - 3C SERIES |

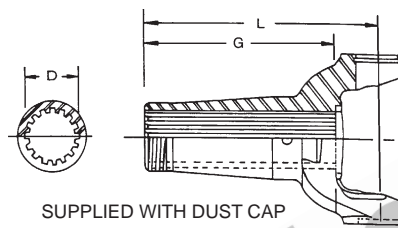


Fig-1

SUPPLIED WITH DUST CAP

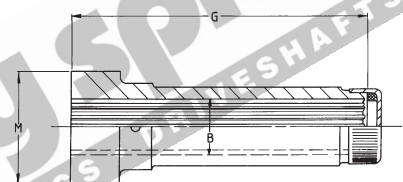


Fig-2

1330 SLIP YOKE

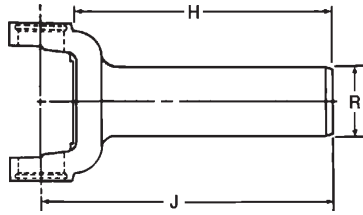
| PART No. | FIG | SPLINE O.D. & No. SPLINE D | C/LINE TO END OF SPLINE L | LENGTH OF SPLINE G | JOINT ANGLE | DUST CAP KIT | COMMENTS |
|------------|-----|----------------------------|---------------------------|--------------------|-------------|--------------|--|
| 2-3-7481KX | 1 | 34.93-16 1.375 | 190.50 7.500 | 166.00 6.535 | 19 | DCK30A | |
| 2-55-A0118 | 2 | 34.93-16 1.375 | N/A | 150.00 5.906 | N/A | DCK30A | SEMI FINISHED SLEEVE BUTT SIZE "M" = 65mm x 50mm |

ALTERNATIVE SPLINED DUST CAP KIT = DCK31B

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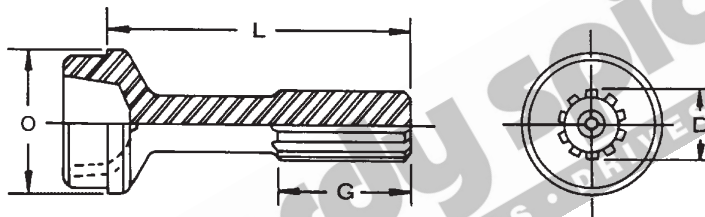
1330 HARDY SPICER



1330 REVERSE SLIP

| PART No. | SPLINE O.D. & No. | GROUND SLEEVE | | LENGTH OF HOLE | C/L TO END OF SPLINE | COMMENTS |
|-------------|-------------------|----------------|-----------------|-----------------|-------------------------|----------|
| | | R | H | | | |
| 2-3-12051X# | 30.23-27 1.190 | 38.10 1.500 | 133.60 5.260 | 171.70 6.760 | HOLDEN, GM | |
| 2-3-5981X | 30.96-28 1.219 | 38.10 1.500 | 126.52 4.981 | 150.01 5.906 | FORD C4, TOPLOADER | |
| 2-3-6041X | 35.33-31 1.391 | 42.88 1.688 | 128.91 5.075 | 152.40 6.000 | FORD C6, C10, FMX | |
| 2-3-10201X | 35.33-31 1.391 | 47.88 1.885 | 128.91 5.075 | 177.80 7.000 | FORD C6, FMX (US TRUCK) | |

INDENT PART. OTHER REVERSE SLIP YOKES ALSO AVAILABLE ON REQUEST



1330 STUB

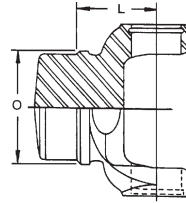
| SPLINE TYPE: | | HC = HARDY COATED ST = STEEL | | | BUTT TYPE: | | H = HOLLOW S = SOLID | | COMMENTS |
|--------------|-------------------|---------------------------------|------------------|--------------------------------|------------|-------------------------------|-------------------------|----------|----------|
| PART No. | SPLINE DIA. & No. | SPLINE TYPE | LENGTH OF SPLINE | END OF SPLINE TO POINT OF WELD | BUTT TYPE | TUBE O.D. & THICKNESS | TUBE PART No. | | |
| | D | | G | L | | O | | | |
| 2-40-1851 | 34.93-16 1.375 | HC | 57.15 2.250 | 191.29 7.531 | S | 63.50 x 2.41 2.500 x 0.095 | 2013-0000 | LONG | |
| 2-40-1221 | 34.93-16 1.375 | HC | 57.15 2.250 | 163.53 6.438 | S | 76.20 x 1.65 3.000 x 0.065 | 2416-0000 | STANDARD | |

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HARDY SPICER 1330

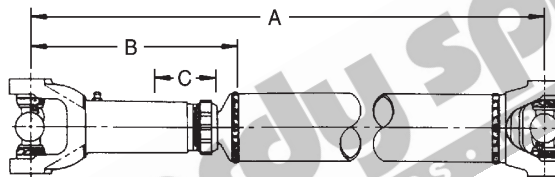
BUTT TYPE:
H=HOLLOW
S=SOLID



1330

WELD YOKE

| PART No. | C/LINE TO POINT OF WELD L | TUBE O.D. & WALL THICKNESS O | TUBE PART No. | BUTT TYPE | MAX. ANGLE | COMMENTS |
|-----------|------------------------------|---------------------------------|---------------|-----------|------------|----------|
| 2-28-1177 | 43.66 1.719 | 76.20 x 1.65 3.000 x 0.065 | 2416-0000 | H | 25 | |
| 2-28-1697 | 43.66 1.719 | 76.20 x 2.11 3.000 x 0.083 | 2414-0000 | H | 25 | |
| 2-28-1707 | 43.66 1.719 | 63.50 x 2.11 2.500 x 0.083 | - | H | 25 | |
| 2-28-1977 | 46.02 1.812 | 88.90 x 1.65 3.500 x 0.065 | 2816-0000 | H | - | |



1330

TUBULAR TYPE ASSEMBLY CHART

| MINIMUM TUBE LENGTH = 41.1mm (1.62") | | | | | | | |
|--------------------------------------|--------------------|-------------------------------------|-----------------|--------------------------------------|-----------|---------------------|----------------------------|
| SLIP YOKE FEMALE PART No. | STUB MALE PART No. | C/LINE TO POINT OF WELD CLOSED B | TOTAL SLIP C | CLOSED LENGTH C/L TO C/L U.J.'s A | WELD YOKE | MAX. ANGLE OF ASSY. | TUBE PART No. & SIZE |
| 2-3-7481KX | 2-40-1221 | 215.80 8.500 | 108.80 4.280 | 301.46 11.860 | 2-28-1177 | 25 | 2416-0000 3.000 x 0.065 |

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1330 HARDY SPICER

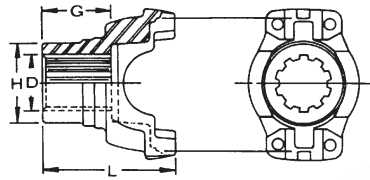
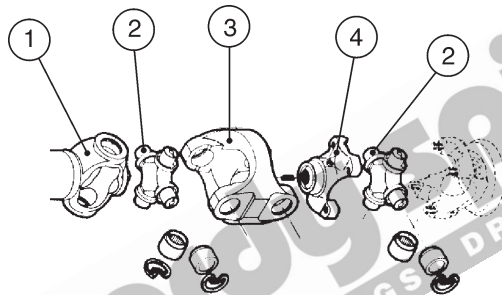


Fig 1

1330 END YOKE - SPLINED

| SPLINED HOLE | | | | | | | |
|-----------------|---------------------|-------------------|--------------------|-----------------|-------------|-----|----------------------------|
| PART No. | SPLINE O.D. & No. D | GROUND HUB O.D. H | LENGTH OF OF HUB G | C/L TO END L | JOINT ANGLE | FIG | COMMENTS |
| 2-4-3304-06 | 31.10-28 1.229 | 46.00 1.811 | 61.60 2.425 | 102.40 4.031 | | 1 | 9" DIFF YOKE - 28.58mm CAP |
| 2-4-3304-06LONG | 31.10-28 1.229 | 46.00 1.811 | 61.60 2.425 | 127.78 5.031 | | 1 | 9" DIFF YOKE - 28.58mm CAP |



1330 DOUBLE CARDAN

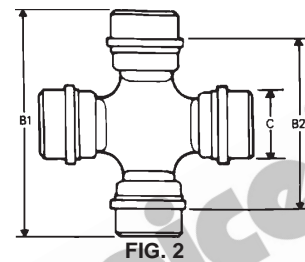
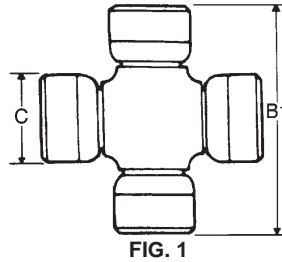
| COMPLETE ASSEMBLY PART # | WELDED PIN YOKE | U/JOINT KIT | CENTRE YOKE | CENTERING YOKE <i>includes ball kit</i> | BALL REPAIR KIT | COMMENTS |
|--------------------------|-----------------|---------------|---------------|--|-----------------|------------------------|
| 910811 | 1 2-28-2137X | 2 RUJ-3002 | 3 2-26-407 | 4 211179X | SCV-82A | SUIT 2.500 x .083 TUBE |

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HARDY SPICER 1350

C = 30.16
1.18
B1 = 92.08
3.62
B2 = 65.07
2.56



1350 UNIVERSAL JOINT KIT

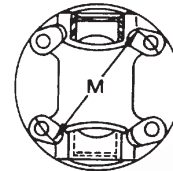
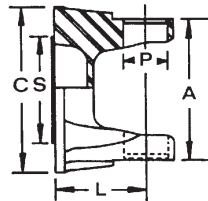
| PART No. | LUBE | FIGURE | DESCRIPTION |
|-----------|------|--------|--|
| 5-178X | SIDE | 1 | STANDARD JOINT |
| 5-178-4X | CAP | 1 | 4 GREASE NIPPLES |
| 5-178XHD | NONE | 1 | HEAVY-DUTY NON LUBE WITH THRUST WASHERS |
| 5-178XLHD | SIDE | 1 | HEAVY-DUTY WITH LUBE WITH THRUST WASHERS |
| 5-627XD | NONE | 1 | HEAVY-DUTY SOLID CROSS |
| RUJ-3001 | SIDE | 2 | C/W 4 SNAP RINGS & 4 CIRCLIPS |

1350 CONVERSION UNIVERSAL JOINT KIT

Refer to Section B:1 for dimensional data & hardware kits

| PART No. | LUBE | DESCRIPTION |
|----------|------|-------------------------------|
| K5-A537 | | CONVERSION 1350 - 1330 SERIES |
| K5-A541 | | CONVERSION 1350 - 1330 SERIES |
| 5-460X | | CONVERSION 1350 - 1310 SERIES |

A - 98.42
3.87
P - 30.16
1.18



1350 FLANGE YOKE

| PART No. | FLANGE DIA. | C/L OF U.J. TO FACE | SPIGOT DIA | MAX. STATIC ANGLE | P.C.D. | BOLT HOLE PATTERN | No. HOLES | HOLE DIA | DESCRIPTION |
|--------------|-----------------|---------------------|-------------------------|-------------------|-----------------|--------------------------------|-----------|----------------|-------------------------|
| | C | L | M=MALE F=FEMALE S | | M | | | | |
| 3-2-119 | 115.00 4.527 | 40.00 1.574 | M-69.85 M-2.750 | 20 | 95.25 3.750 | 61.23 x 72.96 2.410 x 2.872 | 4 | 11.11 0.438 | STANDARD |
| K3-2-GB4309 | 100.00 3.937 | 55.00 2.165 | F-57.00 F-2.244 | 20 | - | - | - | - | SEMI FINISH 100mm OD |
| K3-2-GB4339 | 120.00 4.724 | 70.00 2.756 | F-75.00 F-2.952 | 20 | - | - | - | - | SEMI FINISH 120mm OD |
| K3-2-GB4319 | 100.00 3.937 | 55.00 2.165 | F-57.00 F-2.244 | 20 | 84.00 3.307 | EQUAL | 6 | 8.00 0.315 | METRIC DIN 100 |
| K3-2-GB4329# | 120.00 4.724 | 70.00 2.755 | F-75.00 F-2.952 | 20 | 101.5 4.00 | EQUAL | 8 | 10.00 0.438 | METRIC DIN 120 |
| 3-2-300 | 130.00 5.117 | 45.00 1.771 | F-50.80 F-2.000 | 20 | 107.95 4.250 | 76.00 x 76.00 2.992 x 2.992 | 4 | 12.75 0.500 | TRANSIT REAR |
| 3-2-301 | 130.00 5.118 | 45.00 1.771 | F-17.0 HOLE F-0.669 | 20 | 107.95 4.250 | 76.00 x 76.00 2.992 x 2.992 | 4 | 12.75 0.500 | TRANSIT FRONT |
| 3-2-120SF | 120.00 4.724 | 40.00 1.574 | M-80.0 Nominal 3.150 | 20 | - | - | - | - | SEMI FINISHED STEEL |
| 3-2-352-75M | | 40.00 1.574 | M-75.00 M-2.952 | 20 | 100.00 3.937 | 64 x 77 2.520 x 3.031 | 4 | 12.00 0.472 | JAP PTO |

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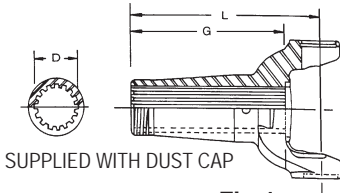


Fig-1

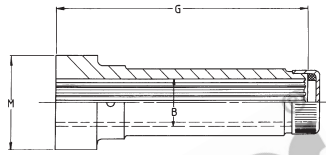
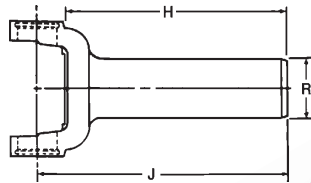


Fig-2

1350 SLIP YOKE

| PART No. | FIG | SPLINE O.D. & No. SPLINE D | C/LINE TO END OF L | LENGTH OF SPLINE G | JOINT ANGLE | DUST CAP KITS | COMMENTS |
|------------|-----|----------------------------|--------------------|--------------------|-------------|---------------|--|
| K3-3-A780 | 1 | 34.93-16 1.375 | 148.00 5.827 | 120.00 4.724 | 20 | DCK31B | FOR MID SHIP STUB APPS. |
| 3-3-388KX | 1 | 38.09-16 1.500 | 100.03 3.938 | 77.80 3.063 | 20 | DCK35A | |
| 3-3-598KX | 1 | 38.09-16 1.500 | 147.63 5.812 | 120.00 4.724 | 20 | DCK35A | |
| K3-3-A860 | 1 | 38.09-16 1.500 | 187.00 7.360 | 159.00 6.260 | | DCK35A | |
| K3-3-2801X | 1 | 38.09-15 1.500 | 187.00 7.360 | 157.00 6.181 | 30 | 211158X | 15 SPLINE BASED ON 16 |
| 3-55-A0128 | 2 | 38.09-16 1.500 | N/A | 178.00 7.008 | | DCK35A | BUTT SIZE "M" = 89mm x 38mm SEMI FINISHED SLEEVE |

ALTERNATIVE SPLINED DUST CAP KIT= DCK35B



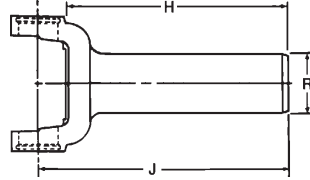
1350 REVERSE SLIP

| PART No. | SPLINE O.D. & No. | GROUND SLEEVE R | LENGTH OF HOLE H | C/L TO END OF SPLINE J | COMMENTS |
|------------------------|-------------------|-----------------|------------------|------------------------|-------------------------------------|
| 3-3-3558 | 30.48-23 1.200 | 39.95 1.573 | 120.00 4.724 | 155.00 6.102 | TOYOTA SUPRA TURBO |
| 3-3-4281X | 30.23-27 1.190 | 38.10 1.500 | 120.00 4.724 | 154.00 6.060 | GM POWERGLIDE |
| 3-3-3158 | 30.98-28 1.220 | 38.10 1.500 | 120.00 4.724 | 155.00 6.102 | C4, FORD 28 SPLINE |
| 3-3-3738 | 32.61-30 1.284 | 41.95 1.652 | 118.00 4.646 | 155.00 6.102 | NISSAN TURBO, 300ZX, SKYLINE |
| 3-3-3851X | 35.33-31 1.391 | 42.88 1.685 | 125.00 4.921 | 164.00 6.457 | FMX, C6, C10, FORD TOPLOADER |
| K3-3-A3658 INVOLUTE | 35.50-32 1.397 | 47.83 1.885 | | 200.00 7.874 | SUITS SUPER T10. HOLE IN WELSH PLUG |
| K3-3-A3698 | 35.50-32 1.397 | 47.83 1.883 | | 200.00 7.874 | SUITS TURBO 400 - COUNTER BORED |

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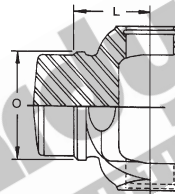
HARDY SPICER 1350



1350 PERFORMANCE SLIP YOKES

| PART No. | SPLINE O.D. & No. | GROUND SLEEVE | LENGTH OF HOLE | C/L TO END OF SPLINE | COMMENTS |
|-------------------|-------------------|----------------|-----------------|----------------------|--|
| | | R | H | J | |
| 3-3-U1662 | 30.23-27 1.190 | 38.10 1.500 | 122.00 4.803 | 154.00 6.060 | POWERGLIDE, TURBO 350, 4L60E, MUNCIE STREET SERIES |
| 3-3-U1667 | 30.23-27 1.190 | 38.10 1.500 | 114.00 4.488 | 140.00 5.512 | POWERGLIDE, TURBO 350, 4L60E, MUNCIE STRANGE 17-4 HIGH TENSILE STAINLESS STEEL |
| 3-3-U1667N | 30.23-27 1.190 | 38.10 1.500 | 114.00 4.488 | 140.00 5.512 | HARDENED YOKE FOR ROLLER BEARING P/GLIDE STRANGE 17-4 HIGH TENSILE STAINLESS STEEL |
| 3-3-U1668 | 30.98-28 1.220 | 38.10 1.500 | 122.00 4.803 | 148.00 5.826 | C4, T5, B/W S/RAIL, TREMEC 3550 STRANGE 17-4 HIGH TENSILE STAINLESS STEEL |
| 3-3-U1666 | 33.68-30 1.326 | 42.78 1.684 | 128.00 5.039 | 154.00 6.063 | CHRYSLER, DOUG NASH TRANSMISSIONS STRANGE 17-4 HIGH TENSILE STAINLESS STEEL |
| 3-3-U1669 | 35.33-31 1.391 | 42.88 1.685 | 128.00 5.039 | 154.00 6.063 | FMX, C6, C10, T45, FORD TOPLOADER STRANGE 17-4 HIGH TENSILE STAINLESS STEEL |
| 3-3-U1650 | 35.50-32 1.397 | 47.83 1.885 | 110.00 4.331 | 140.00 5.512 | TURBO 400, 4L80E, SUPER T10 STREET SERIES |
| 3-3-U1664 | 35.50-32 1.397 | 47.83 1.885 | 114.00 4.488 | 140.00 5.512 | TURBO 400, 4L80E, SUPER T10 STRANGE 17-4 HIGH TENSILE STAINLESS STEEL |
| 3-3-U1664N | 35.50-32 1.397 | 47.83 1.883 | 114.00 4.488 | 140.00 5.512 | HARDENED YOKE FOR ROLLER BEARING TURBO 400 STRANGE 17-4 HIGH TENSILE STAINLESS STEEL |

BUTT TYPE:
H=HOLLOW
S=SOLID



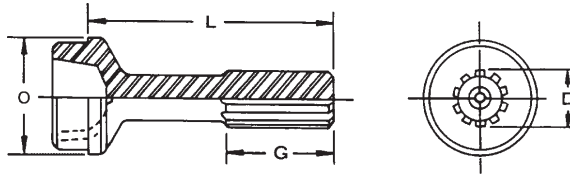
1350 PERFORMANCE WELD YOKES

| PART No. | C/LINE TO POINT OF WELD L | TUBE O.D. & WALL THICKNESS O | TUBE PART No. | BUTT TYPE | MAX. ANGLE | COMMENTS |
|-------------------|---------------------------|-------------------------------|--------------------|-----------|------------|---|
| 3-28-U1672 | 57.00 2.244 | 76.20 x 2.11 3.000 x 0.083 | 2414-0000CM | S | | STRANGE 4130 CHROME-MOLY |
| 3-28-U1673 | | 88.90 x 2.11 3.500 x 0.083 | 35-60CM | S | | TUBE IS IN 60" LENGTH ONLY STRANGE 4130 CHROME-MOLY |

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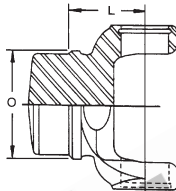
1350 HARDY SPICER



1350 STUB

| SPLINE TYPE: | | | | | BUTT TYPE: | | | |
|---------------------------------|-------------------|-------------|------------------|--------------------------------|-------------------------|-------------------------------|---------------|-------------|
| HC = HARDY COATED ST = STEEL | | | | | H = HOLLOW S = SOLID | | | |
| PART No. | SPLINE DIA. & No. | SPLINE TYPE | LENGTH OF SPLINE | END OF SPLINE TO POINT OF WELD | BUTT TYPE | TUBE O.D. & THICKNESS | TUBE PART No. | COMMENTS |
| | D | | G | L | | O | | |
| K3-42-A451 | 38.09-16 1.500 | HC | 76.20 3.000 | 185.00 7.280 | S | 76.20 x 2.41 3.000 x 0.095 | 2413-0000 | |
| K3-42-GB3081 | 38.09-16 1.500 | HC | 76.20 3.000 | 153.18 6.031 | S | 76.20 x 2.41 3.000 x 0.095 | 2413-0000 | |
| K3-42-A1131 | 38.09-16 1.500 | HC | 65.00 2.560 | 155.00 6.100 | H | 76.20 x 2.41 3.000 x 0.095 | 2413-0000 | STANDARD |
| K3-42-A1151 | 38.09-16 1.500 | HC | 65.00 2.560 | 195.00 7.670 | S | 76.20 x 2.41 3.000 x 0.095 | 2413-0000 | LONG |
| K3-42-GB4301 | 38.09-16 1.500 | HC | 65.00 2.560 | 156.00 6.142 | H | 88.90 x 2.41 3.500 x 0.095 | 2813-0000 | |
| 3-42-300 | 38.09-16 1.500 | ST | 300.00 11.811 | | | | | SPLINED BAR |

BUTT TYPE:
H=HOLLOW
S=SOLID



1350 WELD YOKE

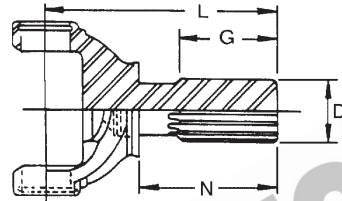
| PART No. | C/LINE TO POINT OF WELD L | TUBE O.D. & WALL THICKNESS O | TUBE PART No. | BUTT TYPE | MAX. ANGLE | COMMENTS |
|--------------|------------------------------|---------------------------------|---------------|-----------|------------|----------|
| K3-26-GB1717 | 50.80 2.000 | 76.20 x 2.41 3.000 x 0.095 | 2413-0000 | H | 20 | STANDARD |
| K3-26-GB1667 | 49.20 1.937 | 63.50 x 2.41 2.500 x 0.095 | 2013-0000 | H | 20 | |
| 3-28-47 | 49.20 1.937 | 63.50 x 2.11 2.500 x 0.083 | 2014-0000 | H | 20 | |
| 3-28-57 | 50.80 2.000 | 76.20 x 2.11 3.000 x 0.083 | 2414-0000 | H | 20 | |
| 3-28-257 | 46.00 1.812 | 88.90 x 1.65 3.500 x 0.065 | 2816-0000 | H | 20 | |

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HARDY SPICER 1350

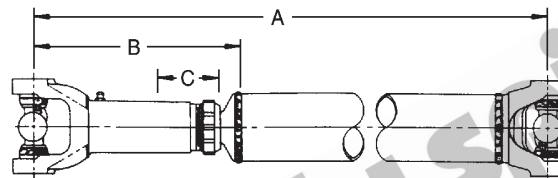
SPLINE TYPE:
 HC = HARDY COATED
 ST = STEEL



1350

STUB YOKE

| PART No. | SPLINE DIA. & No. | LENGTH OF SPLINE | C/LINE TO END OF SPLINE | SHOULDER TO END OF SPLINE | SPLINE TYPE | MAX. ANGLE | COMMENTS |
|----------|-------------------|------------------|-------------------------|---------------------------|-------------|------------|----------|
| | D | G | L | N | | | |
| 3-82-181 | 38.10-16 1.500 | 63.50 2.500 | 173.02 6.812 | 120.65 4.750 | ST | 20 | |
| 3-82-61 | 38.10-16 1.500 | 50.80 2.000 | 131.76 5.188 | 79.38 3.125 | ST | 8 | |



1350

TUBULAR TYPE ASSEMBLY CHART

| MINIMUM TUBE LENGTH = 31.1mm (1.24") | | | | | | | |
|--------------------------------------|--------------------|----------------------------------|----------------|-----------------------------------|--------------|---------------------|----------------------------|
| SLIP YOKE FEMALE PART No. | STUB MALE PART No. | C/LINE TO POINT OF WELD CLOSED B | TOTAL SLIP C | CLOSED LENGTH C/L TO C/L U.J.'s A | WELD YOKE | MAX. ANGLE OF ASSY. | TUBE PART No. & SIZE |
| 3-3-598KX | K3-42-A1131 | 183.00 7.200 | 57.00 2.240 | 265.30 10.440 | K3-26-GB1717 | 20 | 2413-0000 3.000 x 0.095 |
| K3-3-A860 See Note | K3-42-A1151 | 216.00 8.500 | 97.00 3.820 | 305.60 12.030 | K3-26-GB1717 | 20 | 2413-0000 3.000 x 0.095 |

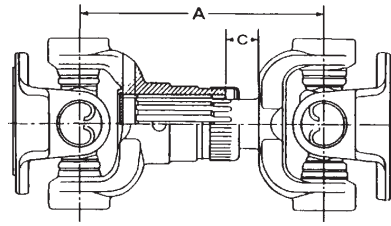
Note : Also available as Unwelded Shaft **1350-PSA-1500** complete with 3-2-119 Flanges

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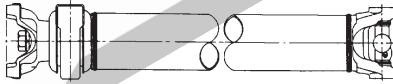
1350 HARDY SPICER



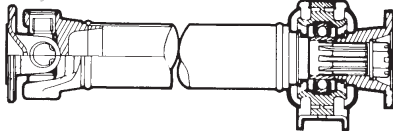
1350 SHORT COUPLED ASSEMBLY CHART

| SLIP YOKE FEMALE PART No. | STUB YOKE MALE PART No. | TOTAL SLIP C | MIN. C/L TO C/L U.J.'s CLOSED A | MAX. ANGLE OF ASSY. B | COMMENTS |
|---------------------------|-------------------------|----------------|---------------------------------|-----------------------|----------|
| 3-3-388KX | 3-82-61 | 19.10 0.750 | 162.10 6.380 | 8 | |
| 3-3-598KX | 3-82-181 | 53.85 2.120 | 203.20 8.000 | 20 | |

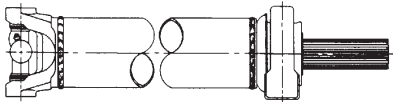
Shaft Assembly End Yoke Style



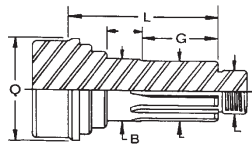
Companion Flange Style



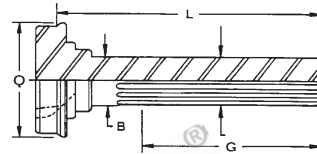
Shaft Assembly Slip Yoke Style



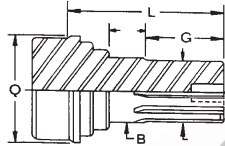
Midship Stubs



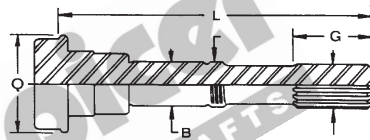
Style 1



Style 3



Style 2



Style 4

1350 CENTRE BEARING ASSEMBLY

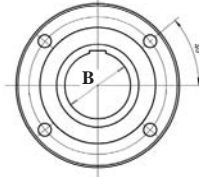
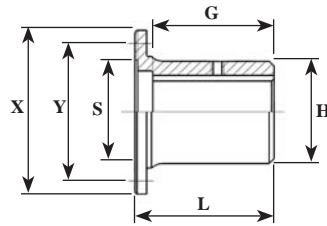
| MIDSHIP STUB SHAFT PART No. | S T Y L E | SPLINE DIA. & No. | LENGTH OF SPLINE G | END OF SPLINE TO POINT OF WELD L | TUBE PART No. & SIZE Q | BEARING I.D. B | CENTRE BEARING PART No. | SLIP YOKE/COMPANION FLANGE/END YOKE | COMMENTS |
|-----------------------------|-----------|-------------------|--------------------|----------------------------------|----------------------------|----------------|-------------------------|-------------------------------------|-------------------------------|
| 3-54-611 | 1 | 34.93-10 1.375 | 42.88 1.688 | 101.60 4.000 | 2414-0000 3.000 x 0.083 | 35.00 1.378 | 210088-1X | 3-4-178X END YOKE | U-BOLT TYPE USE 509-33 NUT |
| 3-53-1551 | 3 | 38.10-15 1.500 | 75.00 2.950 | 242.0 9.520 | 2414-0000 3.000 x 0.083 | 40.00 1.575 | 210866X | 3-3-2801X* | 15 SPLINE BASED ON 16 |
| K3-53-A1411 | 2 | 38.10-10 1.500 | 50.80 2.000 | 105.00 4.134 | 2413-0000 3.000 x 0.095 | 40.00 1.575 | 210391-1X | K3-1-GB6221 C/FLANGE | NUT 509-33 |
| 3-53-1361 | 3 | 34.93-16 1.375 | 126.24 4.97 | 205.50 8.094 | 2414-0000 3.000 x 0.083 | 35.00 1.378 | 210088-1X OR 211187X | K3-3-A780 SLIP YOKE | HARDY COATED |
| 3-53-1371 | 3 | 34.93-16 1.375 | 112.52 4.438 | 179.00 7.64 | 2414-0000 3.000 x 0.083 | | 210088-1X OR 211187X | K3-3-A780 SLIP YOKE | HARDY COATED |

* ORDER DUST CAP SEPARATELY 211158X

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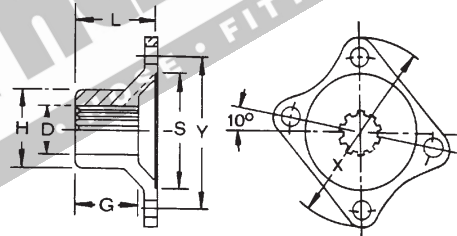
HARDY SPICER 1350



1350 COMPANION FLANGE

CIRCULAR TYPE - ROUND HOLE

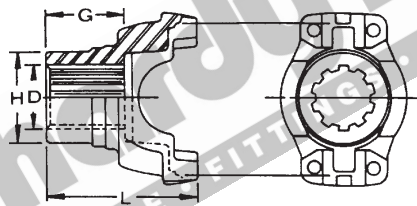
| PART No. | HOLE DIA. | HUB O.D. | MAX. BORE STD KEY | FLANGE FACE TO END OF HUB L | LENGTH THRU HOLE G | BOLT HOLE DIA. & No. | P.C.D. Y | SPIGOT DIA. S | FLANGE O.D. X | BOLT HOLE PATTERN |
|-------------------|----------------|----------------|----------------------------|--------------------------------|-----------------------|----------------------|----------------|--------------------|------------------|--------------------------------|
| K3-1-GB103 | 12.00 0.472 | 76.20 3.000 | 50.8 x 12.7 2.00"x 0.5" | 65.00 2.562 | 50.80 2.000 | 11.2 x 4 0.440 | 95.25 3.750 | F-69.85 F-2.750 | 115.00 4.527 | 61.23 x 72.96 2.410 x 2.872 |



1350 COMPANION FLANGE

RECTANGULAR TYPE - SPLINED HOLE

| PART No. | SPLINE O.D. & No. | HUB O.D. H | FLANGE FACE TO END OF HUB L | LENGTH THRU HOLE G | BOLT HOLE DIA. & No. | P.C.D. Y | SPIGOT DIA. S | FLANGE O.D. X | BOLT HOLE PATTERN | NOTES |
|--------------------|-------------------|----------------|--------------------------------|-----------------------|----------------------|-----------------|--------------------|------------------|----------------------------|------------|
| K3-1-GB6221 | 38.10-10 1.500 | 49.20 1.937 | 68.30 2.689 | 51.00 2.008 | 11.2 x 4 0.440 | 95.25 3.750 | F-69.85 F-2.750 | 118.00 4.527 | 61.23x72.96 2.410x2.872 | |
| 3-1-014 | 38.10-10 1.500 | | 69.00 2.717 | 51.00 2.008 | 10.2 x 4 0.402 | 100.00 3.937 | F-80.00 F-3.150 | 120.00 4.724 | 59 x 81 2.323x3.189 | ISUZU FACE |



1350 END YOKE - HALF ROUND

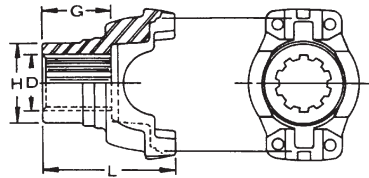
SPLINED HOLE

| PART No. | SPLINE O.D. & No. D | GROUND HUB O.D. H | LENGTH OF HUB G | C/L TO END L | JOINT ANGLE | COMMENTS |
|------------------------|------------------------|----------------------|--------------------|-----------------|-------------|----------------------------|
| 3-4-178X | 34.93-10 1.375 | 44.45 1.750 | 45.24 1.781 | 83.34 3.281 | 20 | U/BOLT KIT TO SUIT 103 |
| 3-4-3504-08 | 31.10-28 1.229 | 46.00 1.811 | 61.60 2.425 | 102.40 4.031 | | 9" DIFF YOKE - 30.16mm CAP |
| 3-4-3504-08LONG | 31.10-28 1.229 | 46.00 1.811 | 61.60 2.425 | 127.78 5.031 | | 9" DIFF YOKE - 30.16mm CAP |

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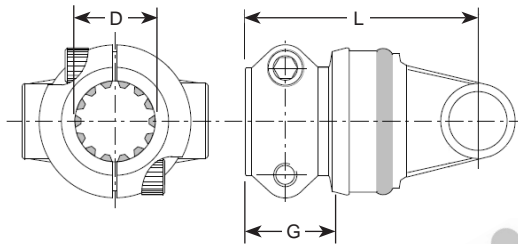
1350 HARDY SPICER



1350 PERFORMANCE END YOKES

| SPLINED HOLE | | | | | | | |
|--------------|---------------------|-------------------|--------------------|-----------------|-------------|-----|--|
| PART No. | SPLINE O.D. & No. D | GROUND HUB O.D. H | LENGTH OF OF HUB G | C/L TO END L | JOINT ANGLE | FIG | COMMENTS |
| 3-4-U1608 | 32.33-29 1.273 | 47.63 1.875 | 39.04 1.537 | 85.73 3.375 | | 1 | SUIT MOPAR 8.75" STREET SERIES STEEL |
| 3-4-U2203 | 31.10-28 1.229 | 46.00 1.811 | 61.60 2.425 | 102.90 4.050 | | 1 | 9" DIFF - STRANGE S/SERIES STREET SERIES STEEL |
| 3-4-U1603 | 31.10-28 1.229 | 46.00 1.811 | 61.60 2.425 | 102.90 4.050 | | 1 | 9" DIFF YOKE 28 SPLINE CHROME-MOLY 4130 |
| 3-4-U1604 | 35.83-35 1.410 | 53.98 2.125 | 53.00 2.087 | 102.90 4.050 | | 1 | 9" DIFF YOKE 35 SPLINE CHROME-MOLY 4130 |

OTHER PERFORMANCE YOKES ARE AVAILABLE ON REQUEST.
TITANIUM AND ALUMINIUM YOKES ALSO AVAILABLE ON REQUEST



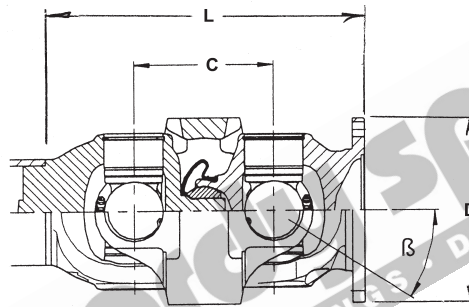
1350 CLAMP LOCK END YOKES

| SPLINED HOLE | | | | | | |
|--------------|---------------------|--------------|--------------------|-----------------|----------|--|
| PART No. | SPLINE O.D. & No. D | SPLINE TYPE | LENGTH OF SPLINE G | C/L TO END L | COMMENTS | |
| 84/02/13506 | 31.75-14 1.250 | 12/24 SAE C | 48.00 1.890 | 112.00 4.410 | | |
| 84/13506 | 31.75-14 1.250 | 12/24 SAE C | 50.00 1.967 | 91.50 3.602 | 1 PIECE | |
| 84/02/13507 | 34.93-21 1.375 | 16/32 | 48.00 1.890 | 112.00 4.410 | | |
| 84/13507 | 34.93-21 1.375 | 16/32 | 50.00 1.968 | 91.50 3.602 | 1 PIECE | |
| 84/02/13532 | 38.10-17 1.500 | 12/24 SAECC | 45.00 1.772 | 112.00 4.410 | | |
| 84/13532 | 38.10-17 1.500 | 12/24 SAECC | 50.00 1.968 | 91.50 3.602 | 1 PIECE | |
| 84/02/13543 | 38.10-23 1.500 | 16/32 | 45.00 1.772 | 112.00 4.410 | | |
| 84/02/13508 | 44.45-13 1.750 | 8/16 SAE D-E | 45.00 1.772 | 112.00 4.410 | | |

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1350

DOUBLE CARDAN ASSEMBLY

| DOUBLE CARDAN ASSEMBLY PART No. | FLANGE DIA. D | C/LINE TO C/LINE C | FLANGE FACE TO WELD L | BOLT HOLE PATTERN | SPIGOT DIA | TUBE SIZE O | COMMENTS |
|---------------------------------|------------------|-----------------------|--------------------------|---------------------------------|------------------------|------------------------------|---------------------|
| | 115.00 4.528 | 73.02 2.875 | - | 76.2 x 76.2# - 3.000 x 3.000 | 50.80 - F 2.000 - F | 69.85x2.1MM 2.750 x 0.083 | FORD F SERIES TRUCK |

THREADED HOLES - M12 x 1.75mm

| COMPLETE ASSEMBLY PART # | WELDED PIN YOKE | U/JOINT KIT | CENTRE YOKE | CENTERING FLANGE YOKE <i>includes ball kit</i> | BALL REPAIR KIT | COMMENTS |
|--------------------------|-----------------|-------------|-------------|---|-----------------|------------------------|
| | 3-28-1747X | 5-178X | 3-26-757 | 212024X | SCV-82B | SUIT 2.750 x .083 TUBE |

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C = 30.16
1.18
B1 = 106.35
4.18
B2 = 79.29
3.11

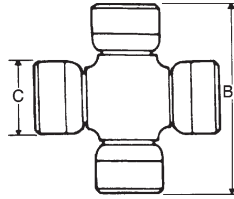


FIG. 1

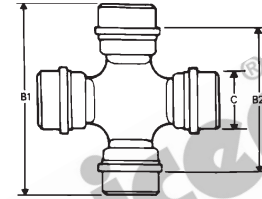


FIG. 2

1410 UNIVERSAL JOINT KIT

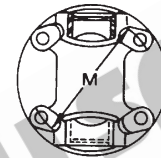
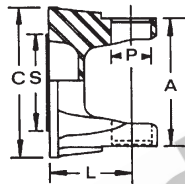
| PART No. | LUBE | FIGURE | DESCRIPTION |
|-------------------|------|--------|----------------------------------|
| K5-GB10R | SIDE | 1 | STANDARD JOINT |
| RUJ-4008 | SIDE | 2 | C/W 4 SNAP RINGS & 4 CIRCLIPS |
| K5-GB10RHD | SIDE | 1 | PREMIUM THRUST WASHER HEAVY DUTY |
| 5-641XD | NIL | 1 | NON LUBRICATED SOLID CROSS |

1410 CONVERSION UNIVERSAL JOINT KITS

Refer to Section B:1 for dimensional data & hardware kits

| PART No. | LUBE | DESCRIPTION |
|-----------------|------|--|
| RUJ-4008 | | CONVERSION 1410 - S55 SERIES |
| 5-357X | | CONVERSION 1410 - 5380 SERIES |
| 5-345X | | CONVERSION 1410 - 4C SERIES (BLOCK CAPS) |
| 5-346X | | CONVERSION 1410 - 4C SERIES (THREADED WING CAPS) |

A - 112.70
4.43
P - 30.16
1.18



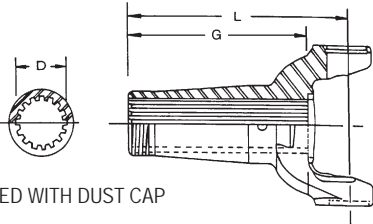
1410 FLANGE YOKE

| PART No. | FLANGE DIA. | C/L OF U.J. TO FACE | SPIGOT DIA M=MALE F=FEMALE S | MAX. STATIC ANGLE | P.C.D. M | BOLT HOLE PATTERN | No. HOLES | HOLE DIA | DESCRIPTION |
|--------------------|-----------------|---------------------|---------------------------------------|-------------------|-----------------|--------------------------------|-----------|----------------|--------------------------|
| 3-2-159 | 117.48 4.625 | 42.88 1.688 | M-69.85 M-2.750 | 22 | 95.25 3.750 | 61.23 x 72.96 2.410 x 2.872 | 4 | 11.20 0.438 | STANDARD |
| K3-2-A2119 | 100.00 3.937 | 65.00 2.559 | F-57.00 F-2.244 | 20 | 84.00 3.307 | EQUALLY SPACED | 6 | 8.10 0.319 | METRIC DIN 100 x 6M8 |
| K3-2-A2269 | 120.00 4.724 | 65.00 2.559 | F-75.00 F-2.952 | 20 | N/A | N/A | N/A | N/A | SEMI FINISHED 120mm O.D. |
| 3-2-429 | 149.23 5.875 | 50.80 2.000 | M-95.25 M-3.750 | 30 | 120.65 4.750 | 77.55 x 92.42 3.053 x 3.639 | 4 | 12.70 0.500 | 1410 X 1480 FLANGE |
| K3-2-GB1199 | 120.00 4.724 | 56.00 2.204 | F-75.00 F-2.952 | 25 | 101.50 3.996 | EQUALLY SPACED | 8 | 10.00 0.394 | METRIC DIN 120 x 8M10 |
| 3-2-3900 | 120.00 4.724 | 55.00 2.165 | F-80.00 F-3.150 | | 100.00 3.937 | 59 x 81 2.323 x 3.189 | 4 | 10.20 0.402 | ISUZU FACE |

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1410 HARDY SPICER



SUPPLIED WITH DUST CAP

Fig-1

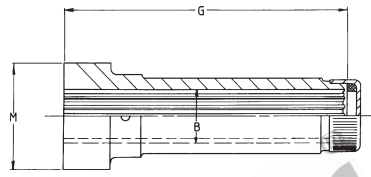
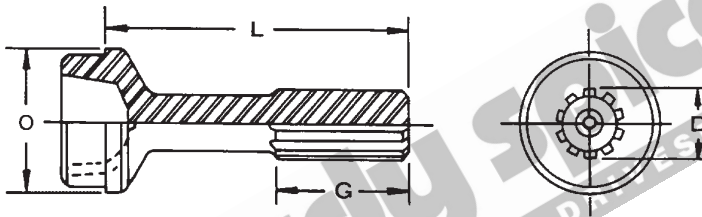


Fig-2

1410 SLIP YOKE

| PART No. | FIG | SPLINE O.D. & No. D | C/LINE TO END OF L | LENGTH OF SPLINE G | JOINT ANGLE | DUST CAP KIT | COMMENTS |
|------------|-----|------------------------|-----------------------|-----------------------|-------------|--------------|---|
| 3-3-788KX | 1 | 34.93-16 1.375 | 133.40 5.250 | 101.60 4.000 | 22 | DCK31B | FOR MID SHIP STUB APPS. |
| 3-3-118KX | 1 | 38.09-16 1.500 | 165.10 6.500 | 135.74 5.344 | 22 | DCK35A | STANDARD |
| 3-3-508KX | 1 | 38.09-16 1.500 | 193.00 7.600 | 162.00 6.378 | 30 | DCK35A | LONG REPLACES K3-3-A1010 |
| 3-3-468KX | 1 | 38.09-16 1.500 | 99.22 3.906 | 69.85 2.750 | 8 | DCK35A | FOR SHORT COUPLED SHAFTS |
| 3-3-1701KX | 1 | 39.62-16 1.571 | 173.04 6.813 | 139.73 5.501 | 21 | DCK48A | 1480 SERIES SPLINES |
| 3-3-2381KX | 1 | 39.62-16 1.571 | 272.10 10.713 | 241.30 9.500 | 37 | DCK48A | 1480 SERIES SPLINES |
| 3-55-A0128 | 2 | 38.09-16 1.500 | N/A | 178.00 7.008 | | DCK35A | BUTT SIZE "M" = 89mm x 38mm SEMI FINISHED SLEEVE |
| 3-3-1511KX | 1 | 44.45-16 1.750 | 82.55 3.250 | 52.00 2.100 | 9 | DCK55A | SHORT COUPLED |

ALTERNATE SPLINED DUST CAP KIT = DCK35B



1410 STUB

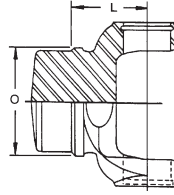
| SPLINE TYPE: | | HC = HARDY COATED ST = STEEL | | | BUTT TYPE: | | H = HOLLOW S = SOLID | | COMMENTS |
|--------------|------------------------|---------------------------------|-----------------------|-------------------------------------|------------|-------------------------------|-------------------------|-------------|----------|
| PART No. | SPLINE DIA. & No. D | SPLINE TYPE | LENGTH OF SPLINE G | END OF SPLINE TO POINT OF WELD L | BUTT TYPE | TUBE O.D. & THICKNESS O | TUBE PART No. | | |
| K3-42-GB3081 | 38.10-16 1.500 | HC | 76.20 3.000 | 153.18 6.031 | S | 76.20 x 2.41 3.000 x 0.095 | 2413-0000 | STD | |
| K3-42-A451 | 38.10-16 1.500 | HC | 76.20 3.000 | 185.00 7.280 | S | 76.20 x 2.41 3.000 x 0.095 | 2413-0000 | LONG | |
| K3-42-GB4301 | 38.10-16 1.500 | HC | 63.00 2.500 | 156.00 | H | 88.90 x 2.41 3.500 x 0.095 | 2813-0000 | | |
| 3-42-300 | 38.10-16 1.500 | ST | 300.00 11.811 | | | | | SPLINED BAR | |

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BUTT TYPE:
H=HOLLOW
S=SOLID

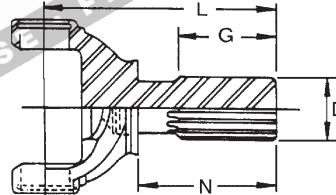


1410

WELD YOKE

| PART No. | C/LINE TO POINT OF WELD L | TUBE O.D. & WALL THICKNESS O | TUBE PART No. | BUTT TYPE | MAX. ANGLE | COMMENTS |
|--------------|------------------------------|---------------------------------|---------------|-----------|------------|----------|
| 3-28-267 | 53.98 2.125 | 76.20 x 2.41 3.000 x 0.095 | 2413-0000 | H | 30 | |
| K3-26-GB1637 | 54.00 2.126 | 88.90 x 2.41 3.500 x 0.095 | 2813-0000 | H | 20 | |
| 3-28-367 | 54.00 2.126 | 88.90 x 1.65 3.500 x 0.065 | 2816-0000 | H | 30 | |

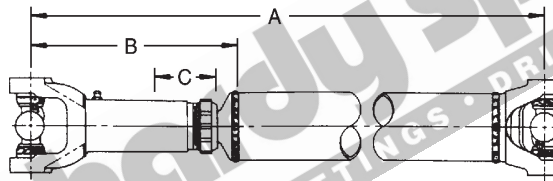
SPLINE TYPE:
HC = HARDY COATED
ST = STEEL



1410

STUB YOKE

| PART No. | SPLINE DIA. & No. D | LENGTH OF SPLINE G | C/LINE TO END OF SPLINE L | SHOULDER TO END OF SPLINE N | SPLINE TYPE | MAX. ANGLE | COMMENTS |
|----------|------------------------|-----------------------|------------------------------|--------------------------------|-------------|------------|-----------------|
| 3-82-81 | 38.09-16 1.500 | 50.80 2.000 | 125.98 4.969 | 79.38 3.125 | ST | 8 | SUIT 3-3-468KX |
| 3-82-261 | 44.45-16 1.750 | 36.50 1.438 | 115.50 4.547 | 67.87 2.672 | | 9 | SUIT 3-3-1511KX |



1410

TUBULAR TYPE ASSEMBLY CHART

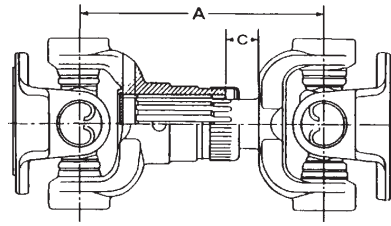
| MINIMUM TUBE LENGTH = 50.1mm (1.94") | | | | | | | |
|--------------------------------------|--------------------|-------------------------------------|-----------------|--------------------------------------|--------------|---------------------|----------------------------|
| SLIP YOKE FEMALE PART No. | STUB MALE PART No. | C/LINE TO POINT OF WELD CLOSED B | TOTAL SLIP C | CLOSED LENGTH C/L TO C/L U.J.'s A | WELD YOKE | MAX. ANGLE OF ASSY. | TUBE PART No. & SIZE |
| 3-3-118KX <i>See Note</i> | K3-42-GB3081 | 185.00 7.280 | 57.00 2.244 | 289.10 11.380 | 3-28-267 | 22 | 2413-0000 3.000 x 0.095 |
| 3-3-118KX | K3-42-GB4301 | 185.00 7.280 | 57.00 2.244 | 289.10 11.380 | K3-26-GB1637 | 20 | 2813-0000 3.500 x 0.095 |
| 3-3-508KX | K3-42-A451 | 216.00 8.504 | 81.00 3.307 | 320.10 12.600 | 3-28-267 | 22 | 2413-0000 3.000 x 0.095 |

Note : Also available as Unwelded Shaft **1410-PSA-1500** complete with 3-2-159 Flanges

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1410 HARDY SPICER



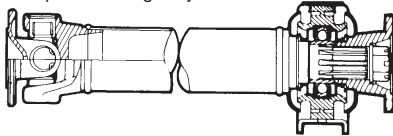
1410 SHORT COUPLED ASSEMBLY CHART

| SLIP YOKE FEMALE PART No. | STUB YOKE MALE PART No. | TOTAL SLIP C | MIN. C/L TO C/L U.J.'s CLOSED A | MAX. ANGLE OF ASSY. | COMMENTS |
|---------------------------|-------------------------|---------------|---------------------------------|---------------------|----------|
| 3-3-468KX | 3-82-81 | 19.1 0.750 | 155.50 6.120 | 8 | |
| 3-3-1511KX | 3-82-261 | 25.4 1.000 | 136.50 5.375 | 9 | |

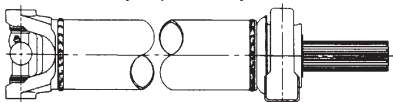
Shaft Assembly End Yoke Style



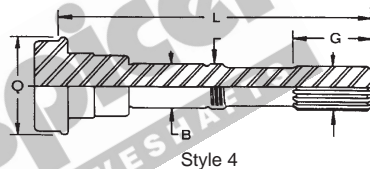
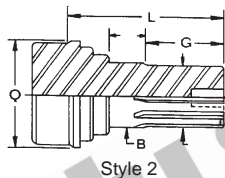
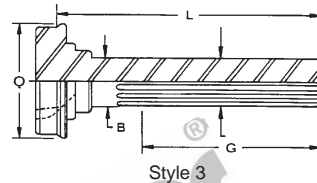
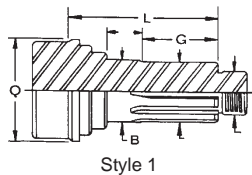
Companion Flange Style



Shaft Assembly Slip Yoke Style



Midship Stubs



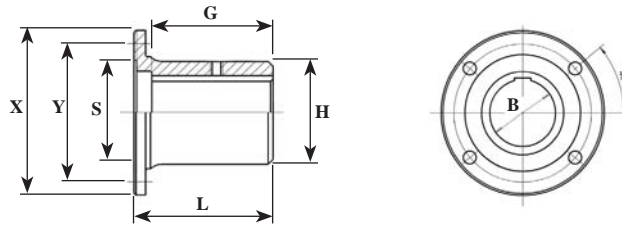
1410 CENTRE BEARING ASSEMBLY

| MIDSHIP STUB SHAFT PART No. | S T Y L E | SPLINE DIA. & No. | LENGTH OF SPLINE G | END OF SPLINE TO POINT OF WELD L | TUBE PART No. & SIZE Q | BEAR-ING I.D. B | CENTRE BEARING PART No. | SLIP YOKE/ COMPANION FLANGE/ END YOKE | COMMENTS |
|-----------------------------|-----------|-------------------|--------------------|----------------------------------|----------------------------|-----------------|-------------------------|---------------------------------------|--------------|
| K3-53-A1411 | 1 | 38.09-10 1.500 | 50.80 2.000 | 105.00 4.134 | 2413-0000 3.000 x 0.095 | 40.00 1.575 | 210391-1X | K3-1-GB6221 C/FLANGE | & KIT 509-33 |
| K4-57-GB2651 | 1 | 38.10-10 1.500 | 50.80 2.000 | 103.50 4.075 | 2813-0000 3.500 x 0.095 | 40.00 1.575 | 210391-1X | K3-1-GB6221 C/FLANGE | & KIT 509-33 |
| K4-57-GB2651 | 1 | 38.10-10 1.500 | 50.80 2.000 | 103.50 4.075 | 2813-0000 3.500 x 0.095 | 40.00 1.574 | 210391-1X | 3-4-2941-1 END YOKE | & KIT 509-33 |
| 3-53-1361 | 3 | 34.93-16 1.375 | 126.24 4.970 | 205.50 8.090 | 2414-0000 3.000 x 0.083 | 35.00 1.375 | 210088-1X or 211187X | 3-3-788KX SLIP YOKE | HARDY COATED |
| 3-53-1371 | 3 | 34.93-16 1.375 | 112.52 4.438 | 179.00 7.04 | 2414-0000 3.000 x 0.083 | 35.00 1.375 | 210088-1X or 211187X | 3-3-788KX SLIP YOKE | HARDY COATED |

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HARDY SPICER 1410

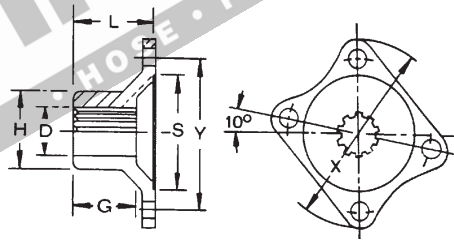


1410

COMPANION FLANGE

RECTANGULAR TYPE - ROUND HOLE

| PART No. | HOLE DIA. | HUB O.D. | MAX. BORE STD KEY | FLANGE FACE TO END OF HUB | LENGTH THRU HOLE | BOLT HOLE DIA. & No. | P.C.D. | SPIGOT DIA. | FLANGE O.D. | BOLT HOLE PATTERN |
|-------------------|----------------|----------------|----------------------|---------------------------|------------------|----------------------|----------------|--------------------|-----------------|--------------------------------|
| | B | H | | L | G | | Y | S | X | |
| K3-1-GB103 | 12.00 0.472 | 76.20 3.000 | 50.8 x 12.7 2"x½" | 65.00 2.562 | 50.80 2.000 | 11.2 x 4 0.440 | 95.25 3.750 | F-69.85 M-2.750 | 115.00 4.527 | 61.23 x 72.96 2.410 x 2.872 |

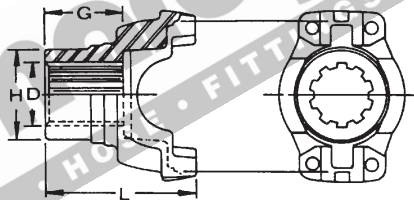


1410

COMPANION FLANGE

RECTANGULAR TYPE - SPLINED HOLE

| PART No. | SPLINE O.D. & No. | HUB O.D. | FLANGE FACE TO END OF HUB | LENGTH THRU HOLE | BOLT HOLE DIA. & No. | P.C.D. | SPIGOT DIA. | FLANGE O.D. | BOLT HOLE PATTERN | NOTES |
|--------------------|-------------------|----------------|---------------------------|------------------|----------------------|-----------------|--------------------|-----------------|--------------------------------|------------|
| | D | H | L | G | | Y | S | X | | |
| K3-1-GB6221 | 38.10-10 1.500 | 49.20 1.937 | 68.30 2.689 | 51.00 2.008 | 11.2 x 4 0.440 | 95.25 3.750 | F-69.85 F-2.750 | 118.00 4.527 | 61.23 x 72.96 2.410 x 2.872 | |
| 3-1-014 | 38.10-10 1.500 | | 69.00 2.717 | 51.00 2.008 | 10.2 x 4 0.402 | 100.00 3.937 | F-80.00 F-3.150 | 120.00 4.724 | 59 x 81 2.323x3.189 | ISUZU FACE |



1410

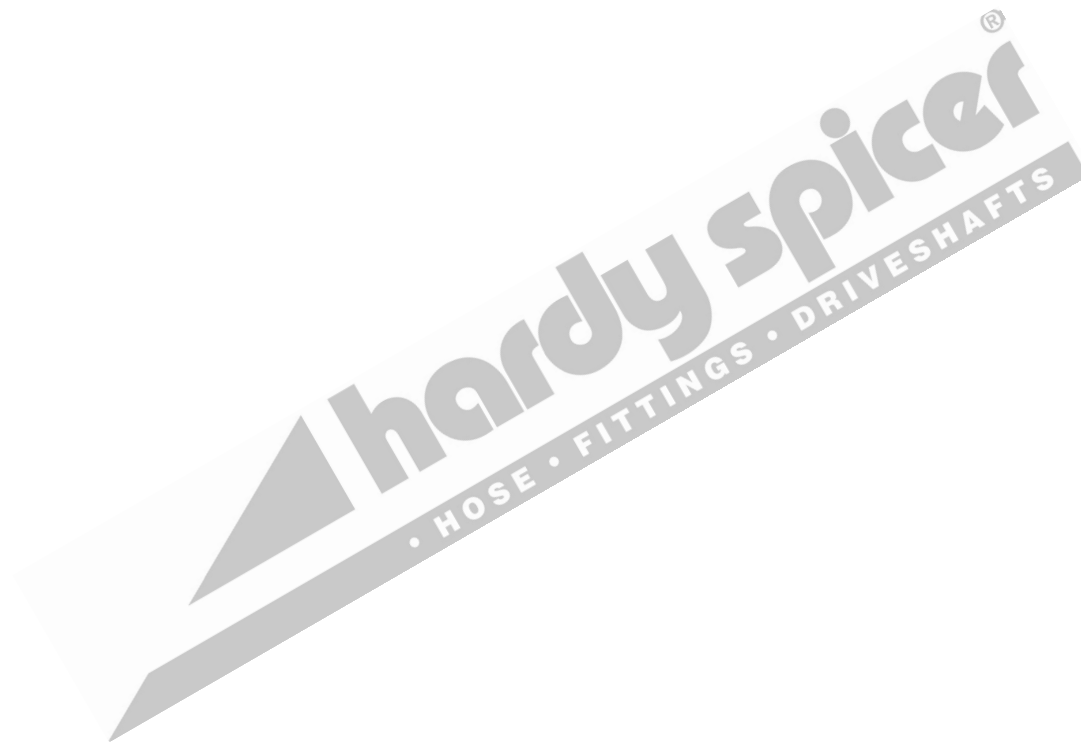
END YOKE - HALF ROUND

SPLINED HOLE

| PART No. | SPLINE O.D. & No. | GROUND HUB O.D. | LENGTH OF HUB | C/L TO END | JOINT ANGLE | STYLE | COMMENTS |
|-------------------|-------------------|-----------------|----------------|----------------|-------------|-------|--|
| | D | H | G | L | | | |
| 3-4-2941-1 | 38.10-10 1.500 | 49.23 1.938 | 50.80 2.000 | 93.68 3.688 | 30 | B45 | BOLT & STRAP KIT TO SUIT PART No. 3-70-28X |

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HARDY SPICER 1480

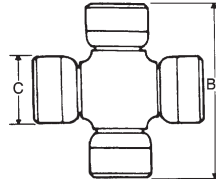
SEE ALSO GWB 687.30 SERIES

C = 34.93

1.37

B1 = 106.38

4.18



1480 UNIVERSAL JOINT KIT

| PART No. | LUBE | DESCRIPTION |
|----------|-------|------------------|
| 5-188X | SIDE | STANDARD JOINT |
| 5-188XHD | SIDE | HEAVY-DUTY JOINT |
| K5-A538 | CROSS | CENTRE LUBE |

1480 CONVERSION UNIVERSAL JOINT KITS

Refer to Section B:1 for dimensional data & hardware kits

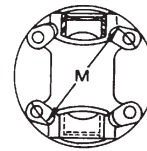
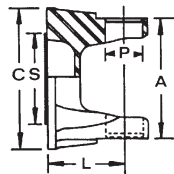
| PART No. | LUBE | DESCRIPTION |
|----------|------|-----------------------------|
| 5-347X | | CONVERSION 1480 - 5C SERIES |
| 5-348X | | CONVERSION 1480 - 5C SERIES |

A - 112.70

4.43

P - 34.93

1.37



1480 FLANGE YOKE

| PART No. | FLANGE DIA. | C/L OF U.J. TO FACE | SPIGOT DIA | | MAX. STATIC ANGLE | P.C.D. M | BOLT HOLE PATTERN | No. HOLES | HOLE DIA | DESCRIPTION |
|-----------|-----------------|---------------------|------------|-------------------------|-------------------|-----------------|--------------------------------|-----------|----------------|----------------------------|
| | C | | L | M=MALE F=FEMALE S | | | | | | |
| 3-2-479 | 149.23 5.875 | 50.80 2.000 | M-95.25 | M-3.750 | 20 | 120.65 4.750 | 77.55 x 92.42 3.053 x 3.639 | 4 | 12.70 0.500 | STANDARD |
| 3-2-489 | 149.23 5.875 | 38.10 1.500 | M-95.25 | M-3.750 | 8 | 120.65 4.750 | 77.55 x 92.42 3.053 x 3.639 | 4 | 12.70 0.500 | LOW ANGLE |
| 3-2-013 | 134.92 5.312 | 62.00 2.441 | M-80.00 | M-3.150 | | 110.00 4.331 | 59.00 x 81.00 2.323 x 3.189 | 4 | 12.10 0.476 | ISUZU FACE |
| 3-2-014 | 119.38 4.700 | 65.00 2.559 | M-80.00 | M-3.150 | | 110.00 4.331 | 55.00 x 95.20 2.165 x 3.748 | 4 | 12.10 0.476 | ISUZU FACE |
| 3-2-104* | 116.00 4.567 | 60.30 2.375 | M-69.85 | M-2.750 | | 95.25 3.750 | 61.23 x 72.96 2.410 x 2.872 | 4 | 11.20 0.438 | 1410 FACE |
| 3-2-A2129 | 120.00 4.724 | 60.00 2.362 | F-75.00 | F-2.953 | | 101.50 3.996 | EQUALLY SPACED | 8 | 10.10 0.398 | METRIC DIN 120mm x 8M10 |

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1480 HARDY SPICER

SUPPLIED WITH
DUST CAP

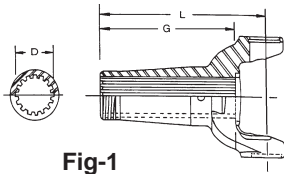


Fig-1

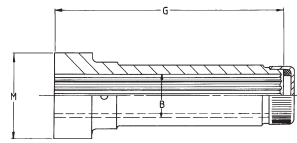
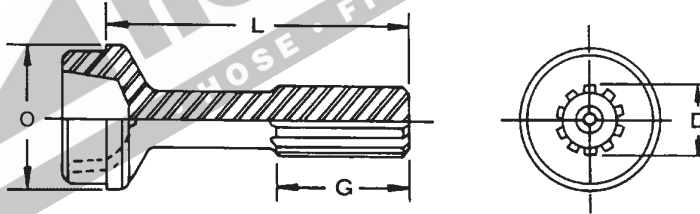


Fig-2

1480 SLIP YOKE

| PART No. | FIG | SPLINE O.D. & No. SPLINE D | C/LINE TO END OF SPLINE L | LENGTH OF SPLINE G | JOINT ANGLE | DUST CAP KITS | COMMENTS |
|------------|-----|----------------------------|---------------------------|--------------------|-------------|---------------|---------------|
| 3-3-1601KX | 1 | 39.62-16 1.570 | 175.00 5.250 | 120.00 4.000 | 21 | DCK48A | STANDARD |
| 3-3-1641KX | 1 | 39.62-16 1.570 | 241.30 9.500 | 190.00 7.480 | 35 | DCK48A | MEDIUM. |
| 3-3-1621KX | 1 | 57.51-10 2.250 | 94.44 3.718 | 64.26 2.530 | 8 | DCK48C | SHORT COUPLED |

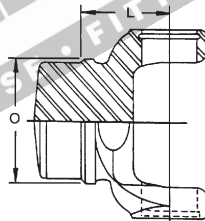
ALTERNATIVE SPLINED DUST CAP KIT=DCK48B



1480 STUB

| PART No. | SPLINE DIA. & No. D | SPLINE TYPE: | | LENGTH OF SPLINE G | END OF SPLINE TO POINT OF WELD L | BUTT TYPE: | | COMMENTS |
|-----------|---------------------|-------------------|------------|--------------------|----------------------------------|------------|-------------------------------|--------------------|
| | | HC = HARDY COATED | ST = STEEL | | | BUTT TYPE: | H = HOLLOW S = SOLID | |
| 3-40-1571 | 39.88-16 1.570 | HC | | 76.20 3.000 | 171.45 6.750 | S | 88.90 x 2.41 3.500 x 0.095 | 2813-0000 STANDARD |
| 3-40-1391 | 39.88-16 1.570 | HC | | 75.00 2.950 | 222.00 8.750 | S | 88.90 x 2.41 3.500 x 0.095 | 2813-0000 MEDIUM |
| 3-40-1411 | 39.88-16 1.570 | HC | | 74.93 2.950 | 273.05 10.750 | H | 88.90 x 2.11 3.500 x 0.083 | 2814-0000 LONG |

BUTT TYPE:
H=HOLLOW
S=SOLID



1480 WELD YOKE

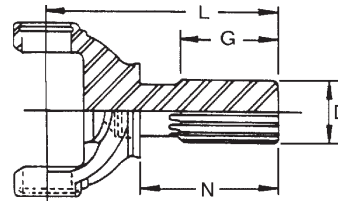
| PART No. | C/LINE TO POINT OF WELD L | TUBE O.D. & WALL THICKNESS O | TUBE PART No. | BUTT TYPE | MAX. ANGLE | COMMENTS |
|----------|---------------------------|-------------------------------|---------------|-----------|------------|----------|
| 3-28-567 | 51.60 2.031 | 88.90 x 2.41 3.500 x 0.095 | 2813-0000 | H | 22° | |

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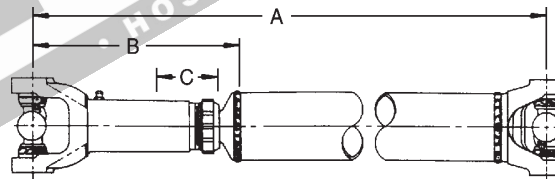
HARDY SPICER 1480

SPLINE TYPE:
HC = HARDY COATED
ST = STEEL



1480 STUB YOKE

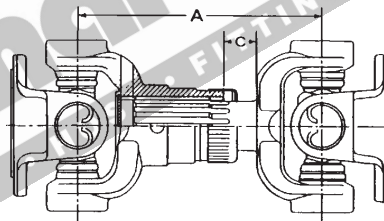
| PART No. | SPLINE DIA. & No. | LENGTH OF SPLINE | C/LINE TO END OF SPLINE | SHOULDER TO END OF SPLINE | SPLINE TYPE | MAX. ANGLE | COMMENTS |
|-----------|-------------------|------------------|-------------------------|---------------------------|-------------|------------|-------------|
| | D | G | L | N | | | |
| 3-82-271 | 57.15-10 2.250 | 40.49 1.594 | 111.13 4.375 | 71.44 2.813 | ST | 8 | |
| 3-82-1211 | 39.67-16 1.562 | 49.00 1.929 | 144.50 5.689 | 88.00 3.464 | | | INDENT ONLY |



1480 TUBULAR TYPE ASSEMBLY CHART

| MINIMUM TUBE LENGTH = 50.1mm (1.94") | | | | | | | |
|--------------------------------------|--------------------|----------------------------------|-----------------|-----------------------------------|-----------|---------------------|----------------------------|
| SLIP YOKE FEMALE PART No. | STUB MALE PART No. | C/LINE TO POINT OF WELD CLOSED B | TOTAL SLIP C | CLOSED LENGTH C/L TO C/L U.J.'s A | WELD YOKE | MAX. ANGLE OF ASSY. | TUBE PART No. & SIZE |
| 3-3-1601KX | 3-40-1571 | 205.00 8.070 | 65.00 2.560 | 292.10 | 3-28-567 | 22 | 2813-0000 3.500 x 0.095 |
| 3-3-1641KX | 3-40-1391 | 272.00 10.710 | 115.00 4.530 | 366.80 | 3-28-567 | 22 | 2813-0000 3.500 x 0.095 |

Note : Also available as Unwelded Shaft **1480-PSA-1500** complete with 3-2-479 Flanges



1480 SHORT COUPLED ASSEMBLY CHART

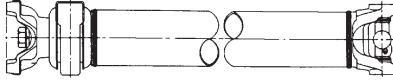
| SLIP YOKE FEMALE PART No. | STUB YOKE MALE PART No. | TOTAL SLIP C | MIN. C/L TO C/L U.J.'s CLOSED A | MAX. ANGLE OF ASSY. | COMMENTS |
|---------------------------|-------------------------|---------------|---------------------------------|---------------------|----------|
| 3-3-1621KX | 3-82-271 | 25.4 1.000 | 139.70 5.500 | 8 | |

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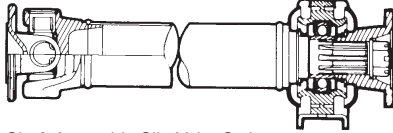
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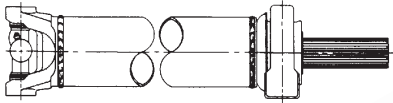
Shaft Assembly End Yoke Style



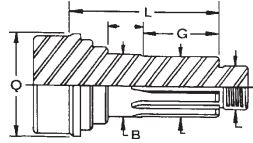
Companion Flange Style



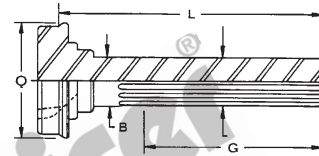
Shaft Assembly Slip Yoke Style



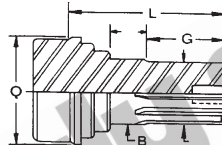
Midship Stubs



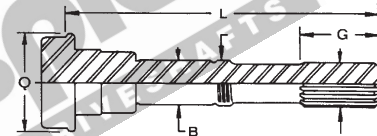
Style 1



Style 3



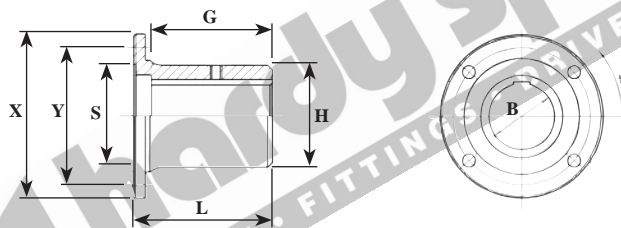
Style 2



Style 4

1480 CENTRE BEARING ASSEMBLY

| MIDSHIP STUB SHAFT PART No. | S T Y L E | SPLINE DIA. & No. | LENGTH OF SPLINE G | END OF SPLINE TO POINT OF WELD L | TUBE PART No. & SIZE Q | BEARING I.D. B | CENTRE BEARING PART No. | SLIP YOKE/ COMPANION FLANGE/ END YOKE | COMMENTS |
|-----------------------------|-----------|-------------------|--------------------|----------------------------------|----------------------------|----------------|-------------------------|---------------------------------------|-------------------|
| K4-57-GB2651 | 2 | 38.10-10 1.500 | 50.80 2.000 | 103.50 4.075 | 2813-0000 3.500 x 0.095 | 40.00 1.574 | 210391-1X | 3-4-3091-1 END YOKE | & NUT 509-33 |
| K4-57-GB2651 | 2 | 38.10-10 1.500 | 50.80 2.000 | 103.50 4.075 | 2813-0000 3.500 x 0.095 | 40.00 1.574 | 210391-1X | K4-1-A2191 C/FLANGE | & NUT 509-33 |
| 3-53-451 | 3 | 39.64-16 1.562 | 150.83 5.938 | 216.68 8.531 | 3.500 x 0.083 | 40.00 1.574 | 210433-1X | 3-3-1601KX SLIP YOKE | & DUST CAP DCK48B |
| 4-53-341 | 1 | 44.45-10 1.750 | 57.94 2.281 | 110.34 4.344 | 2813-0000 3.500 x 0.095 | 45.00 1.771 | 210084-2X | K4-1-A0761 C/FLANGE | & KIT 231502 |



1480 COMPANION FLANGE

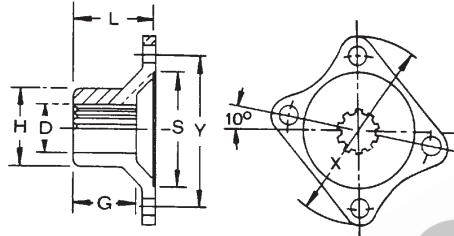
RECTANGULAR TYPE - ROUND HOLE

| PART No. | HOLE DIA. | HUB O.D. | MAX. BORE STD KEY | FLANGE FACE TO END OF HUB L | LENGTH THRU HOLE G | BOLT HOLE DIA. & No. | P.C.D. Y | SPIGOT DIA. S | FLANGE O.D. X | BOLT HOLE PATTERN |
|------------|----------------|-----------------|-------------------|-----------------------------|--------------------|----------------------|-----------------|--------------------|-----------------|--------------------------------|
| K4-1-A0913 | 20.00 0.787 | 101.10 3.980 | | 75.49 2.972 | 56.49 2.224 | 12.7 x 4 0.500 | 120.70 4.750 | F-95.25 M-3.750 | 142.98 5.629 | 77.55 x 92.42 3.053 x 3.639 |

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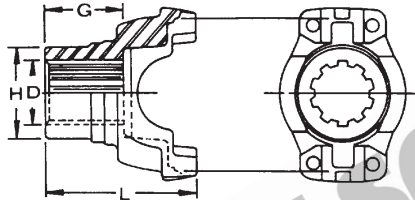


1480

COMPANION FLANGE

RECTANGULAR TYPE - SPLINED HOLE

| PART No. | SPLINE O.D. & No. | HUB O.D. | FLANGE FACE TO END OF HUB | LENGTH THRU HOLE | BOLT HOLE DIA. & No. | P.C.D. | SPIGOT DIA. | FLANGE O.D. | BOLT HOLE PATTERN | NOTES |
|--------------------------------|-------------------|----------------|---------------------------|------------------|----------------------|-----------------|--------------------|-----------------|--------------------------------|------------|
| | D | H | L | G | | Y | S | X | | |
| K4-1-A2191 | 38.10-10 1.500 | 49.21 1.938 | 63.30 2.492 | | 12.7 x 4 0.500 | 120.7 4.750 | F-95.25 F-3.750 | 142.98 5.629 | 77.55 x 92.42 2.410 x 2.872 | |
| 3-1-014 | 38.10-10 1.500 | | 69.00 2.717 | 51.00 2.008 | 10.2 x 4 0.402 | 100.00 3.937 | F-80.00 F-3.150 | 120.00 4.724 | 59 x 81 2.323x3.189 | ISUZU FACE |
| 3-1-013 | 44.45-10 1.750 | | 69.00 2.717 | 58.00 2.283 | 12.2 x 4 0.476 | 110.00 4.331 | F-80.00 F-3.150 | 135.00 5.315 | 55 x 95.2 2.165 x 3.748 | ISUZU FACE |
| K4-1-A0761 LARGE HUB | 44.45-10 1.750 | 65.15 2.565 | 76.20 3.000 | 57.15 2.250 | 12.7 x 4 0.500 | 12.07 4.750 | F-95.25 3.750 | 145.67 5.735 | 77.55 x 92.42 2.410 x 2.872 | |
| SMALL HUB | | 55.55 2.187 | | | | | | | | |



1480

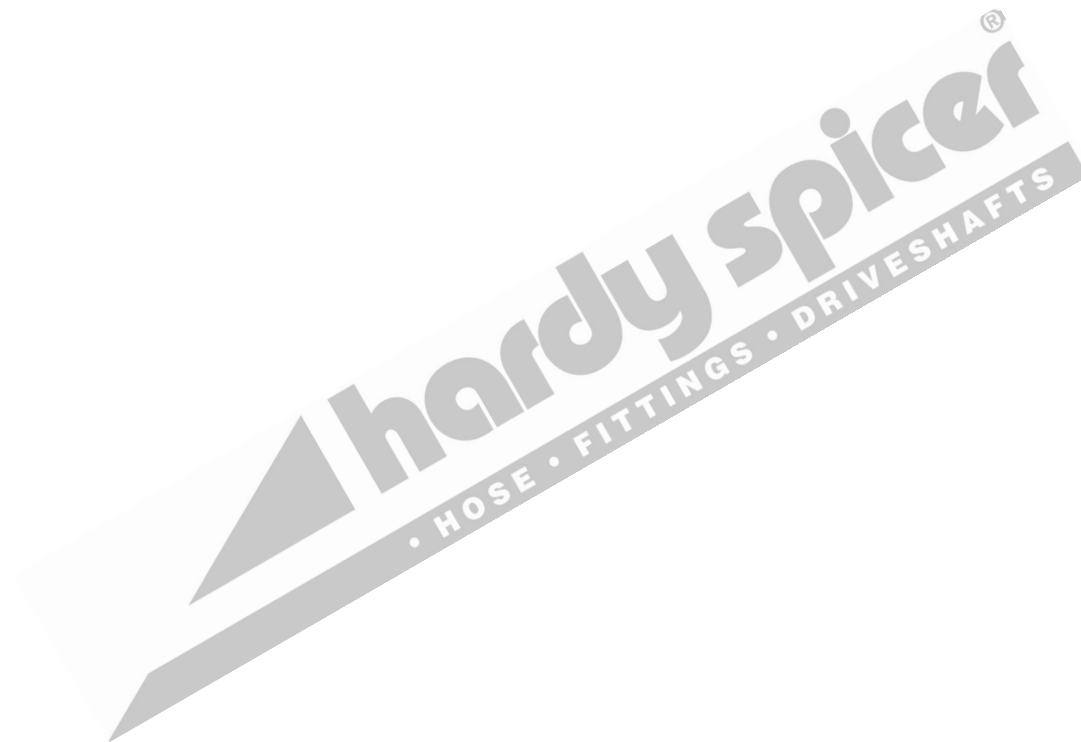
END YOKE - HALF ROUND

SPLINED HOLE

| PART No. | SPLINE O.D. & No. | GROUND HUB O.D. | LENGTH OF OF HUB | C/L TO END | JOINT ANGLE | STYLE | COMMENTS |
|-------------------|-------------------|-----------------|------------------|-----------------|-------------|-------|--|
| | D | H | G | L | | | |
| 3-4-3091-1 | 38.10-10 1.500 | 58.73 2.312 | 50.80 2.000 | 102.39 1.031 | 30 | BS | BOLT & STRAP KIT TO SUIT PART No. 3-70-38X |

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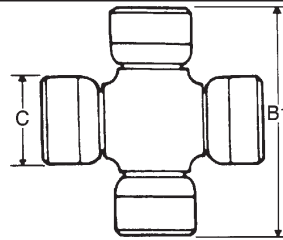


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HARDY SPICER 1510

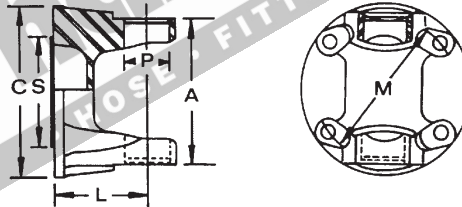
C = 39.70
1.56
B1 = 115.90
4.55



1510 UNIVERSAL JOINT KIT

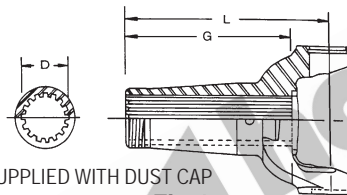
| PART No. | LUBE | DESCRIPTION |
|----------|--------|---|
| K5-GB22R | SIDE | STANDARD JOINT |
| K5-GB15R | CAP | LOCK PLATE CAPS |
| K5-A725 | CENTRE | HIGH PERFORMANCE HARDY SPICER 1630 SERIES |

A - 123.93
4.87
P - 39.70
1.56



1510 FLANGE YOKE

| PART No. | FLANGE DIA. | C/L OF U.J. TO FACE | SPIGOT DIA M=MALE F=FEMALE S | MAX. STATIC ANGLE | P.C.D. M | BOLT HOLE PATTERN | No. HOLES | HOLE DIA | DESCRIPTION |
|------------|-----------------|---------------------|---------------------------------------|-------------------|-----------------|--------------------------------|-----------|----------------|----------------------------|
| K4-2-GB239 | 149.23 5.875 | 63.50 2.500 | M-95.25 M-3.750 | 22 | 120.65 4.750 | 77.55 x 92.42 3.053 x 3.639 | 4 | 12.70 0.500 | STANDARD |
| K4-2-A0409 | 149.23 5.875 | 80.00 3.149 | M-95.25 M-3.750 | | 120.65 4.750 | 77.55 x 92.42 3.053 x 3.639 | 4 | 12.70 0.500 | WIDE ANGLE |
| K4-2-A2079 | 120.00 4.724 | 70.00 2.835 | F-75.00 F-2.953 | 28 | 101.50 3.996 | EQUALLY SPACED | 8 | 10.10 0.398 | METRIC DIN 120mm x 8M10 |
| K4-2-GB649 | 150.00 5.906 | 90.00 3.543 | F-90.00 F-3.543 | 28 | 130.00 5.118 | EQUAL | 8 | 12 | METRIC DIN 150mm x 8M12 |



SUPPLIED WITH DUST CAP
Fig-1

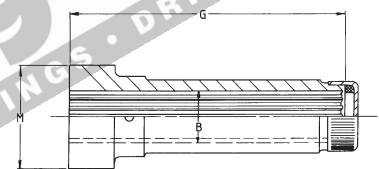


Fig-2

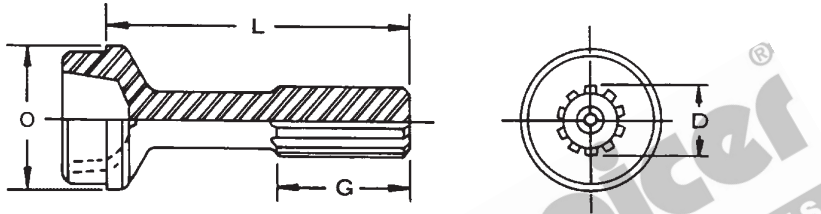
1510 SLIP YOKE

| PART No. | FIG | SPLINE O.D. & No. SPLINE D | C/LINE TO END OF L | LENGTH OF SPLINE G | JOINT ANGLE | DUST CAP KITS | COMMENTS |
|-------------|-----|-------------------------------|-----------------------|-----------------------|-------------|---------------|---|
| K4-3-A1120 | 1 | 44.45-16 1.750 | 169.90 6.688 | 117.51 4.625 | 22 | DCK51A | STANDARD |
| K4-3-GB1630 | 1 | 50.80-16 2.000 | 267.00 10.512 | 207.00 8.150 | 35 | SJS61A | LONG USE WITH 5-40-1011 MACHINE BUTT TO SUIT |
| 4-55-A0138 | 2 | 44.45-16 1.750 | | 229.00 9.016 | | SJS55A | BUTT SIZE "M" = 89mm x 38mm SEMI FINISHED SLEEVE |

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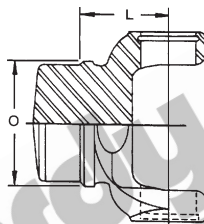
1510 HARDY SPICER



1510 STUB

| SPLINE TYPE: | | HC = HARDY COATED ST = STEEL | | | BUTT TYPE: | | H = HOLLOW S = SOLID | | COMMENTS |
|---------------------|------------------------|---------------------------------|-----------------------|-------------------------------------|------------|-------------------------------|-------------------------|-------------|----------|
| PART No. | SPLINE DIA. & No. D | SPLINE TYPE | LENGTH OF SPLINE G | END OF SPLINE TO POINT OF WELD L | BUTT TYPE | TUBE O.D. & THICKNESS O | TUBE PART No. | | |
| K4-42-GB1791 | 44.45-16 1.750 | HC | 76.20 3.000 | 167.48 6.100 | S | 76.20 x 2.41 3.000 x 0.095 | 2413-0000 | STANDARD | |
| 4-42-300 | 44.45-16 1.750 | ST | 300.00 11.811 | | | | | SPLINED BAR | |

BUTT TYPE:
H=HOLLOW
S=SOLID



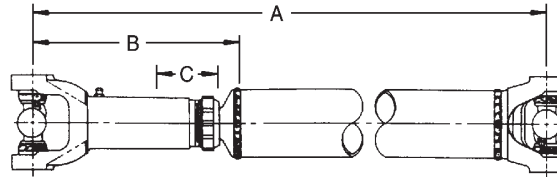
1510 WELD YOKE

| PART No. | C/LINE TO POINT OF WELD L | TUBE O.D. & WALL THICKNESS O | TUBE PART No. | BUTT TYPE | MAX. ANGLE | COMMENTS |
|--------------------|------------------------------|---------------------------------|------------------|-----------|------------|----------|
| K4-26-GB477 | 69.85 2.750 | 76.20 x 2.41 3.000 x 0.095 | 2413-0000 | H | | |

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HARDY SPICER 1510



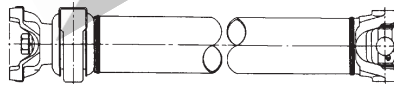
1510 TUBULAR TYPE ASSEMBLY CHART

MINIMUM TUBE LENGTH = 53.5mm (2.50")

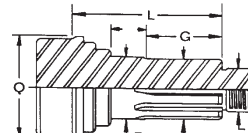
| SLIP YOKE FEMALE PART No. | STUB MALE PART No. | C/LINE TO POINT OF WELD CLOSED B | TOTAL SLIP C | CLOSED LENGTH C/L TO C/L U.J.'s A | WELD YOKE | MAX. ANGLE OF ASSY. | TUBE PART No. & SIZE |
|---------------------------|--------------------|----------------------------------|--------------|-----------------------------------|-------------|---------------------|----------------------------|
| K4-3-A1120 | K4-42-GB1791 | 200.00 | 64.00 | 333.40 | K4-26-GB477 | 22 | 2413-0000 3.000 x 0.095 |
| | | 7.870 | 2.520 | 13.130 | | | |
| K4-3-GB1630 | 5-40-1011# | 306.00 | 118.10 | 439.1 | K4-26-GB477 | 22 | 2413-0000 3.000 x 0.095 |
| | | 12.05 | 4.650 | 17.287 | | | |

MACHINE BUTT TO SUIT

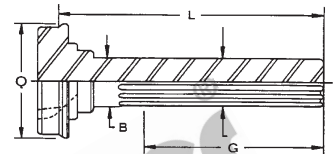
Shaft Assembly End Yoke Style



Midship Stubs

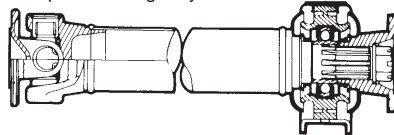


Style 1

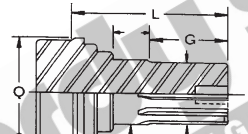
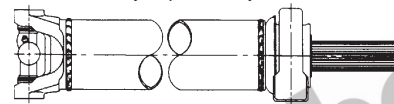


Style 3

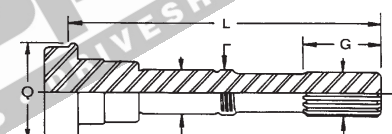
Companion Flange Style



Shaft Assembly Slip Yoke Style



Style 2



Style 4

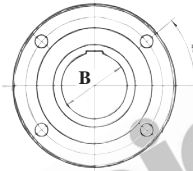
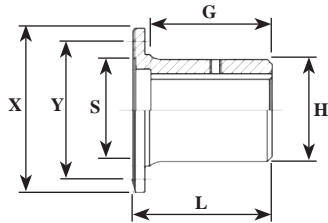
1510 CENTRE BEARING ASSEMBLY

| MIDSHIP STUB SHAFT PART No. | S T Y L E | SPLINE DIA. & No. | LENGTH OF SPLINE G | END OF SPLINE TO POINT OF WELD L | TUBE PART No. & SIZE Q | BEAR-ING I.D. B | CENTRE BEARING PART No. | SLIP YOKE/ COMPANION FLANGE/ END YOKE | COMMENTS |
|-----------------------------|-----------|-------------------|--------------------|----------------------------------|----------------------------|-----------------|-------------------------|---------------------------------------|--------------|
| K3-53-A1411 | 1 | 38.10-10 1.500 | 50.80 2.000 | 105.50 4.154 | 2413-0000 3.000 x 0.095 | 40.00 1.574 | 210391-1X | K4-1-A2191 C/FLANGE | & NUT 509-33 |
| K4-57-GB2651 | 1 | 38.10-10 1.500 | 50.80 2.000 | 103.50 4.075 | 2813-0000 3.500 x 0.095 | 40.00 1.574 | 210391-1X | K4-1-A2191 C/FLANGE | & NUT 509-33 |
| K4-57-A061 | 1 | 44.45-10 1.750 | 57.93 2.280 | 111.79 4.401 | 2413-0000 3.000 x 0.095 | 45.00 1.378 | 210084-2X | K4-1-A0761 C/FLANGE | & NUT 231502 |
| 4-53-341 | 1 | 44.45-10 1.750 | 57.93 2.280 | 111.79 4.401 | 2813-0000 3.500 x 0.095 | 45.00 1.378 | 210084-2X | K4-1-A0761 C/FLANGE | & NUT 231502 |

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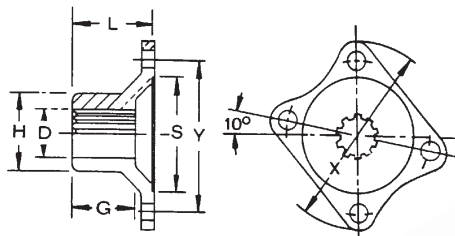
1510 HARDY SPICER



1510 COMPANION FLANGE

RECTANGULAR TYPE - ROUND HOLE

| PART No. | HOLE DIA. | HUB O.D. | MAX. BORE STD KEY | FLANGE FACE TO END OF HUB | LENGTH THRU HOLE | BOLT HOLE DIA. & No. | P.C.D. | SPIGOT DIA. | FLANGE O.D. | BOLT HOLE PATTERN |
|-------------------|----------------|-----------------|-------------------|---------------------------|------------------|----------------------|-----------------|--------------------|-----------------|--------------------------------|
| | B | H | | L | G | | Y | S | X | |
| K4-1-A0913 | 20.00 0.787 | 101.10 3.980 | | 75.49 2.972 | 56.49 2.224 | 12.7 x 4 0.500 | 120.70 4.750 | F-95.25 M-3.750 | 142.98 5.629 | 77.55 x 92.42 3.053 x 3.639 |



1510 COMPANION FLANGE

RECTANGULAR TYPE - SPLINED HOLE

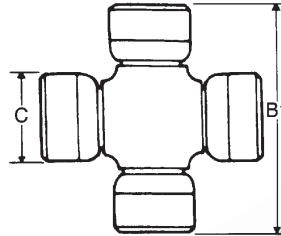
| PART No. | SPLINE O.D. & No. | HUB O.D. | FLANGE FACE TO END OF HUB | LENGTH THRU HOLE | BOLT HOLE DIA. & No. | P.C.D. | SPIGOT DIA. | FLANGE O.D. | BOLT HOLE PATTERN | NOTES |
|-------------------|-------------------|----------------|---------------------------|------------------|----------------------|-----------------|--------------------|-----------------|--------------------------------|------------|
| | D | H | L | G | | Y | S | X | | |
| K4-1-A2191 | 38.10-10 1.500 | 49.21 1.938 | 63.30 2.492 | | 12.7 x 4 0.500 | 120.7 4.750 | F-95.25 F-3.750 | 142.98 5.629 | 77.55 x 92.42 2.410 x 2.872 | |
| 3-1-014 | 38.10-10 1.500 | | 69.00 2.717 | 51.00 2.008 | 10.2 x 4 0.402 | 100.00 3.937 | F-80.00 F-3.150 | 120.00 4.724 | 59 x 81 2.323x3.189 | ISUZU FACE |
| 3-1-013 | 44.45-10 1.750 | | 69.00 2.717 | 58.00 2.283 | 12.2 x 4 0.476 | 110.00 4.331 | F-80.00 F-3.150 | 135.00 5.315 | 55 x 95.2 2.165 x 3.748 | ISUZU FACE |
| K4-1-A0761 | 44.45-10 1.750 | 65.15 2.565 | 76.20 3.000 | 57.15 2.250 | 12.7 x 4 0.500 | 12.07 4.750 | F-95.25 3.750 | 145.67 5.735 | 77.55 x 92.42 2.410 x 2.872 | |
| LARGE HUB | | 55.55 | | | | | | | | |
| SMALL HUB | | 2.187 | | | | | | | | |

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C = 34.93
1.37
B1 = 126.20
4.96



1550 UNIVERSAL JOINT KIT

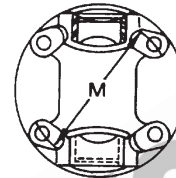
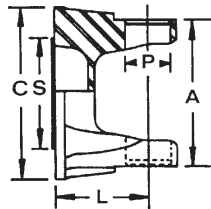
| PART No. | LUBE | DESCRIPTION |
|-----------|------|---------------------------|
| 5-155X | SIDE | STANDARD JOINT |
| 5-155XHD | SIDE | HEAVY-DUTY JOINT |
| 5-155XLFL | NIL | HEAVY-DUTY JOINT NON LUBE |

1550 CONVERSION UNIVERSAL JOINT KITS

Refer to Section B:1 for dimensional data & hardware kits

| PART No. | LUBE | DESCRIPTION |
|----------|------|---|
| 5-220X | | CONVERSION 1550 - 6C SERIES (THREADED WING) |
| 5-221X | | CONVERSION 1550 - 6C SERIES (BLOCK) |
| 5-328X | | CONVERSION 1550 - 58WB SERIES (BLOCK) |

A - 133.35
5.25
P - 34.93
1.37



1550 FLANGE YOKE

| PART No. | FLANGE DIA. | C/L OF U.J. TO FACE | SPIGOT DIA | | MAX. STATIC ANGLE | P.C.D. | BOLT HOLE PATTERN | No. HOLES | HOLE DIA | DESCRIPTION |
|----------|-------------|---------------------|------------|--------------------|-------------------|----------------|-------------------|-----------|---------------------------|-------------|
| | C | | L | M=MALE F=FEMALE | | | | | | |
| 4-2-669 | 149.23 | 50.80 | M-95.25 | 22 | 120.65 | 77.55 x 92.42 | 4 | 12.70 | STANDARD | |
| | 5.875 | | | | | | | | | 2.000 |
| 4-2-679 | 149.23 | 38.10 | M-95.25 | 8 | 120.65 | 77.55 x 92.42 | 4 | 12.70 | LOW ANGLE | |
| | 5.875 | | | | | | | | | 1.500 |
| 4-2-969 | 150.00 | 80.00 | F-90.00 | | 130.00 | EQUALLY SPACED | 8 | 12.10 | METRIC DIN 150mm x 8M12 | |
| | 5.906 | | | | | | | | | 3.150 |
| 4-2-689 | 174.62 | 50.80 | M-168.28 | 22 | 155.57 | EQUALLY SPACED | 8 | 9.53 | 1610 FACE PILOT FOR BRAKE | |
| | 6.875 | | | | | | | | | 2.000 |

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1550 HARDY SPICER

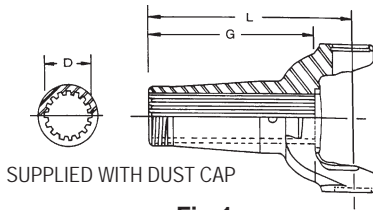


Fig-1

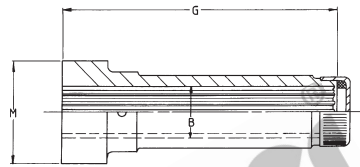
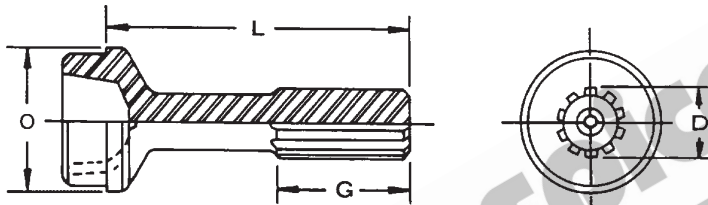


Fig-2

1550 SLIP YOKE

| PART No. | FIG | SPLINE O.D. & No. SPLINE D | C/LINE TO END OF SPLINE L | LENGTH OF SPLINE G | JOINT ANGLE | DUST CAP KIT | COMMENTS |
|------------|-----|----------------------------|---------------------------|--------------------|-------------|---------------------|---|
| 4-3-1241KX | 1 | 44.45-16 1.750 | 174.63 6.875 | 143.00 5.630 | 22 | DCK55A or SJS55A | STANDARD |
| 4-3-1431KX | 1 | 44.45-16 1.750 | 255.52 10.062 | 203.00 7.992 | 22 | DCK55A or SJS55A | LONG |
| 4-3-1261KX | 1 | 63.50-16 2.500 | 88.90 3.500 | 65.02 2.560 | 5 | | SHORT COUPLED |
| 4-55-A0138 | 2 | 44.45-16 1.750 | | 229.00 9.016 | | DCK55A or SJS55A | BUTT SIZE "M" = 89mm x 38mm SEMI FINISHED SLEEVE |

ALTERNATIVE SPLINED DUST CAP KIT=DCK55B



1550 STUB

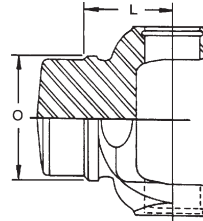
| SPLINE TYPE: | | HC = HARDY COATED ST = STEEL | | | BUTT TYPE: | | H = HOLLOW S = SOLID | | COMMENTS |
|--------------|---------------------|---------------------------------|--------------------|----------------------------------|------------|-------------------------------|-------------------------|------------|----------|
| PART No. | SPLINE DIA. & No. D | SPLINE TYPE | LENGTH OF SPLINE G | END OF SPLINE TO POINT OF WELD L | BUTT TYPE | TUBE O.D. & THICKNESS O | TUBE PART No. | | |
| 4-40-761 | 44.45-16 1.750 | HC | 76.20 3.000 | 172.23 6.781 | S | 88.90 x 2.41 3.500 x 0.095 | 2813-0000 | STANDARD | |
| 4-40-721 | 44.45-16 1.750 | HC | 76.20 3.000 | 234.19 8.750 | S | 88.90 x 2.41 3.500 x 0.095 | 2813-0000 | LONG | |
| 4-40-471 | 63.50-16 2.500 | HC | 39.67 1.562 | 81.00 3.189 | S | 88.90 x 2.41 3.500 x 0.095 | 2813-0000 | | |
| 4-42-300 | 44.45-16 1.750 | ST | 300.00 11.811 | | | | | SPLINE BAR | |

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BUTT TYPE:
H=HOLLOW
S=SOLID

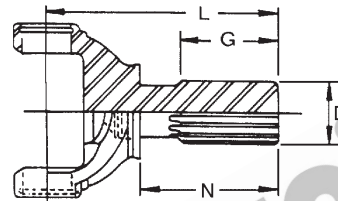


1550

WELD YOKE

| PART No. | C/LINE TO POINT OF WELD L | TUBE O.D. & WALL THICKNESS O | TUBE PART No. | BUTT TYPE | MAX. ANGLE | COMMENTS |
|----------|------------------------------|---------------------------------|---------------|-----------|------------|----------|
| 4-28-417 | 68.28 2.688 | 88.90 x 2.41 3.500 x 0.095 | 2813-0000 | H | 35 | |
| 4-28-307 | 55.58 2.188 | 88.90 x 2.41 3.500 x 0.095 | 2813-0000 | H | 22.5 | |

SPLINE TYPE:
HC = HARDY COATED
ST = STEEL



1550

STUB YOKE

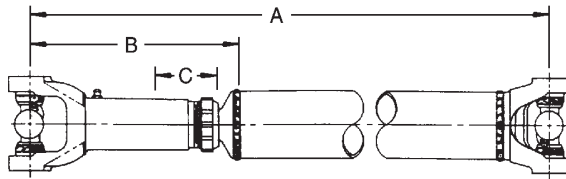
| PART No. | SPLINE DIA. & No. D | LENGTH OF SPLINE G | C/LINE TO END OF SPLINE L | SHOULDER TO END OF SPLINE N | SPLINE TYPE | MAX. ANGLE | COMMENTS |
|--------------|------------------------|-----------------------|------------------------------|--------------------------------|-------------|------------|----------|
| 4-82-191 | 63.50-16 2.500 | 39.68 1.562 | 115.87 4.562 | 60.33 2.375 | ST | 8 | |
| 4-82-201 # | 63.50-16 2.500 | 39.68 1.562 | 122.22 4.812 | 74.63 2.938 | ST | 8 | |
| 4-82-621-1 # | 63.50-16 2.500 | 39.68 1.562 | 131.32 5.170 | 84.53 3.328 | ST | 8 | |
| 4-82-621-2 # | 63.50-16 2.500 | 39.68 1.562 | 169.42 6.670 | 120.24 4.734 | ST | 8 | |

INDENT ONLY

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1550 HARDY SPICER

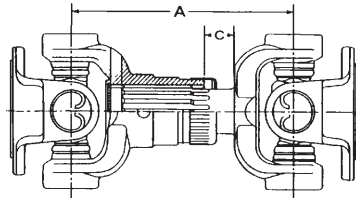


1550 TUBULAR TYPE ASSEMBLY CHART

MINIMUM TUBE LENGTH = 31.50mm (1.24")

| SLIP YOKE FEMALE PART No. | STUB MALE PART No. | C/LINE TO POINT OF WELD CLOSED B | TOTAL SLIP C | CLOSED LENGTH C/L TO C/L U.J.'s A | WELD YOKE | MAX. ANGLE OF ASSY. | TUBE PART No. & SIZE |
|---------------------------|--------------------|----------------------------------|-----------------|-----------------------------------|-----------|---------------------|----------------------------|
| 4-3-1241KX | 4-40-761 | 207.00 8.150 | 63.50 2.500 | 298.50 11.750 | 4-28-307 | 22 | 2813-0000 3.500 x 0.095 |
| 4-3-1431KX | 4-40-721 | 287.00 11.300 | 127.00 5.000 | 391.00 15.390 | 4-28-417 | 35 | 2813-0000 3.500 x 0.095 |

NOTE: ALSO AVAILABLE AS UNWELDED SHAFT 1550-PSA-1500 COMPLETE WITH 4-2-669 FLANGES



1550 SHORT COUPLED ASSEMBLY CHART

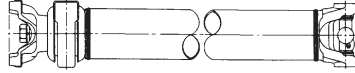
| SLIP YOKE FEMALE PART No. | STUB YOKE MALE PART No. | TOTAL SLIP C | MIN. C/L TO C/L U.J.'s CLOSED A | MAX. ANGLE OF ASSY. | COMMENTS |
|---------------------------|-------------------------|---------------|---------------------------------|---------------------|----------|
| 4-3-1261KX | 4-82-191 | 25.4 1.000 | 139.70 5.500 | 5 | |

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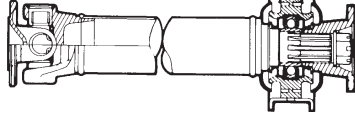
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HARDY SPICER 1550

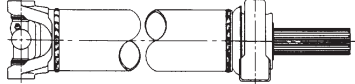
Shaft Assembly End Yoke Style



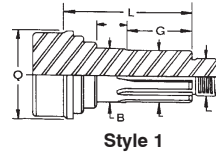
Companion Flange Style



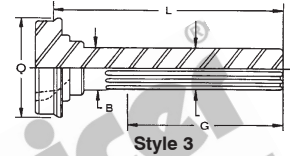
Shaft Assembly Slip Yoke Style



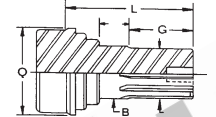
Midship Stubs



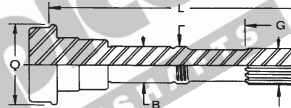
Style 1



Style 3



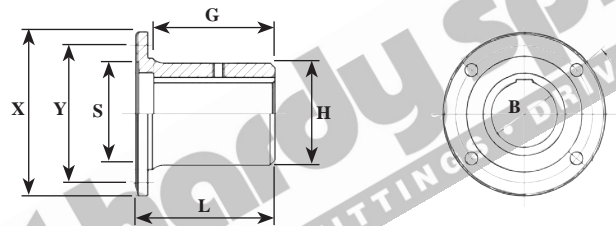
Style 2



Style 4

1550 CENTRE BEARING ASSEMBLY

| MIDSHIP STUB SHAFT PART No. | S T Y L E | SPLINE DIA. & No. | LENGTH OF SPLINE G | END OF SPLINE TO POINT OF WELD L | TUBE PART No. & SIZE Q | BEAR-ING I.D. B | CENTRE BEARING PART No. | SLIP YOKE/ COMPANION FLANGE/ END YOKE | COMMENTS |
|-----------------------------|-----------|-------------------|--------------------|----------------------------------|----------------------------|-----------------|-------------------------|---------------------------------------|-----------------|
| 4-53-61 | 3 | 44.45-16 1.750 | 150.87 5.940 | 217.42 8.560 | 2813-0000 3.500 x 0.095 | 45.00 1.771 | 210084-2X | 4-3-1241KX SLIP YOKE | DUST CAP DCK55B |
| K4-57-GB2651 | 2 | 38.10-10 1.500 | 50.80 2.000 | 103.50 4.075 | 2813-0000 3.500 x 0.095 | 40.00 1.574 | 210391-1X | 4-4-2051 END YOKE | & NUT 509-33 |
| K4-57-GB2651 | 2 | 38.10-10 1.500 | 50.80 2.000 | 103.50 4.075 | 2813-0000 3.500 x 0.095 | 40.00 1.575 | 210391-1X | K4-1-A2191 C/FLANGE | & NUT 509-33 |
| 4-53-341 | 1 | 44.45-10 1.750 | 57.94 2.281 | 110.34 4.344 | 2813-0000 3.500 x 0.095 | 45.00 1.771 | 210084-2X | K4-1-A0761 C/FLANGE | & KIT 231502 |
| 4-53-341 | 1 | 44.45-10 1.750 | 57.94 2.281 | 110.34 4.344 | 2813-0000 3.500 x 0.095 | 45.00 1.771 | 210084-2X | 4-4-1981-1 END YOKE | & KIT 231502 |



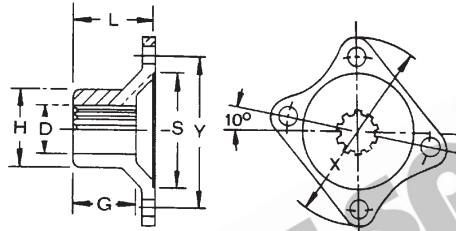
1550 COMPANION FLANGE

| RECTANGULAR TYPE - ROUND HOLE | | | | | | | | | | |
|-------------------------------|----------------|-----------------|-------------------|-----------------------------|--------------------|----------------------|-----------------|--------------------|-----------------|--------------------------------|
| PART No. | HOLE DIA. | HUB O.D. | MAX. BORE STD KEY | FLANGE FACE TO END OF HUB L | LENGTH THRU HOLE G | BOLT HOLE DIA. & No. | P.C.D. Y | SPIGOT DIA. S | FLANGE O.D. X | BOLT HOLE PATTERN |
| K4-1-A0913 | 20.00 0.787 | 101.10 3.980 | | 75.49 2.972 | 56.49 2.224 | 12.7 x 4 0.500 | 120.70 4.750 | F-95.25 M-3.750 | 142.98 5.629 | 77.55 x 92.42 3.053 x 3.639 |

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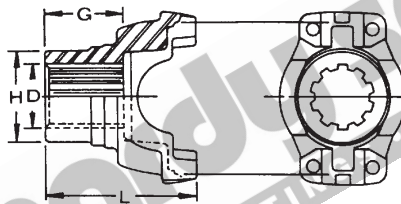
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1550 HARDY SPICER



1550 COMPANION FLANGE

| RECTANGULAR TYPE - SPLINED HOLE | | | | | | | | | | |
|---------------------------------|-------------------|----------|---------------------------|------------------|----------------------|--------|-------------|-------------|-------------------|-------|
| PART No. | SPLINE O.D. & No. | HUB O.D. | FLANGE FACE TO END OF HUB | LENGTH THRU HOLE | BOLT HOLE DIA. & No. | P.C.D. | SPIGOT DIA. | FLANGE O.D. | BOLT HOLE PATTERN | NOTES |
| | D | H | L | G | | Y | S | X | | |
| K4-1-A2191 | 38.10-10 | 49.21 | 63.30 | | 12.7 x 4 | 120.7 | F-95.25 | 142.98 | 77.55 x 92.42 | |
| | 1.500 | 1.938 | 2.492 | | 0.500 | 4.750 | F-3.750 | 5.629 | 2.410 x 2.872 | |
| K4-1-A0761 LARGE HUB | 44.45-10 | 65.15 | 76.20 | 57.15 | 12.7 x 4 | 12.07 | F-95.25 | 114.67 | 77.55 x 92.42 | |
| | 1.750 | 2.565 | 3.000 | 2.250 | 0.500 | 4.750 | 3.750 | 5.735 | 2.410 x 2.872 | |
| | | 55.55 | | | | | | | | |
| SMALL HUB | | 2.187 | | | | | | | | |



1550 END YOKE - HALF ROUND

| SPLINED HOLE | | | | | | | |
|-------------------|-------------------|-----------------|---------------|------------|-------------|---------|--|
| PART No. | SPLINE O.D. & No. | GROUND HUB O.D. | LENGTH OF HUB | C/L TO END | JOINT ANGLE | STYLE | COMMENTS |
| | D | H | G | L | | | |
| 4-4-1981-1 | 44.45-10 | 69.85 | 57.15 | 118.26 | 35 | B/STRAP | B/STRAP KIT TO SUIT PART No. 3-70-38X |
| | 1.750 | 2.750 | 2.250 | 4.656 | | | |
| 4-4-2051-1 | 38.10-10 | 49.23 | 50.80 | 96.04 | 22 | B/STRAP | B/STRAP KIT TO SUIT PART No. 3-70-38X |
| | 1.500 | 1.938 | 2.000 | 3.781 | | | |

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B1 = 134.94
5.31
E = 58.72
2.31
C = 47.63
1.87

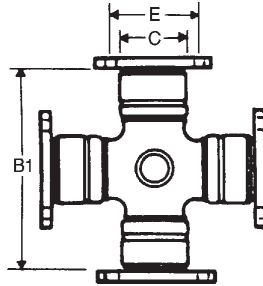


FIG. 1

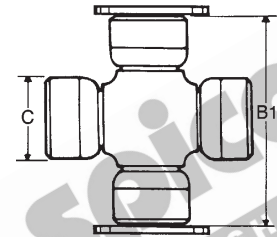


FIG. 2

1610

UNIVERSAL JOINT KIT

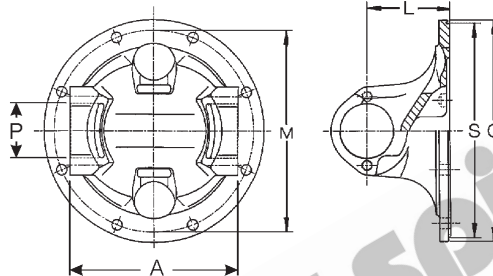
Refer to Section B:1 for dimensional data & hardware kits

| PART No. | LUBE | FIGURE | DESCRIPTION |
|----------|------|--------|--|
| 5-279X | SIDE | 1 | STANDARD JOINT |
| 5-279XD | SIDE | 1 | PREMIUM BRAND |
| 5-279XR | SIDE | 1 | PREMIUM ROCKWELL BRAND |
| 5-674X | SIDE | 2 | SUITS HALF ROUND YOKES C/W STRAP KIT |
| 5-674XD | SIDE | 2 | PREMIUM BRAND FOR HALF ROUND YOKES C/W STRAP KIT |

LOCK TABS AVAILABLE SEPARATELY. PART NUMBER 94-A764

STRAP KITS AVAILABLE SEPARATELY. PART NUMBER 5-70-28X

A - 134.94
5.31
P - 47.69
1.87



1610

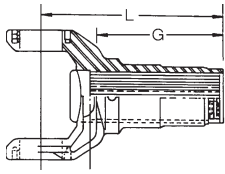
FLANGE YOKE

| PART No. | FLANGE DIA. C | C/L OF U.J. TO FACE L | SPIGOT DIA M=MALE F=FEMALE S | MAX. STATIC ANGLE | P.C.D. M | BOLT HOLE PATTERN | No. HOLES | HOLE DIA | DESCRIPTION |
|------------|------------------|--------------------------|---------------------------------------|-------------------|-----------------|---------------------------|-----------|----------------|---------------------------------|
| 5-2-279 | 174.62 6.875 | 69.85 2.750 | M-168.28 M-6.625 | 22 | 155.57 6.125 | EQUALLY SPACED | 8 | 9.53 0.375 | STANDARD |
| 5-2-379 | 174.62 6.875 | 47.63 1.875 | M-168.28 M-6.625 | 8 | 155.57 6.125 | EQUALLY SPACED | 8 | 9.53 0.375 | LOW ANGLE |
| 5-2-619 | 203.20 8.000 | 47.63 1.875 | M-196.85 M-7.750 | 8 | 184.15 6.125 | EQUALLY SPACED | 8 | 9.53 0.375 | 1610 EARS x 1710 FACE-LOW ANGLE |
| 5-2-629 | 203.20 8.000 | 69.85 2.750 | M-196.85 M-7.750 | 22 | 184.15 6.125 | EQUALLY SPACED | 8 | 9.53 0.375 | 1610 EARS x 1710 FACE |
| 5-2-A2089 | 150.00 5.906 | 85.00 3.346 | F-90.00 F-3.543 | 28 | 130.00 5.118 | EQUALLY SPACED | 8 | 9.53 0.375 | METRIC DIN 150mm x 8M12 |
| 5-2-180414 | 178.80 7.039 | 70.00 2.755 | M-90.00 M-3.543 | | 147.00 5.787 | 83 x 122 3.268 x 4.803 | 4 | 14.20 0.559 | SUIT MITSUBISHI |
| 5-2-244 | 155.80 6.134 | 70.00 2.755 | M-90.00 M-3.543 | | 140.00 5.512 | 75 x 118 2.953 x 4.646 | 4 | 14.20 0.559 | SUIT ISUZU |

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1610 HARDY SPICER



SUPPLIED WITH DUST CAP

Fig-1

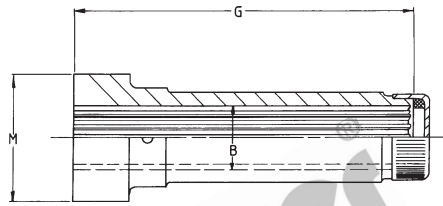
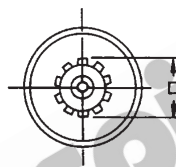
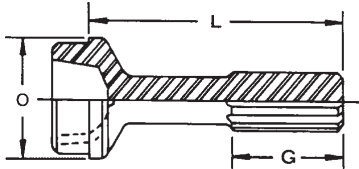


Fig-2

1610 SLIP YOKE

| PART No. | FIG | SPLINE O.D. & No. SPLINE D | C/LINE TO END OF L | LENGTH OF SPLINE G | JOINT ANGLE | DUST CAP KIT | COMMENTS |
|------------|-----|----------------------------|--------------------|--------------------|-------------|--------------|---|
| 5-3-2261KX | 1 | 50.80-16 2.000 | 274.62 10.812 | 215.00 8.465 | 35 | SJS61A | LONG 35° |
| 5-3-108KX | 1 | 50.80-16 2.000 | 198.42 7.812 | 130.15 5.124 | 22 | SJS61A | |
| 5-3-2141KX | 1 | 50.80-16 2.000 | 303.23 11.938 | 209.55 8.250 | 45 | SJS61A | LONG 45° |
| 5-3-288KX | 1 | 50.80-16 2.000 | 236.52 9.312 | 155.55 6.124 | 30 | SJS61A | MEDIUM |
| 5-3-168KX | 1 | 67.87-18 2.672 | 88.90 3.500 | 57.15 2.250 | 8 | DCK60A | SHORT COUPLED |
| 5-55-A0148 | 2 | 50.80-16 2.000 | N/A | 215.00 8.465 | | SJS61A | BUTT SIZE "M" = 90mm x 55mm SEMI FINISHED SLEEVE |



1610 STUB

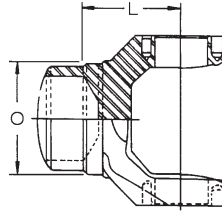
| PART No. | SPLINE TYPE: | | LENGTH OF SPLINE G | END OF SPLINE TO POINT OF WELD L | BUTT TYPE | BUTT TYPE: | | COMMENTS |
|-------------|---------------------|---------------------------------|--------------------|----------------------------------|-----------|-------------------------------|-------------------------|-----------------------|
| | SPLINE DIA. & No. D | HC = HARDY COATED ST = STEEL | | | | TUBE O.D. & THICKNESS O | H = HOLLOW S = SOLID | |
| 5-40-1041 | 50.80-16 2.000 | HC | 88.90 3.500 | 254.78 10.030 | S | 88.9 x 3.40 3.500 x 0.134 | 2810-0000 | LONG |
| 5-40-1011 | 50.80-16 2.000 | HC | 88.90 3.500 | 246.04 9.680 | S | 88.90 x 3.40 3.500 x 0.134 | 2810-0000 | MEDIUM |
| K5-42-A1081 | 50.80-16 2.000 | HC | 88.90 3.500 | 192.07 7.562 | S | 88.90 x 3.40 3.500 x 0.134 | 2810-0000 | |
| 5-40-1181 | 67.87-18 2.672 | S | 38.10 1.500 | 91.29 3.594 | S | 88.90 x 3.40 3.500 x 0.134 | 2810-0000 | USE WITH 5-3-168KX |
| 5-42-300 | 50.80-16 2.000 | ST | 300.00 11.811 | | | | | SPLINE BAR |

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HARDY SPICER 1610

BUTT TYPE:
H=HOLLOW
S=SOLID

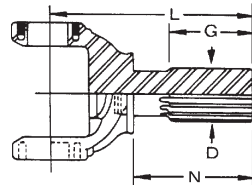


1610

WELD YOKE

| PART No. | C/LINE TO POINT OF WELD L | TUBE O.D. & WALL THICKNESS O | TUBE PART No. | BUTT TYPE | MAX. ANGLE | COMMENTS |
|----------|------------------------------|---------------------------------|---------------|-----------|------------|-------------|
| 5-28-627 | 76.20 3.000 | 88.90 x 3.40 3.500 x 0.134 | 2810-0000 | H | 35 | |
| 5-28-327 | 76.20 3.000 | 101.60 x 3.40 4.000 x 0.134 | 3210-0000 | H | 35 | |
| 5-28-167 | 76.20 3.000 | 88.90 x 2.400 3.500 x 0.095 | 2813-0000 | H | 35 | INDENT ONLY |

SPLINE TYPE:
HC=HARDY COAT
ST=STEEL



1610

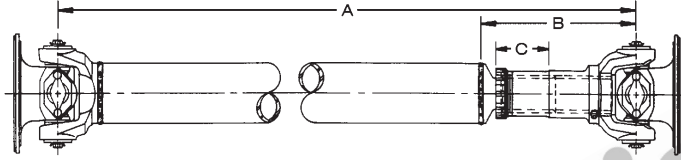
STUB YOKE

| PART No. | SPLINE DIA. & No. D | LENGTH OF SPLINE G | C/LINE TO END OF SPLINE L | SHOULDER TO END OF SPLINE N | SPLINE TYPE | MAX. ANGLE | COMMENTS |
|------------------------------------|------------------------|-----------------------|------------------------------|--------------------------------|-------------|------------|----------|
| 5-82-161 <i>INVOLUTE SPLINE</i> | 67.87-18 2.672 | 38.10 1.500 | 104.78 4.125 | 61.91 2.438 | ST | 8 | |
| 5-82-921 | 50.80-16 2.000 | 69.85 2.750 | 200.03 7.875 | 163.52 6.438 | HC | 22 | |
| 5-82-200 | 50.80-16 2.000 | 67.31 2.650 | 200.03 7.875 | 121.00 4.764 | ST | 35 | |
| 5-82-751-10 | 50.80-16 2.000 | 88.90 3.500 | 365.92 14.406 | 235.74 9.281 | HC | 45 | |
| 5-82-751-2 | 50.80-16 2.000 | 88.90 3.500 | 381.00 15.000 | 250.83 9.875 | HC | 45 | |
| 5-82-781 | 50.80-16 2.000 | 88.90 3.500 | 274.62 10.812 | 192.07 7.562 | HC | 22 | |
| 5-82-A661 | 50.80-16 2.000 | 88.90 3.500 | 265.00 10.433 | 170.00 6.693 | HC | 35 | |

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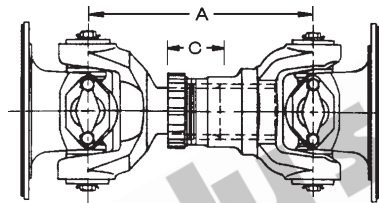
1610 HARDY SPICER



1610 TUBULAR TYPE ASSEMBLY CHART

MINIMUM TUBE LENGTH = 36.1mm (1.41")

| SLIP YOKE FEMALE PART No. | STUB MALE PART No. | C/LINE TO POINT OF WELD CLOSED B | TOTAL SLIP C | CLOSED LENGTH C/L TO C/L U.J.'s A | WELD YOKE | MAX. ANGLE OF ASSY. | TUBE PART No. & SIZE |
|---------------------------|--------------------|----------------------------------|-----------------|-----------------------------------|-----------|---------------------|----------------------------|
| 5-3-2261KX | 5-40-1041 | 315.00 12.400 | 125.90 4.920 | 449.00 17.680 | 5-28-627 | 22 | 2810-0000 3.500 x 0.134 |
| 5-3-108KX | K5-42-A1081 | 240.00 9.450 | 70.00 2.760 | 374.00 14.720 | 5-28-627 | 22 | 2810-0000 3.500 x 0.134 |
| 5-3-288KX | 5-40-1011 | 295.00 11.614 | 100.00 3.937 | 439.00 17.280 | 5-28-627 | 22 | 2810-0000 3.500 x 0.134 |



1610 SHORT COUPLED ASSEMBLY CHART

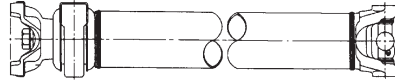
| SLIP YOKE FEMALE PART No. | STUB YOKE MALE PART No. | TOTAL SLIP C | MIN. C/L TO C/L U.J.'s CLOSED A | MAX. ANGLE OF ASSY. | COMMENTS |
|---------------------------|-------------------------|----------------|---------------------------------|---------------------|---|
| 5-3-168KX | 5-82-161 | 19.10 0.750 | 136.40 5.370 | 8 | |
| 5-3-288KX | 5-82-A661 | 70.00 2.750 | 350.00 13.78 | 30 | |
| 5-83-A010 SLIP ASSEMBLY | | 17.00 0.670 | 150.00 5.910 | 5 | PARTS NOT SOLD SEPARATELY SLIP & YOKE SHAFT ASSEMBLY |

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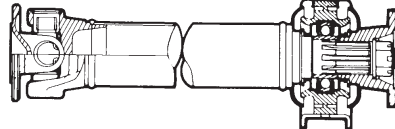
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HARDY SPICER 1610

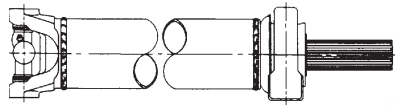
Shaft Assembly End Yoke Style



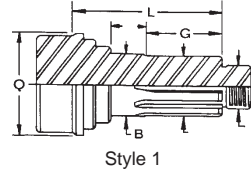
Companion Flange Style



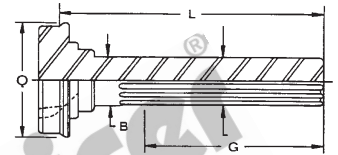
Shaft Assembly Slip Yoke Style



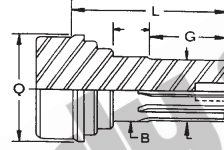
Midship Stubs



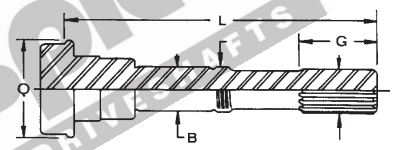
Style 1



Style 3



Style 2

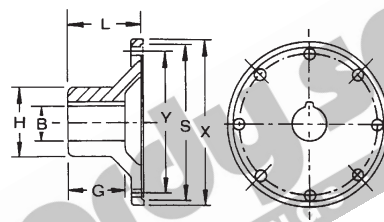


Style 4

1610

CENTRE BEARING ASSEMBLY

| MIDSHIP STUB SHAFT PART No. | S T Y L E | SPLINE DIA. & No. | LENGTH OF SPLINE G | END OF SPLINE TO POINT OF WELD L | TUBE PART No. & SIZE Q | BEARING I.D. B | CENTRE BEARING PART No. | SLIP YOKE/ COMPANION FLANGE/ END YOKE | COMMENTS |
|-----------------------------|-----------|-------------------|--------------------|----------------------------------|----------------------------|----------------|-------------------------|---------------------------------------|-------------------------------------|
| 5-53-141 | 1 | 44.45-10 1.750 | 52.38 2.062 | 108.74 4.281 | 2810-0000 3.500 x 0.134 | 45.00 1.771 | 210084-2X | K5-1-A0741 C/FLANGE | & NUT 231502 |
| 5-53-141 | 1 | 44.45-10 1.750 | 52.38 2.062 | 108.74 4.281 | 2810-0000 3.500 x 0.134 | 45.00 1.771 | 210084-2X | 5-4-1721 END YOKE | & NUT 231502 |
| 5-53-141 | 1 | 44.45-10 1.750 | 52.38 2.062 | 108.74 4.281 | 2810-0000 3.500 x 0.134 | 45.00 1.771 | 210084-2X | 5-4-1721-1 HALF/R YOKE | & NUT 231502 & STRAPKIT 5-70-28X |



1610

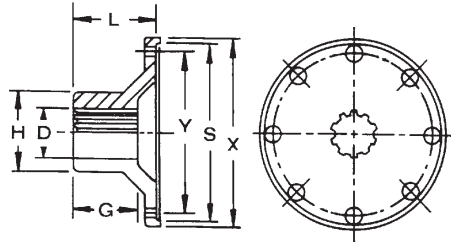
COMPANION FLANGE

| CIRCULAR TYPE - ROUND HOLE | | | | | | | | | | |
|----------------------------|----------------|----------------|-------------------|-----------------------------|--------------------|----------------------|-----------------|---------------------|-----------------|-------------------|
| PART No. | HOLE DIA. | HUB O.D. | MAX. BORE STD KEY | FLANGE FACE TO END OF HUB L | LENGTH THRU HOLE G | BOLT HOLE DIA. & No. | P.C.D. Y | SPIGOT DIA. S | FLANGE O.D. X | BOLT HOLE PATTERN |
| K5-1-GB1783 | 25.40 1.000 | 139.7 5.500 | | 93.68 3.688 | 76.20 3.000 | 9.53 x 8 0.375 | 155.60 6.125 | F-168.28 F-6.625 | 174.63 6.875 | EQUALLY SPACED |

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1610 HARDY SPICER



1610 COMPANION FLANGE

| CIRCULAR TYPE - SPLINED HOLE | | | | | | | | | | |
|------------------------------|-------------------|----------|---------------------------|------------------|----------------------|--------|-------------|-------------|-------------------|-------|
| PART No. | SPLINE O.D. & No. | HUB O.D. | FLANGE FACE TO END OF HUB | LENGTH THRU HOLE | BOLT HOLE DIA. & No. | P.C.D. | SPIGOT DIA. | FLANGE O.D. | BOLT HOLE PATTERN | NOTES |
| | D | H | L | G | | Y | S | X | | |
| K5-1-A0741 | 44.45-10 | 65.15 | 76.20 | 57.15 | 9.53 x 8 | 155.6 | F-168.28 | 174.63 | EQUALLY SPACED | |
| LARGE HUB | 1.750 | 2.565 | 3.000 | 2.250 | 0.375 | 6.125 | F-6.625 | 6.875 | | |
| SMALL HUB | | 55.54 | | | | | | | | |
| | | 2.187 | | | | | | | | |
| 5-1-150812 | 44.45-10 | 70.00 | 66.20 | 57.00 | 12.2 x 8 | 130.0 | M-90.00 | 150.00 | EQUALLY SPACED | |
| | 1.750 | 2.756 | 2.606 | 2.244 | 0.480 | 5.118 | 3.543 | 5.906 | | |

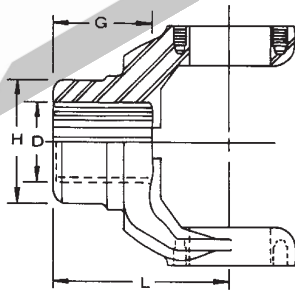


Fig 1

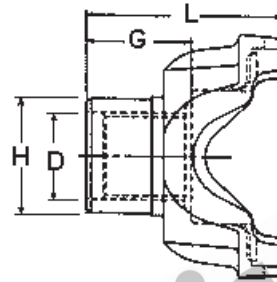


Fig 2

1610 END YOKE

| SPLINED HOLE | | | | | | | | |
|-------------------|-----|-------------------|-----------------|------------------|------------|-------------|------------|---|
| PART No. | Fig | SPLINE O.D. & No. | GROUND HUB O.D. | LENGTH OF OF HUB | C/L TO END | JOINT ANGLE | STYLE | COMMENTS |
| | | D | H | G | L | | | |
| 5-4-1721 | 1 | 44.45-10 | 55.58 | 57.15 | 104.80 | 22° | FULL ROUND | SUIT MIDSHIP STUB |
| | | 1.750 | 2.188 | 2.250 | 4.125 | | | |
| 5-4-1721-1 | 2 | 44.45-10 | 55.58 | 57.15 | 104.80 | 22° | HALF ROUND | STRAP KIT 5-70-28X SUIT MIDSHIP STUB |
| | | 1.750 | 2.188 | 2.250 | 4.125 | | | |
| 5-4-3621 | 1 | 44.45-10 | 69.85 | 57.15 | 127.00 | 25° | FULL ROUND | |
| | | 1.750 | 2.750 | 2.250 | 5.000 | | | |
| 5-4-5281X | 1 | 49.78-10 | 69.85 | 66.68 | 130.18 | 24° | FULL ROUND | |
| | | 1.960 | 2.750 | 2.625 | 5.125 | | | |
| 5-4-1661-1 | 2 | 50.80-10 | 69.85 | 76.20 | 138.91 | 21° | HALF ROUND | STRAP KIT 5-70-28X |
| | | 2.000 | 2.750 | 3.000 | 5.469 | | | |
| 5-4-4861 | 1 | 60.70-46 | 88.90 | 86.13 | 155.57 | 17° | FULL ROUND | |
| | | 2.390 | 3.500 | 3.391 | 6.125 | | | |

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HARDY SPICER 1710

B1 = 154.78
 6.09
 E = 61.90
 2.31
 C = 49.21
 1.93

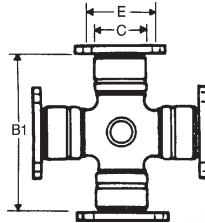


FIG. 1

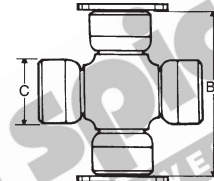


FIG. 2

1710

UNIVERSAL JOINT KIT

| PART No. | LUBE | FIGURE | DESCRIPTION |
|----------|------|--------|--|
| 5-280X | SIDE | 1 | STANDARD JOINT |
| 5-280XD | SIDE | 1 | PREMIUM BRAND |
| 5-280XR | SIDE | 1 | PREMIUM ROCKWELL BRAND |
| 5-675X | SIDE | 2 | SUITS 1/2 ROUND YOKES C/W STRAP KIT |
| 5-675XD | SIDE | 2 | PREMIUM BRAND FOR HALF ROUND YOKES C/W STRAP KIT |

LOCK TABS AVAILABLE SEPARATELY. PART NUMBER 94-A339

STRAP KITS AVAILABLE SEPARATELY. PART NUMBER 6-5-70-18X

1710

OTHER UNIVERSAL JOINT KIT

Refer to Section B:1 for dimensional data & hardware kits

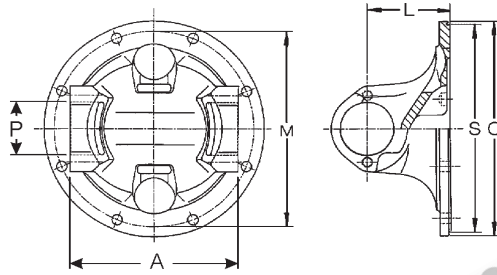
| PART No. | LUBE | DESCRIPTION |
|----------|------|-------------------------------|
| K5-A696 | | CONVERSION 1710 - 8.5C SERIES |

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1710 HARDY SPICER

A - 154.78
6.09
P - 49.21
1.93



1710 FLANGE YOKE

| PART No. | FLANGE DIA. C | C/L OF U.J. TO FACE L | SPIGOT DIA | | MAX. STATIC ANGLE | P.C.D. M | BOLT HOLE PATTERN | No. HOLES | HOLE DIA | DESCRIPTION |
|------------|------------------|--------------------------|-------------------------|--|-------------------|-----------------|-------------------------------|-----------|----------------|--------------------------|
| | | | M=MALE F=FEMALE S | | | | | | | |
| 6-2-749 | 203.20 8.000 | 76.20 3.000 | M-196.85 M-7.750 | | 22 | 184.15 7.250 | EQUALLY SPACED | 8 | 9.53 0.375 | STANDARD |
| 6-2-769 | 203.20 8.000 | 50.80 2.000 | M-196.85 M-7.750 | | 8 | 184.15 7.250 | EQUALLY SPACED | 8 | 9.53 0.375 | LOW ANGLE |
| 6-2-A2279 | 180.00 7.087 | 86.50 3.405 | F-110.00 F-4.330 | | 22 | NIL | NIL | NIL | NIL | SEMI FINISHED 180mm O.D. |
| 6-2-A2149 | 165.00 6.496 | 102.00 4.016 | F-95.00 F-3.740 | | 30 | 140.00 5.512 | EQUALLY SPACED | 8 | 16.10 0.634 | METRIC DIN 165 x 8M16 |
| 6-2-A2159 | 180.00 7.087 | 86.50 3.405 | F-110.00 F-4.330 | | 22 | 155.50 6.122 | EQUALLY SPACED | 8 | 14.10 0.555 | METRIC DIN 180 x 8M14 |
| 6-2-A2169 | 180.00 7.087 | 86.00 3.484 | F-110.00 F-4.330 | | 22 | 155.50 6.122 | EQUALLY SPACED | 10 | 16.10 0.634 | METRIC DIN 180 x 10M16 |
| K56-2-GB99 | 174.62 6.875 | 98.00 3.858 | M-168.27 M-6.625 | | 22 | 155.57 6.125 | EQUALLY SPACED | 8 | 9.53 0.375 | 1710 EARS 1610 FACE |
| 6-2-192416 | 192.00 7.559 | 90.00 3.543 | M-90.00 M-3.543 | | | 156.00 6.142 | 80.0 x 134.0 3.150 x 5.276 | 4 | 16.20 0.638 | SUIT MITSUBISHI |
| 6-2-197416 | 197.00 7.756 | 0.00 0.000 | M-100.00 M-3.937 | | | 0.00 0.000 | 92.0 x 131.0 3.622 x 5.157 | 4 | 16.00 0.630 | SUIT ISUZU |
| 6-2-203613 | 203.00 7.992 | 77.60 3.055 | M-120.00 M-4.330 | | | 180.00 7.087 | 2 x 3 SETS | 6 | 13.10 0.516 | SUIT MITSUBISHI |

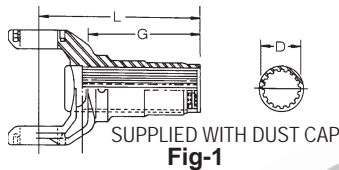


Fig-1

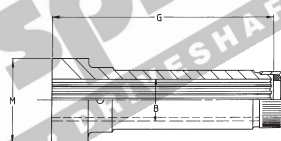


Fig-2

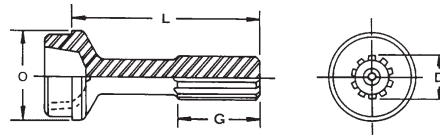
1710 SLIP YOKE

| PART No. | FIG | SPLINE O.D. & No. SPLINE D | C/LINE TO END OF L | LENGTH OF SPLINE G | JOINT ANGLE | DUST CAP KIT | COMMENTS |
|------------|-----|-------------------------------|-----------------------|-----------------------|-------------|--------------|---|
| | | | | | | | |
| 6-3-2651KX | 1 | 63.50-16 2.500 | 296.88 11.688 | 234.95 9.250 | 30 | SJS71A | LONG |
| 6-3-2551KX | 1 | 63.50-16 2.500 | 323.06 12.719 | 241.30 9.500 | 45 | SJS71A | WIDE ANGLE |
| 6-3-1661KX | 1 | 82.55-18 3.250 | 104.78 4.125 | 69.60 2.740 | 8 | | SHORT COUPLED |
| 6-55-A0158 | 2 | 63.50-16 2.500 | N/A | 255.00 10.039 | N/A | SJS71A | BUTT SIZE "M" = 100mm x 52mm SEMI FINISHED SLEEVE |

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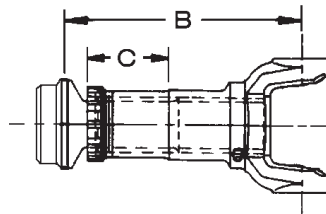


1710

STUB

| SPLINE TYPE: | | | | HC = HARDY COATED ST = STEEL | | BUTT TYPE: | | H = HOLLOW S = SOLID | |
|--------------|-------------------|-------------|------------------|---------------------------------|-----------|--------------------------------|---------------|-------------------------|--|
| PART No. | SPLINE DIA. & No. | SPLINE TYPE | LENGTH OF SPLINE | END OF SPLINE TO POINT OF WELD | BUTT TYPE | TUBE O.D. & THICKNESS | TUBE PART No. | COMMENTS | |
| | D | | G | L | | O | | | |
| 6-40-541 | 63.50-16 2.500 | HC | 101.60 4.000 | 235.00 9.250 | H | 101.60 x 3.40 4.000 x 0.134 | 3210-0000 | STANDARD | |
| 6-40-521 | 63.50-16 2.500 | HC | 101.60 4.000 | 268.22 10.560 | H | 101.60 x 3.40 4.000 x 0.134 | 3210-0000 | LONG | |

Mechanics 8C Stubs may be used as a alternative



1710

SLIP / STUB ASSEMBLY

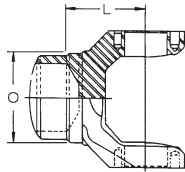
| ASSEMBLY PART No. | C/LINE TO POINT OF WELD CLOSED B | SLIP YOKE PART No. | MALE STUB PART No. | TOTAL SLIP C | MAX. ANGLE | COMMENTS |
|-------------------|----------------------------------|--------------------|--------------------|-----------------|------------|----------|
| 6-84-278 | 280.00 11.020 | 6-3-2671KX | 6-40-541 | 98.60 3.880 | 21 | |
| 6-84-330 | 330.00 12.990 | 6-3-2651KX | 6-40-521 | 133.40 5.250 | 29 | |
| 6-84-352 | 352.00 13.858 | 6-3-2551KX | 6-40-521 | 133.40 5.250 | 45 | |

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1710 HARDY SPICER

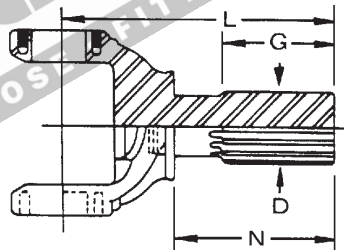
BUTT TYPE:
H=HOLLOW
S=SOLID



1710 WELD YOKE

| PART No. | C/LINE TO POINT OF WELD L | TUBE O.D. & WALL THICKNESS O | TUBE PART No. | BUTT TYPE | MAX. ANGLE | COMMENTS |
|----------|------------------------------|---------------------------------|---------------|-----------|------------|---|
| 6-28-347 | 76.96 3.030 | 101.60 x 3.40 4.000x 0.134 | 3210-0000 | H | 30 | HEAVY DUTY APPLICATIONS USE 3207-0000 (4.09 x 0.180) TUBE |
| 6-28-467 | 93.67 3.688 | 101.60 x 3.40 4.000 x 0.134 | 3210-0000 | H | 45 | HEAVY DUTY APPLICATIONS USE 3207-0000 (4.09 x 0.180) TUBE |

SPLINE TYPE:
HC=HARDY COAT
ST=STEEL



1710 STUB YOKE

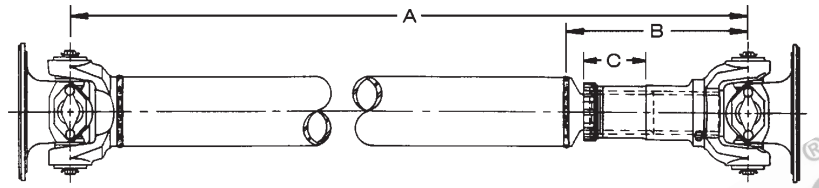
| PART No. | SPLINE DIA. & No. D | LENGTH OF SPLINE G | C/LINE TO END OF SPLINE L | SHOULDER TO END OF SPLINE N | SPLINE TYPE | MAX. ANGLE | COMMENTS |
|-----------------------------|------------------------|-----------------------|------------------------------|--------------------------------|-------------|------------|----------|
| 6-82-341 INVOLUTE SPLINE | 82.55-18 3.250 | 50.80 2.000 | 133.35 5.250 | 79.38 3.125 | ST | 8 | |
| 6-82-1251 | 63.50-16 2.500 | 76.20 3.000 | 207.17 8.156 | 137.32 5.406 | HC | 22.5 | |
| 6-82-1171-10 | 63.50-16 2.500 | 88.90 3.500 | 245.27 9.656 | 160.34 6.313 | HC | 24 / 29 | |
| 6-82-1281-6 | 63.50-16 2.500 | 88.90 3.500 | 270.67 10.656 | 175.42 6.906 | HC | 45 | |
| 6-82-1281 | 63.50-16 2.500 | 88.90 3.500 | 307.18 12.094 | 211.93 8.344 | HC | 45 | |
| 6-82-1091-1 | 63.50-16 2.500 | 101.60 4.000 | 308.77 12.156 | 215.11 8.469 | HC | 24 / 29 | |
| 6-82-1091-8 | 63.50-16 2.500 | 101.60 4.000 | 321.46 12.656 | 227.80 8.969 | HC | 24 / 29 | |
| 6-82-1061-1 | 63.50-16 2.500 | 101.60 4.000 | 355.60 14.000 | 230.98 9.094 | HC | 45 | |
| 6-82-1091-4 | 63.50-16 2.500 | 101.60 4.000 | 341.31 13.438 | 247.65 9.750 | HC | 24 / 29 | |
| 6-82-1061-15 | 63.50-16 2.500 | 101.60 4.000 | 349.25 13.750 | 244.48 9.625 | HC | 45 | |
| 6-82-1061-3 | 63.50-16 2.500 | 101.60 4.000 | 381.79 15.031 | 257.18 10.125 | HC | 45 | |
| 6-82-1091-3 | 63.50-16 2.500 | 101.60 4.000 | 359.57 14.156 | 265.91 10.469 | HC | 24 / 29 | |
| 6-82-1091-5 | 63.50-16 2.500 | 101.60 4.000 | 369.89 14.563 | 276.23 10.875 | HC | 24 / 29 | |

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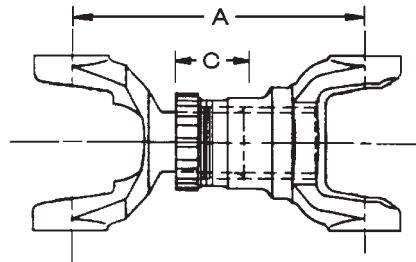


1710 TUBULAR TYPE ASSEMBLY CHART

MINIMUM TUBE LENGTH = 59.7mm (2.35")

| SLIP YOKE FEMALE PART No. | STUB MALE PART No. | C/LINE TO POINT OF WELD CLOSED B | TOTAL SLIP C | CLOSED LENGTH C/L TO C/L U.J.'s A | WELD YOKE | MAX. ANGLE OF ASSY. | TUBE PART No. & SIZE |
|---------------------------|--------------------|----------------------------------|-----------------|-----------------------------------|-----------|---------------------|----------------------------|
| 6-3-2671KX | 6-40-541 | 280.00 11.020 | 98.60 3.880 | 414.30 16.310 | 6-28-347 | 21 | 3210-0000 4.000 x 0.134 |
| 6-3-2651KX | 6-40-521 | 330.00 12.990 | 133.40 5.250 | 466.90 18.830 | 6-28-347 | 25 | 3210-0000 4.000 x 0.134 |
| 6-3-2551KX | 6-40-521 | 352.00 13.858 | 133.40 5.250 | 505.67 19.908 | 6-28-467 | 45 | 3210-0000 4.000 x 0.134 |

3207-0000 (4.09 X 0.180) Tube can be used for heavy duty applications



1710 SHORT COUPLED ASSEMBLY

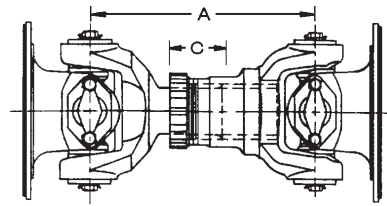
| COMPLETE ASSEMBLY PART No. | C/LINE TO C/LINE CLOSED A | SLIP YOKE PART No. | MALE YOKE SHAFT PART No. | TOTAL SLIP C | MAX. ANGLE | COMMENTS |
|----------------------------|---------------------------|--------------------|--------------------------|-----------------|------------|----------|
| 6-83-A011 | 168.20 15.827 | 6-3-1661KX | 6-82-341 | 19.05 0.750 | 8 | |
| 6-83-402 | 402.00 15.827 | 6-3-2651KX | 6-82-1061-15 | 133.40 5.250 | 30 | |
| 6-83-420 | 420.00 16.535 | 6-3-2551KX | 6-82-1061-15 | 139.00 5.472 | 45 | |
| 6-83-437 | 437.00 17.205 | 6-3-2551KX | 6-82-1061-1 | 139.00 5.472 | 45 | |
| 6-83-463 | 463.00 18.228 | 6-3-2551KX | 6-82-1061-3 | 139.00 5.472 | 45 | |

Note: Sold as complete assemblies only.

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1710 HARDY SPICER



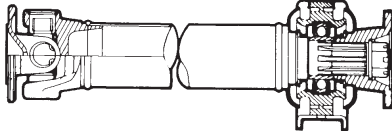
1710 SHORT COUPLED ASSEMBLY CHART

| SLIP YOKE FEMALE PART No. | STUB YOKE MALE PART No. | TOTAL SLIP C | MIN. C/L TO C/L U.J.'s CLOSED A | MAX. ANGLE OF ASSY. | COMMENTS |
|---------------------------|-------------------------|-----------------|---------------------------------|---------------------|---|
| 6-3-1661KX | 6-82-341 | 19.10 0.750 | 168.20 6.620 | 8 | AVAILABLE WHILE STOCKS LAST USE COMPLETE ASSY NUMBER 6-83-A011 |
| 6-3-2651KX | 6-82-1091-5 | 133.35 5.250 | 431.80 17.000 | 24 / 29 | |
| 6-3-2651KX | 6-82-1091-4 | 133.35 5.250 | 403.35 15.880 | 24 / 29 | |
| 6-3-2671KX | 6-82-1091-1 | 98.55 3.880 | 352.55 13.880 | 20 | |
| 6-3-2671KX | 6-82-1091-3 | 98.55 3.880 | 403.35 15.880 | 20 | |

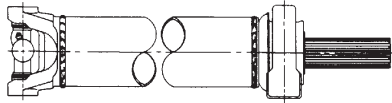
Shaft Assembly End Yoke Style



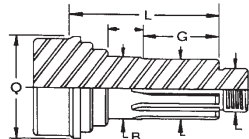
Companion Flange Style



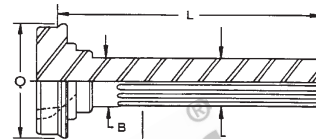
Shaft Assembly Slip Yoke Style



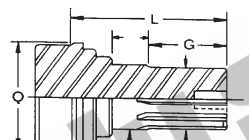
Midship Stubs



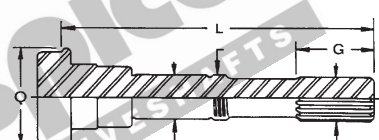
Style 1



Style 3



Style 2



Style 4

1710 CENTRE BEARING ASSEMBLY

| MIDSHIP STUB SHAFT PART No. | S T Y L E | SPLINE DIA. & No. | LENGTH OF SPLINE G | END OF SPLINE TO POINT OF WELD L | TUBE PART No. & SIZE Q | BEAR-ING I.D. B | CENTRE BEARING PART No. | SLIP YOKE/ COMPANION FLANGE/ END YOKE | COMMENTS |
|-----------------------------|-----------|-------------------|--------------------|----------------------------------|----------------------------|-----------------|-------------------------|---|--|
| 6-53-311 | 1 | 59.69-16 2.350 | 66.80 2.630 | 134.87 5.310 | 3210-0000 4.000 x 0.134 | 60.00 2.362 | 210661-1X see Note 1 | 6-4-4601* END YOKE 6-1-A2211 C/FLANGE 6-1-A2221 C/FLANGE | NUT 231502, WASHER 510-27 1710 FACE SEMI FINISHED |
| 6-53-201 | 1 | 49.60-10 1.950 | 76.20 3.000 | 130.96 5.156 | 3210-0000 4.000 x 0.134 | 50.00 1.969 | 210121-1X see Note 2 | 6-4-1981□ END YOKE | & NUT 231502, WASHER 510-27 |

3207-0000 (4.09 x 0.180) Tube can be used for heavy duty applications

Note 1 - 210875-1X Centre Bearing can be used for Heavy Duty applications

Note 2 - 210881-1X Centre Bearing can be used for Heavy Duty applications

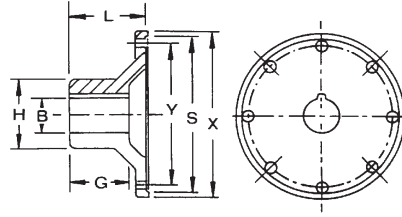
* Can also use 6-4-4601-1 Half Round Yoke

□ Can also use 6-4-1981-1 Half Round Yoke

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HARDY SPICER 1710

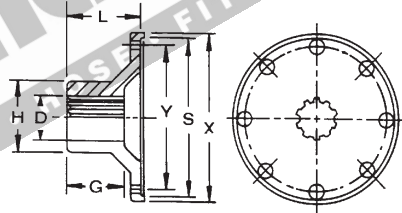


1710

COMPANION FLANGE

CIRCULAR TYPE - ROUND HOLE

| PART No. | HOLE DIA. | HUB O.D. | MAX. BORE STD KEY | FLANGE FACE TO END OF HUB | LENGTH THRU HOLE | BOLT HOLE DIA. & No. | P.C.D. | SPIGOT DIA. | FLANGE O.D. | BOLT HOLE PATTERN |
|-----------|----------------|-----------------|-------------------|---------------------------|------------------|----------------------|-----------------|---------------------|-----------------|-------------------|
| | B | H | | L | G | | Y | S | X | |
| 6-1-A2233 | 25.00 0.984 | 168.34 6.628 | | 92.50 3.642 | 90.00 3.543 | 9.53 x 8 0.375 | 184.15 7.250 | F-196.85 F-7.750 | 203.20 8.000 | EQUALLY SPACED |



1710

COMPANION FLANGE

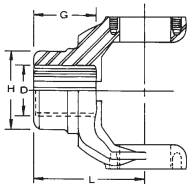
CIRCULAR TYPE - SPLINED HOLE

| PART No. | SPLINE O.D. & No. | HUB O.D. | FLANGE FACE TO END OF HUB | LENGTH THRU HOLE | BOLT HOLE DIA & No. | P.C.D. | SPIGOT DIA. | FLANGE O.D. | BOLT HOLE PATTERN | NOTES |
|-----------------------|-------------------|----------------|--|------------------|---------------------|-----------------|---------------------|-----------------|-------------------|-----------------------|
| | D | H | L | G | | Y | S | X | | |
| 6-1-A2211 | 59.69-16 2.35 | | | | 9.53 x 8 0.375 | 184.15 7.250 | F-196.85 F-7.750 | 203.20 8.000 | EQUALLY SPACED | SUIT STUB 6-53-311 |
| 6-1-A2221 | 59.69-16 2.35 | | | | N/A | N/A | N/A | 240.00 9.449 | EQUALLY SPACED | SEMI FINISHED |
| SC-1-292 LARGE HUB | 54.77-22 2.156 | 84.07 3.310 | 84.84 3.340 | 83.00 3.260 | 9.53 x 8 0.375 | 184.15 7.250 | F-196.85 7.750 | 203.20 8.000 | EQUALLY SPACED | SCANIA SPLINE |
| SMALL HUB | | 73.15 2.880 | Machine seal to Scania size Machine flange to suit Scania nut | | | | | | | |

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1710 HARDY SPICER



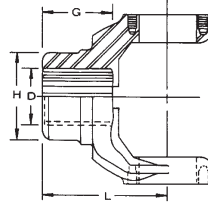
1710 MIDSHIP END YOKES

| SPLINED HOLE | | | | | | | |
|--------------|------------------------------|----------------------------|-----------------------------|--------------------|----------------|---------------|-----------------------------|
| PART No. | SPLINE O.D. & No. D | GROUND HUB O.D. H | LENGTH OF OF HUB G | C/L TO END L | JOINT ANGLE | STYLE | COMMENTS |
| 6-4-1981 | 50.01-10 1.969 | 61.93 2.438 | 76.20 3.000 | 127.00 5.000 | 21 | FULL ROUND | |
| 6-4-1981-1 | 50.01-10 1.969 | 61.93 2.438 | 76.20 3.000 | 127.00 5.000 | 21 | HALF ROUND | USE STRAP KIT 6-5-70-18X |
| 6-4-4601 | 59.54-16 2.344 | 73.03 2.875 | 69.85 2.750 | 125.43 4.938 | 20 | FULL ROUND | |
| 6-4-4601-1 | 59.54-16 2.344 | 73.03 2.875 | 69.85 2.750 | 125.43 4.938 | 20 | HALF ROUND | USE STRAP KIT 6-5-70-18X |

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HARDY SPICER 1710



1710

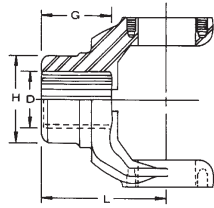
SPLINED END YOKES

| PART No. | SPLINE O.D. & No. D | GROUND HUB O.D. H | LENGTH THROUGH HUB G | C/L TO END L | JOINT ANGLE | SLINGER PART No. / YOKE INCL SLINGER | COMMENTS / APPLICATION |
|----------|------------------------------|----------------------------|-------------------------------|--------------------|----------------|--|--|
| 6-4-2381 | 1.75"x10 44.45 | 2.75" 69.85 | 2.250" 57.15 | 4.88" 123.95 | 25 | | SLHD-SQHD |
| 6-4-6331 | 1.77"x34 44.96 | 2.50" 63.50 | 2.250" 57.15 | 4.88" 123.95 | 28 | 231101 (6-4-5131X) | SP40-SL.SQ100 |
| 6-4-6321 | 1.77"x34 44.96 | 2.50" 63.50 | 2.250" 57.15 | 5.97" 151.64 | 45 | 231101 (6-4-5111X) | SLHP-SQHP |
| 6-4-6481 | 1.79"x34 45.47 | 2.63" 66.80 | 2.438" 61.93 | 5.44" 138.18 | 34 | | Late Eaton DS. DP. DT 340-40-401-402-451 |
| 6-4-6451 | 1.79"x34 45.47 | 2.63" 66.80 | 2.438" 61.93 | 6.31" 160.27 | 45 | | Late Eaton DS.SP.ST 340-40-401-402-451 |
| 6-4-3221 | 1.96"x10 49.78 | 2.75" 69.85 | 2.625" 66.68 | 5.25" 133.35 | 21 | 98-1362 (6-4-4361X) | SSHD Early |
| 6-4-3291 | 1.96"x10 49.78 | 3.00" 76.20 | 2.250" 57.15 | 4.56" 115.82 | 20 | | International Diff |
| 6-4-3241 | 2.00"x10 50.80 | 2.94" 74.68 | 2.562" 65.07 | 5.19" 131.83 | 25 | 98-1361 (6-4-4291X) | SLHD-SQHD |
| 6-4-6401 | 2.02"x39 51.31 | 3.00" 76.20 | 2.327" 59.11 | 5.16" 131.06 | 33 | 231102 (6-4-6411X) 231359 (6-4-6421X) | SP40-SL.SQ100 |
| 6-4-5991 | 2.02"x39 51.31 | 2.63" 66.80 | 2.250" 57.15 | 5.25" 133.35 | 33 | 230909 (6-4-6001X) | Late Eaton DS.DP.DT 340-40-401-402-451 |
| 6-4-5521 | 2.02"x39 51.31 | 2.75" 69.85 | 2.438" 61.93 | 5.25" 133.35 | 33 | 231599 (6-4-6951X) | SSHD Late |
| 6-4-6011 | 2.02"x39 51.31 | 2.63" 66.80 | 2.250" 57.15 | 6.13" 155.70 | 45 | 230909 (6-4-6021X) | Late Eaton DS.DP.DT 340-40-401-402-451 |
| 6-4-6371 | 2.02"x39 61.31 | 3.00" 76.20 | 2.312" 58.72 | 6.25" 158.75 | 43.5 | 231102 (6-4-6381X) 231359 (6-4-6391X) | RT140-145-RT380 |
| 6-4-5501 | 2.02"x39 51.31 | 2.75" 69.85 | 2.438" 61.93 | 6.50" 165.10 | 35 | 231599 (6-4-6871X) | SSHD Late |
| 6-4-7551 | 2.14"x41 54.36 | 2.94" 74.68 | 2.500" 63.50 | 6.13" 155.70 | 42 | 231028 (6-4-7561X) 232604 (6-4-9181X) | Eaton DS.DP 461-651 |
| 6-4-7541 | 2.14"x41 54.36 | 2.94" 74.68 | 3.000" 76.20 | 6.63" 168.40 | 42 | 231028 (6-4-7651X) 232609 (6-4-9191X) | Eaton DS.DP 461-651 |
| 6-4-1991 | 2.25"x10 57.15 | 3.00" 76.20 | 3.000" 76.20 | 6.06" 153.92 | 24 | 230921 (6-4-4411X) | SSHD Early |
| 6-4-8461 | 2.27"x44 57.66 | 2.94" 74.68 | 2.500" 63.50 | 5.19" 131.83 | 27 | 231022 (6-4-6041X) | Late Eaton DS.DP.DT 340-40-401-402-451 |

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1710 SPLINED END YOKES cont.

| PART No. | SPLINE O.D. & No. D | GROUND HUB O.D. H | LENGTH THROUGH HUB G | C/L TO END L | JOINT ANGLE | SLINGER PART No. / YOKE INCL SLINGER | COMMENTS / APPLICATION |
|------------|------------------------------|----------------------------|-------------------------------|--------------------|----------------|---|--|
| 6-4-5711 | 2.36"x36 59.94 | 3.000" 76.20 | 2.688" 68.28 | 5.44" 138.18 | 22 | 231750 (6-4-7191X) | International Diff |
| 6-4-7161 | 2.37"x46 60.20 | 3.250" 82.55 | 2.328" 59.13 | 5.39" 136.91 | 29 | 231803 (6-4-7181X) | RT145-RT160 |
| 6-4-5451 | 2.37"x46 60.20 | 3.250" 82.55 | 2.625" 66.68 | 5.69" 144.53 | 22 | 231179 (6-4-5461X) | SSHD Late |
| 6-4-6961X | 2.37"x46 60.20 | 3.250" 82.55 | 2.875" 73.03 | 5.94" 150.88 | 26 | 231615 | |
| 6-4-7761 | 2.37"x46 60.20 | 3.250" 82.55 | 2.344" 59.54 | 6.50" 165.10 | 45 | 231803 (6-4-7771X) | RT145-160 |
| 6-4-4771-1 | 2.39"x46 60.71 | 3.500" 88.90 | 3.375" 85.73 | 5.75" 146.05 | 16 | | |
| 6-4-6611 | 2.50"x10 63.50 | 3.750" 95.25 | 3.000" 76.20 | 5.62" 142.75 | 30 | 231616 (6-4-6921X) | Roadranger RT613,RT6613, RT910,915,9513 |
| 6-4-7071X | 2.64"x20 67.06 | 3.750" 95.25 | 2.750" 69.85 | 5.19" 131.83 | 21 | 231745 | |
| 6-4-4551 | 2.75"x10 69.85 | 3.500" 88.90 | 3.000" 76.20 | 5.75" 146.05 | 22 | 230674 (6-4-5251X) | Roadranger RT12 & 14 series with 3.500" seal / hub diameter |
| 6-4-6821 | 2.75"x10 69.85 | 3.750" 95.25 | 3.000" 76.20 | 5.75" 146.05 | 22 | 231616 (6-4-6931X) | Roadranger RT14613,14615 14715,15615,15613,16718B 16609,16613,16618,18718B & various others with 3.750" |

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HARDY SPICER 1760

B1 = 177.80
7.00
E = 61.90
2.31
C = 49.21
1.93

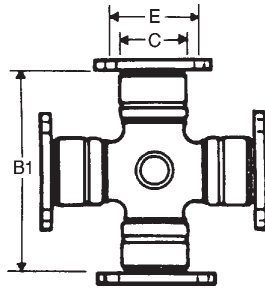


FIG. 1

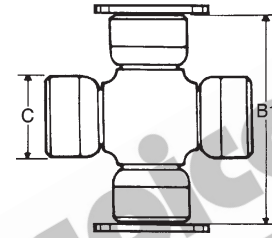


FIG. 2

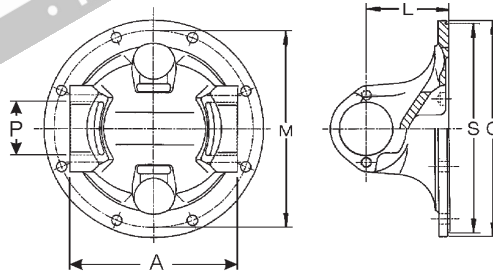
1760

UNIVERSAL JOINT KIT

| PART No. | LUBE | FIGURE | DESCRIPTION |
|----------|------|--------|---|
| 5-407X | SIDE | 1 | STANDARD JOINT |
| 5-407XD | SIDE | 1 | PREMIUM BRAND |
| 5-677XD | SIDE | 2 | PREMIUM SPICER BRAND HALF ROUND C/W STRAP KIT |

LOCK TABS AVAILABLE SEPARATELY. PART NUMBER 94-A339

A - 177.80
7.00
P - 49.21
1.93



1760

FLANGE YOKE

| PART No. | FLANGE DIA. | C/L OF U.J. TO FACE | SPIGOT DIA M=MALE F=FEMALE | MAX. STATIC ANGLE | P.C.D. | BOLT HOLE PATTERN | No. HOLES | HOLE DIA | DESCRIPTION |
|----------|-----------------|---------------------|----------------------------|-------------------|-----------------|---------------------|-----------|----------------|-------------|
| | C | L | S | | M | | | | |
| 6-3-2-19 | 203.20 8.000 | 85.73 3.375 | M-196.85 M-7.750 | 30 | 184.15 7.250 | 4 x GROUPS OF THREE | 12 | 11.13 0.438 | STANDARD |

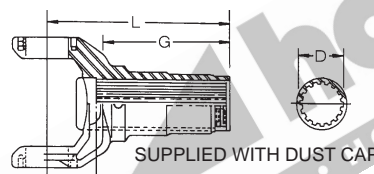


Fig-1

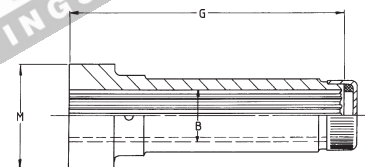


Fig-2

1760

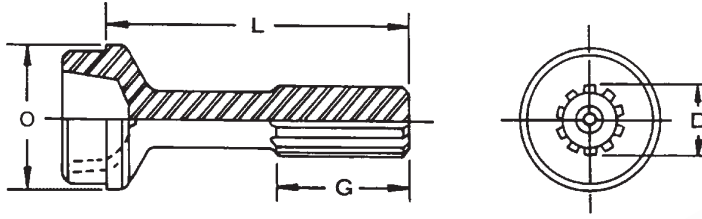
SLIP YOKE

| PART No. | FIG | SPLINE O.D. & No. SPLINE | C/LINE TO END OF | LENGTH OF SPLINE | JOINT ANGLE | DUST CAP KIT | COMMENTS |
|------------|-----|--------------------------|------------------|------------------|-------------|--------------|---|
| | | D | L | G | | | |
| 6-3-3-41KX | 1 | 63.50-16 2.500 | 234.95 9.250 | 160.73 6.328 | 20 | SJS71A | |
| 6-55-A0158 | 1 | 63.50-16 2.500 | N/A | 255.00 10.039 | N/A | SJS71A | BUTT SIZE "M" = 100mm x 52mm SEMI FINISHED SLEEVE |

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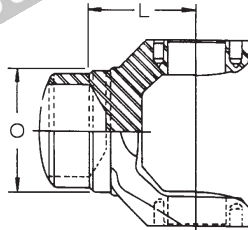
1760 HARDY SPICER



1760 STUB

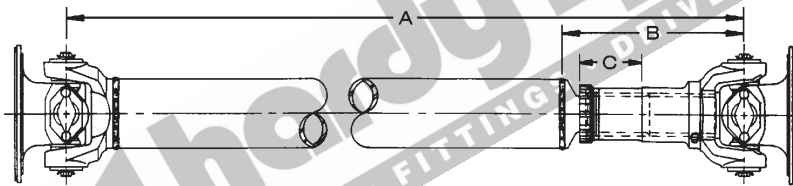
| SPLINE TYPE: | | HC = HARDY COATED ST = STEEL | | | BUTT TYPE: | | H = HOLLOW S = SOLID | | COMMENTS |
|--------------|-------------------|---------------------------------|------------------|--------------------------------|------------|-------------------------------|-------------------------|----------|----------|
| PART No. | SPLINE DIA. & No. | SPLINE TYPE | LENGTH OF SPLINE | END OF SPLINE TO POINT OF WELD | BUTT TYPE | TUBE O.D. & THICKNESS | TUBE PART No. | | |
| | D | | G | L | | O | | | |
| 6-40-541 | 63.50-16 2.500 | HC | 101.60 4.000 | 235.00 9.250 | S | 103.9 x 4.57 4.090 x 0.180 | 3207-0000 | STANDARD | |

BUTT TYPE:
H=HOLLOW
S=SOLID



1760 WELD YOKE

| PART No. | C/LINE TO POINT OF WELD L | TUBE O.D. & WALL THICKNESS O | TUBE PART No. | BUTT TYPE | MAX. ANGLE | COMMENTS |
|-----------|------------------------------|---------------------------------|---------------|-----------|------------|----------|
| 6-3-28-17 | 76.96 3.030 | 103.89 x 4.57 4.090 x 0.180 | 3207-0000 | H | 30 | |



1760 TUBULAR TYPE ASSEMBLY CHART

MINIMUM TUBE LENGTH = 58.7mm (2.31")

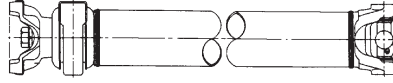
| SLIP YOKE FEMALE PART No. | STUB MALE PART No. | C/LINE TO POINT OF WELD CLOSED B | TOTAL SLIP C | CLOSED LENGTH C/L TO C/L U.J.'s A | WELD YOKE | MAX. ANGLE OF ASSY. | TUBE PART No. & SIZE |
|---------------------------|--------------------|-------------------------------------|-----------------|--------------------------------------|-----------|---------------------|----------------------------|
| 6-3-3-41KX | 6-40-541 | 275.00 10.830 | 98.60 3.880 | 411.00 16.100 | 6-3-28-17 | 30 | 3207-0000 4.090 x 0.180 |

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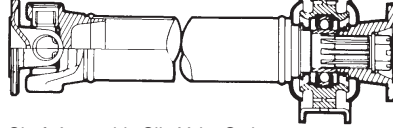
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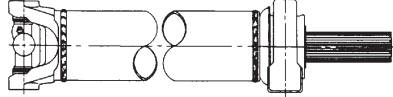
Shaft Assembly End Yoke Style



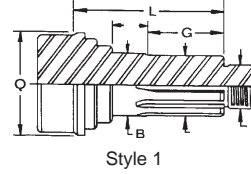
Companion Flange Style



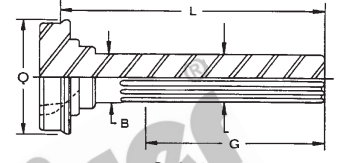
Shaft Assembly Slip Yoke Style



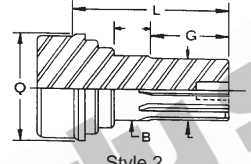
Midship Stubs



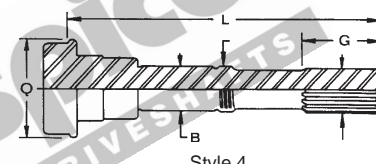
Style 1



Style 3



Style 2



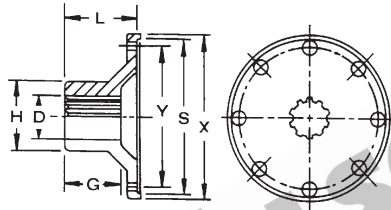
Style 4

1760

CENTRE BEARING ASSEMBLY

| MIDSHIP STUB SHAFT PART No. | S T Y L E | SPLINE DIA. & No. | LENGTH OF SPLINE G | END OF SPLINE TO POINT OF WELD L | TUBE PART No. & SIZE Q | BEAR-ING I.D. B | CENTRE BEARING PART No. | SLIP YOKE/ COMPANION FLANGE/ END YOKE | COMMENTS |
|-----------------------------|-----------|-------------------|--------------------|----------------------------------|----------------------------|-----------------|-------------------------|---------------------------------------|--------------------------------|
| 6-53-311 | 1 | 59.51-16 2.340 | 66.67 2.620 | 134.92 5.310 | 3207-0000 4.090 x 0.180 | 60.00 2.362 | 210661-1X see Note | 6-3-4-161 END YOKE | & NUT 231502, WASHER 510-27 |

Note - 210875-1X centre bearing can be used for Heavy Duty applications



1760

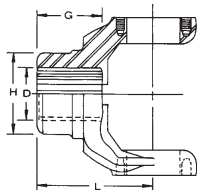
COMPANION FLANGE

| CIRCULAR TYPE - SPLINED HOLE | | | | | | | | | | |
|------------------------------|-------------------|----------|-----------------------------|--------------------|----------------------|----------|---------------|---------------|---------------------------|--|
| PART No. | SPLINE O.D. & No. | HUB O.D. | FLANGE FACE TO END OF HUB L | LENGTH THRU HOLE G | BOLT HOLE DIA. & No. | P.C.D. Y | SPIGOT DIA. S | FLANGE O.D. X | BOLT HOLE PATTERN | NOTES |
| SC-1-291 | 54.77-22 | 84.07 | 84.84 | 64.52 | 11.2 x 12 | 184.15 | F-196.85 | 203.20 | 4 x GROUPS OF THREE @ 45° | SCANIA SPLINE |
| LARGE HUB | 2.156 | 3.310 | 3.340 | 2.540 | 0.441 | 7.250 | F-7.750 | 8.000 | | |
| SMALL HUB | | 73.152 | | | | | | | | Machine seal to Scania size Machine flange to suit Scania nut |

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1760 HARDY SPICER



1760 END YOKE

| SPLINED HOLE | | | | | | | |
|--------------|------------------------------|----------------------------|-----------------------------|--------------------|----------------|---------------|----------|
| PART No. | SPLINE O.D. & No. D | GROUND HUB O.D. H | LENGTH OF OF HUB G | C/L TO END L | JOINT ANGLE | STYLE | COMMENTS |
| 6-3-4-161 | 59.54-16 2.344 | 73.03 2.875 | 69.85 2.750 | 139.70 5.500 | 30 | FULL ROUND | |

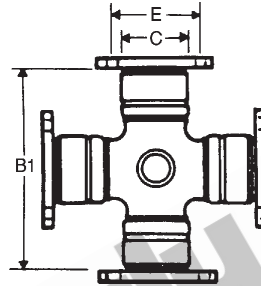
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HARDY SPICER 1800

REPLACEMENT PARTS ONLY
FOR COMPLETE ASSEMBLIES USE 1810 SERIES

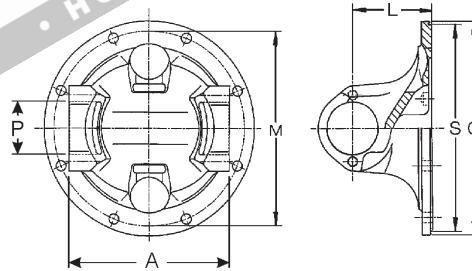
B1 = 167.49
6.59
E = 71.44
2.81
C = 58.74
2.31



1800 UNIVERSAL JOINT KIT

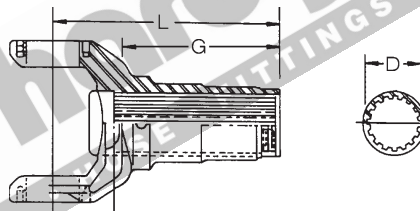
| PART No. | LUBE | DESCRIPTION |
|----------|------|----------------|
| 5-124X | SIDE | STANDARD JOINT |

A - 167.49
6.59
P - 58.74
2.31



1800 FLANGE YOKE

| PART No. | FLANGE DIA. | C/L OF U.J. TO FACE | SPIGOT DIA M=MALE F=FEMALE S | MAX. STATIC ANGLE | P.C.D. | BOLT HOLE PATTERN | No. HOLES | HOLE DIA | DESCRIPTION |
|------------|-----------------|---------------------|---------------------------------------|-------------------|-----------------|---------------------|-----------|----------------|-------------|
| | C | L | S | | M | | | | |
| 6-5-2-GB79 | 203.20 8.000 | 85.73 3.375 | M-196.85 M-7.750 | 25 | 184.15 7.250 | 4 x GROUPS OF THREE | 12 | 11.13 0.438 | STANDARD |



SUPPLIED WITH DUST CAP

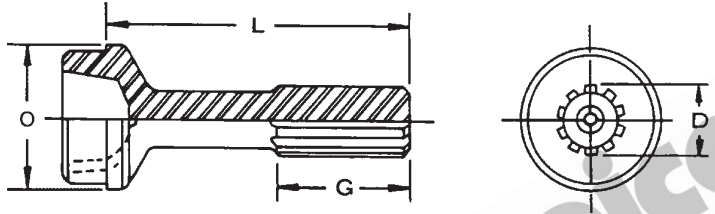
1800 SLIP YOKE

| PART No. | SPLINE O.D. & No. | C/LINE TO END OF SPLINE | LENGTH OF SPLINE | JOINT ANGLE | DUST CAP KIT | COMMENTS |
|------------|-------------------|-------------------------|------------------|-------------|--------------|----------|
| | D | L | G | | | |
| 6-5-3-38KX | 76.20-10 3.000 | 322.00 12.677 | 196.00 7.716 | 30 | | |

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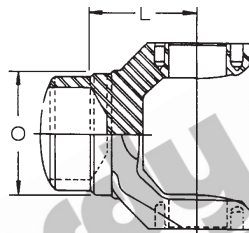
1800 HARDY SPICER



1800 STUB

| SPLINE TYPE: | | HC = HARDY COATED ST = STEEL | | | BUTT TYPE: | | H = HOLLOW S = SOLID | | COMMENTS |
|--------------|-------------------|---------------------------------|------------------|--------------------------------|------------|-------------------------------|-------------------------|--|----------|
| PART No. | SPLINE DIA. & No. | SPLINE TYPE | LENGTH OF SPLINE | END OF SPLINE TO POINT OF WELD | BUTT TYPE | TUBE O.D. & THICKNESS | TUBE PART No. | | |
| | D | | G | L | | O | | | |
| 6-5-42-121 | 76.20-10 3.000 | ST | 111.00 4.370 | 233.00 9.173 | H | 88.90 x 4.70 3.500 x 0.185 | | | |

BUTT TYPE:
H=HOLLOW
S=SOLID



1800 WELD YOKE

| PART No. | C/LINE TO POINT OF WELD | TUBE O.D. & WALL THICKNESS | TUBE PART No. | BUTT TYPE | MAX. ANGLE | COMMENTS |
|--------------|-------------------------|-------------------------------|---------------|-----------|------------|----------|
| | L | O | | | | |
| 6-5-26-GB107 | 92.20 3.360 | 88.90 x 4.78 3.500 x 0.188 | | H | 30 | |

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HARDY SPICER 1810

B1 = 191.69
7.55
E = 61.90
2.31
C = 49.21
1.93

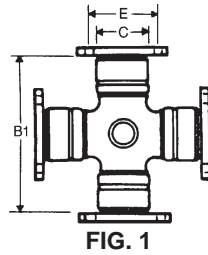


FIG. 1

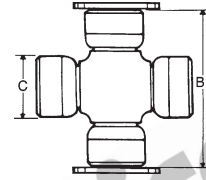


FIG. 2

1810 UNIVERSAL JOINT KIT

| PART No. | LUBE | FIGURE | DESCRIPTION |
|----------|------|--------|--|
| 5-281X | SIDE | 1 | STANDARD JOINT |
| 5-281XD | SIDE | 1 | PREMIUM BRAND |
| 5-281XR | SIDE | 1 | PREMIUM ROCKWELL BRAND |
| 5-676X | SIDE | 2 | SUITS HALF ROUND C/W STRAP KIT |
| 5-676XD | SIDE | 2 | PREMIUM BRAND FOR HALF ROUND YOKES C/W STRAP KIT |
| 5-510XR | SIDE | 2 | PREMIUM ROCKWELL HALF ROUND USE STRAP KIT 6-5-70-18X |

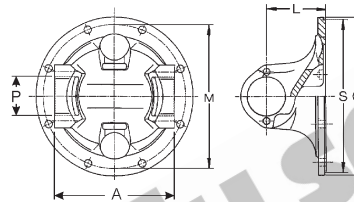
LOCK TABS AVAILABLE SEPARATELY. PART NUMBER 94-A339

1810 CONVERSION UNIVERSAL JOINT KITS

Refer to Section B:1 for dimensional data & hardware kits

| PART No. | LUBE | DESCRIPTION |
|----------|------|------------------------------------|
| 5-324X | | CONVERSION 1810 - 9C SERIES |
| 5-324XD | | PREMIUM BRAND 1810 - 9C CONVERSION |

A - 191.69
7.55
P - 49.21
1.93



1810 FLANGE YOKE

| PART No. | FLANGE DIA. | C/L OF U.J. TO FACE | SPIGOT DIA M=MALE F=FEMALE | MAX. STATIC ANGLE | P.C.D. M | BOLT HOLE PATTERN | No. HOLES | HOLE DIA | DESCRIPTION |
|-------------|-----------------|---------------------|----------------------------------|-------------------|-----------------|-------------------------------|-----------|----------------|--------------------------|
| 6-5-2-329 | 203.20 8.000 | 85.73 3.375 | M-196.85 M-7.750 | 30 | 184.15 7.250 | 4 x GROUPS OF THREE | 12 | 11.13 0.438 | STANDARD |
| 6-5-2-329-1 | 203.20 8.000 | 85.73 3.375 | M-196.85 M-7.750 | 30 | 184.15 7.250 | 4 x GROUPS OF THREE | 12 | 11.13 0.438 | QUICK RELEASE HALF ROUND |
| 6-5-2-359 | 203.20 8.000 | 65.79 2.594 | M-196.85 M-7.750 | 12 | 184.15 7.250 | 4 x GROUPS OF THREE | 12 | 11.13 0.438 | LOW ANGLE |
| 6-5-2-A2179 | 180.00 7.087 | 88.50 3.484 | F-110.00 F-4.330 | 30 | 155.50 6.122 | EQUALLY SPACED | 8 | 14.10 0.555 | METRIC DIN 180mm x 8M14 |
| 6-5-2-A2189 | 180.00 7.087 | 92.00 3.622 | F-110.00 F-4.330 | 30 | 155.50 6.122 | EQUALLY SPACED | 10 | 16.10 0.634 | METRIC DIN 180mm x 10M16 |
| 6-5-2-180KV | 180.00 7.087 | 90.00 3.543 | | | 155.50 5.906 | 122.9 x 86.0 4.838 x 3.386 | 4 | 15.10 0.594 | Ø180mm KV 70° |
| 6-5-2-47# | 203.20 7.087 | 85.73 3.375 | | 30 | | | - | | BLANK FACE |

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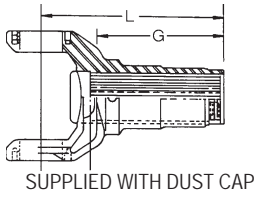


Fig-1

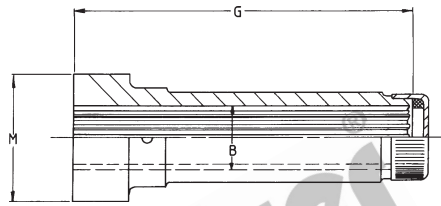
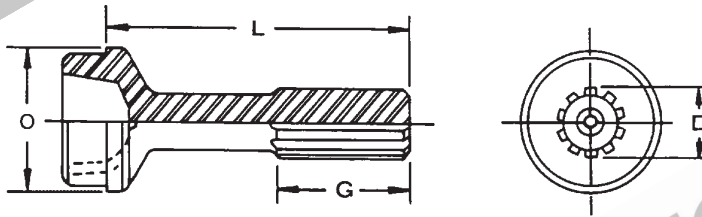


Fig-2

1810 SLIP YOKE

| PART No. | FIG | SPLINE O.D. & No. SPLINE D | C/LINE TO END OF L | LENGTH OF SPLINE G | JOINT ANGLE | DUST CAP KIT | COMMENTS |
|--------------|-----|----------------------------|--------------------|--------------------|-------------|--------------|---|
| 6-5-3-1351KX | 1 | 76.20-16 3.000 | 260.35 10.250 | 200.03 7.875 | 30 | SJS81A | STANDARD |
| 6-5-3-1371KX | 1 | 76.20-16 3.000 | 301.50 11.875 | 241.30 9.500 | 30 | SJS81A | LONG |
| 6-5-3-1451KX | 1 | 52.55-18 3.250 | 136.53 5.375 | 98.43 3.875 | 12 | D6E# | SHORT COUPLED SLIP YOKE |
| 6-5-55-A0168 | 2 | 76.20-16 3.000 | N/A | 280.00 11.023 | N/A | SJS81A | BUTT SIZE "M"=114.3mm x 55mm SEMI FINISHED SLEEVE |

INDENT PART



1810 STUB

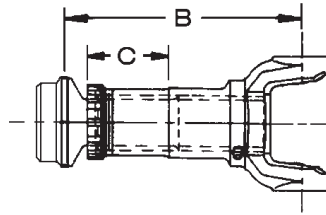
| PART No. | SPLINE TYPE: | | | BUTT TYPE: | | TUBE O.D. & THICKNESS | TUBE PART No. | COMMENTS |
|------------|---------------------|-------------|--------------------|----------------------------------|-----------|--------------------------------|---------------|------------------------|
| | SPLINE DIA. & No. D | SPLINE TYPE | LENGTH OF SPLINE G | END OF SPLINE TO POINT OF WELD L | BUTT TYPE | | | |
| 6-5-40-201 | 76.20-16 3.000 | HC | 114.30 4.500 | 240.48 9.460 | H | 114.30 x 3.40 4.500 x 0.134 | 3610-0000 | STANDARD |
| 6-5-40-191 | 76.20-16 3.000 | HC | 114.30 4.500 | 285.75 11.250 | H | 114.30 x 3.40 4.500 x 0.134 | 3610-0000 | LONG |
| 8-40-101 | 76.20-16 3.000 | HC | 114.30 4.500 | 292.86 11.530 | H | 114.30 x 6.58 4.500 x 0.259 | 3603-0000 | LONG HEAVY DUTY |
| 8-40-91 | 76.20-16 3.000 | HC | 114.30 4.500 | 251.46 9.900 | H | 114.30 x 6.58 4.500 x 0.259 | 3603-0000 | STANDARD HEAVY DUTY |
| 6-5-40-141 | 76.20-16 3.000 | HC | 114.30 4.500 | 274.62 10.812 | S | 90.17 x 5.26 3.550 x 0.207 | | |

Medium Duty applications may use 3607-0000 (4.59 x 0.180) Tube instead of 3610-0000 (4.50 x 0.134)

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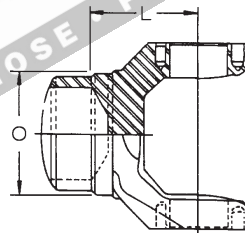
HARDY SPICER 1810



1810 SLIP / STUB ASSEMBLY

| ASSEMBLY PART No. | C/LINE TO POINT OF WELD CLOSED B | SLIP YOKE PART No. | MALE STUB PART No. | TOTAL SLIP C | MAX. ANGLE | COMMENTS |
|-------------------|----------------------------------|--------------------|--------------------|-----------------|------------|----------|
| 6-5-84-300 | 301.00 11.850 | 6-5-3-1351KX | 6-5-40-201 | 85.70 3.370 | 30 | |
| 6-5-84-346 | 350.00 13.780 | 6-5-3-1371KX | 6-5-40-191 | 127.00 5.000 | 30 | |

BUTT TYPE:
H=HOLLOW
S=SOLID

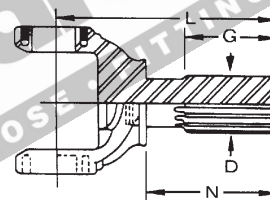


1810 WELD YOKE

| PART No. | C/LINE TO POINT OF WELD L | TUBE O.D. & WALL THICKNESS O | TUBE PART No. | BUTT TYPE | MAX. ANGLE | COMMENTS |
|------------|---------------------------|--------------------------------|---------------|-----------|------------|------------|
| 6-5-28-117 | 85.72 3.376 | 114.30 x 3.40 4.500 x 0.134 | 3610-0000 | H | 30 | STANDARD |
| 6-5-28-127 | 85.72 3.376 | 114.30 x 6.58 4.500 x 0.259 | 3603-0000 | H | 30 | HEAVY DUTY |
| 6-5-28-137 | 85.72 3.376 | 90.17 x 5.26 3.550 x 0.207 | | H | 30 | INTER AXLE |

Medium Duty applications may use 3607-0000 (4.59 x 0.180) Tube instead of 3610-0000 (4.50 x 0.134)

SPLINE TYPE:
HC=HARDY COAT
ST=STEEL



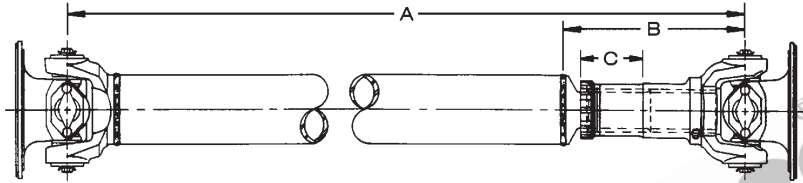
1810 STUB YOKE

| PART No. | SPLINE DIA. & No. D | LENGTH OF SPLINE G | C/LINE TO END OF SPLINE L | SHOULDER TO END OF SPLINE N | SPLINE TYPE | MAX. ANGLE | COMMENTS |
|--------------------------|---------------------|--------------------|---------------------------|-----------------------------|-------------|------------|----------|
| 6-5-82-511-1 INVOLUTE | 82.55-18 3.250 | 69.85 2.750 | 170.66 6.719 | 106.36 4.188 | ST | 12 | |
| 6-5-82-451-1 | 76.20-16 3.000 | 101.60 4.000 | 290.51 11.438 | 198.44 7.813 | HC | 30 | |

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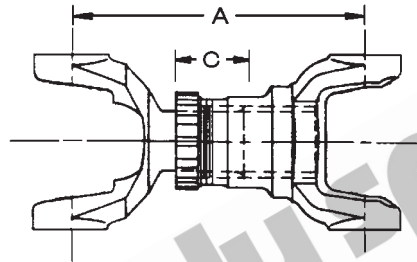
1810 HARDY SPICER



1810 TUBULAR TYPE ASSEMBLY CHART

| MINIMUM TUBE LENGTH = 70.6mm (2.78") | | | | | | | |
|--------------------------------------|--------------------|----------------------------------|--------------|-----------------------------------|------------|---------------------|----------------------------|
| SLIP YOKE FEMALE PART No. | STUB MALE PART No. | C/LINE TO POINT OF WELD CLOSED B | TOTAL SLIP C | CLOSED LENGTH C/L TO C/L U.J.'s A | WELD YOKE | MAX. ANGLE OF ASSY. | TUBE PART No. & SIZE |
| 6-5-3-1351KX | 6-5-40-201 | 301.00 | 85.70 | 457.20 | 6-5-28-117 | 30 | 3610-0000 4.500 x 0.134 |
| | | 11.850 | 3.370 | 18.000 | | | |
| 6-5-3-1351KX | 8-40-91 | 305.56 | 85.7 | 468.38 | 6-5-28-127 | 30 | 3603-0000 4.500 x 0.259 |
| | | 12.030 | 3.370 | 18.440 | | | |
| 6-5-3-1371KX | 6-5-40-191 | 350.00 | 127.00 | 501.70 | 6-5-28-117 | 30 | 3610-0000 4.500 x 0.134 |
| | | 13.780 | 5.000 | 19.750 | | | |
| 6-5-3-1371KX | 8-40-101 | 360.00 | 127.00 | 509.50 | 6-5-28-127 | 30 | 3603-0000 4.500 X 0.259 |
| | | 14.170 | 5.000 | 20.060 | | | |

Medium Duty applications may use 3607-0000 (4.59 x 0.180) Tube instead of 3610-0000 (4.50 x 0.134)



1810 SHORT COUPLED ASSEMBLY

| COMPLETE ASSEMBLY PART No. | C/LINE TO C/LINE CLOSED A | SLIP YOKE PART No. | MALE YOKE SHAFT PART No. | TOTAL SLIP C | MAX. ANGLE | COMMENTS |
|----------------------------|---------------------------|--------------------|--------------------------|--------------|------------|----------|
| 6-5-83-300# | 300.00 | 6-5-3-1431KX | 6-5-82-451-1 | 85.00 | 30 | |
| | 11.811 | | | 3.346 | | |
| 6-5-83-411# | 411.00 | 6-5-3-1371KX | 6-5-82-461-8 | 127.00 | 30 | |
| | 16.181 | | | 5.000 | | |
| 6-5-83-443# | 443.00 | 6-5-3-1371KX | 6-5-82-461-10 | 127.00 | 30 | |
| | 17.441 | | | 5.000 | | |
| 6-5-83-474# | 474.00 | 6-5-3-1371KX | 6-5-82-461-12 | 127.00 | 30 | |
| | 18.661 | | | 5.000 | | |

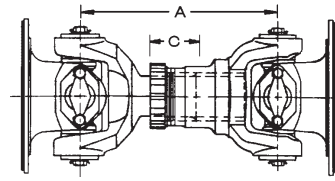
Note: Sold as complete assemblies only.

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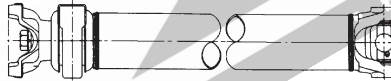
HARDY SPICER 1810



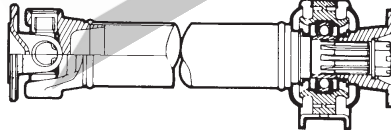
1810 SHORT COUPLED ASSEMBLY CHART

| SLIP YOKE FEMALE PART No. | STUB YOKE MALE PART No. | TOTAL SLIP C | MIN. C/L TO C/L U.J.'s CLOSED A | MAX. ANGLE OF ASSY. | COMMENTS |
|---------------------------|-------------------------|----------------|---------------------------------|---------------------|--------------------------------|
| 6-5-3-1451KX | 6-5-82-511-1 | 28.50 1.120 | 208.50 8.210 | 12 | |
| 6-5-3-1351KX* | 6-5-82-451-1 | 85.85 3.380 | 330.20 13.000 | 30 | * Shorten to 8.938" (227.03mm) |

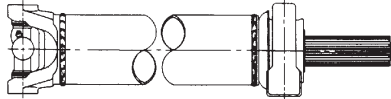
Shaft Assembly End Yoke Style



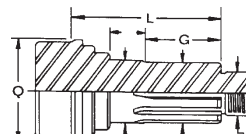
Companion Flange Style



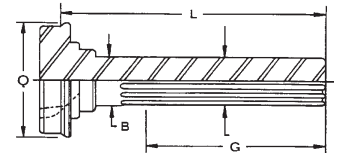
Shaft Assembly Slip Yoke Style



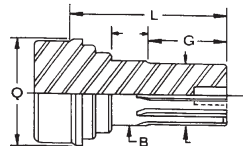
Midship Stubs



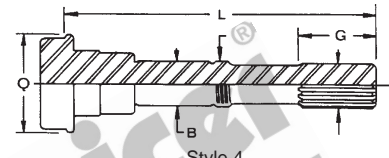
Style 1



Style 3



Style 2



Style 4

1810 CENTRE BEARING ASSEMBLY

| MIDSHIP STUB SHAFT PART No. | S T Y L E | SPLINE DIA. & No. | LENGTH OF SPLINE G | END OF SPLINE TO POINT OF WELD L | TUBE PART No. & SIZE Q | BEAR-ING I.D. B | CENTRE BEARING PART No. | SLIP YOKE/ COMPANION FLANGE/ END YOKE | COMMENTS |
|-----------------------------|-----------|-------------------|--------------------|----------------------------------|----------------------------|-----------------|-------------------------|---|---|
| 6-5-53-91 | 1 | 59.69-16 2.350 | 69.85 2.750 | 134.92 5.310 | 3610-0000 4.500 x 0.134 | 60.00 2.362 | 210661-1X see Note | 6-5-4-1891* END YOKE 6-5-1-A1811 C/FLANGE 587-42-1-1891KV KV C/FLANGE 6-1-A2221 C/FLANGE | & NUT 231502, WASHER 510-27 1810 FACE 180mm KV FLANGE SEMI FINISHED |
| 6-5-53-51 | 1 | 59.69-16 2.350 | 69.85 2.750 | 138.12 5.438 | 3603-0000 4.500 x 0.259 | 60.00 2.362 | 210661-1X see Note | 6-5-4-1891* END YOKE | & NUT 231502, WASHER 510-27 |
| 8-53-41 | 1 | 57.15-10 2.250 | 65.08 2.562 | 134.14 5.281 | 3603-0000 4.500 x 0.259 | 60.00 2.362 | A34MU336 MACK | 6-5-4-2131□ # END YOKE | & NUT 231502, WASHER 510-27 |

Note - 210875-1X can be used for Heavy Duty applications

* Can also use 6-5-4-1891-1 HALF ROUND YOKE

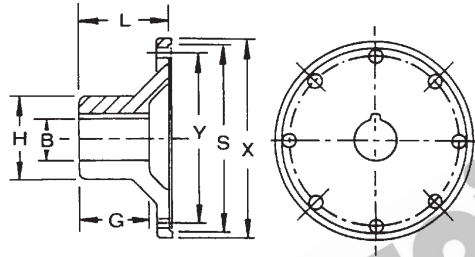
□ Can also use 6-5-4-2131-1 HALF ROUND YOKE

Can also use 9C-4-3647 suits MACK 1810-9C with 5-324X joint

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1810 HARDY SPICER

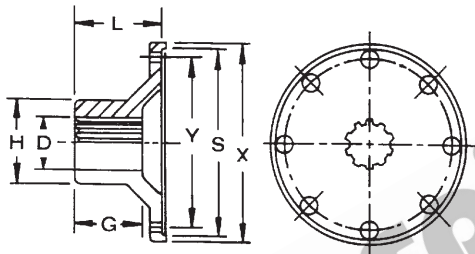


1810 COMPANION FLANGE

CIRCULAR TYPE - ROUND HOLE

| PART No. | HOLE DIA. | HUB O.D. | MAX. BORE STD KEY | FLANGE FACE TO END OF HUB | LENGTH THRU HOLE | BOLT HOLE DIA. & No. | P.C.D. | SPIGOT DIA. | FLANGE O.D. | BOLT HOLE PATTERN |
|------------|----------------|-----------------|-------------------|---------------------------|------------------|----------------------|-----------------|---------------------|-----------------|----------------------|
| | B | H | | L | G | | Y | S | X | |
| 6-5-1-0533 | 25.00 0.984 | 168.34 6.628 | | 92.50 3.642 | 90.00 3.543 | 11.2 x 12 0.440 | 184.15 7.250 | F-196.85 F-7.750 | 203.20 8.000 | 4 SETS OF 3 @ 45° |

Holes need to be redrilled for 1760/1810 applications



1810 COMPANION FLANGE

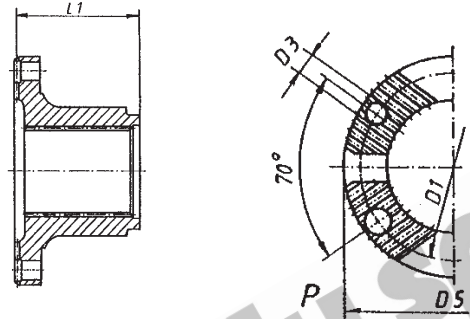
CIRCULAR TYPE - SPLINED HOLE

| PART No. | SPLINE O.D. & No. | HUB O.D. | FLANGE FACE TO END OF HUB | LENGTH THRU HOLE | BOLT HOLE DIA. & No. | P.C.D. | SPIGOT DIA. | FLANGE O.D. | BOLT HOLE PATTERN | NOTES |
|----------------------------|-------------------|-----------------|---------------------------|------------------|----------------------|-----------------|---------------------|-----------------|-------------------------|--|
| | D | H | L | G | | Y | S | X | | |
| SC-1-291 LARGE HUB | 54.77-22 2.156 | 84.07 3.310 | 84.84 3.340 | 64.52 2.540 | 11.2x12 0.441 | 184.15 7.250 | F-196.85 F-7.750 | 203.20 8.000 | 4 GROUPS OF THREE @ 45° | SCANIA SPLINE |
| SMALL HUB | | 73.152 2.880 | | | | | | | | Machine seal to Scania size Machine flange to suit Scania nut |
| 6-5-1-1811 | 59.54-16 2.344 | 73.03 2.875 | 0.0 0.000 | 69.85 2.750 | 11.2x12 0.441 | 184.15 7.250 | F-196.85 F-7.750 | 203.20 8.000 | 4 GROUPS OF THREE | 1810 MIDSHIP |
| 6-1-A2221 SEMI FINISHED | 59.54-16 2.344 | 73.03 2.875 | 0.0 0.000 | 69.85 2.750 | N/A | N/A | N/A | | | 1810 MIDSHIP |

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1810 KV COMPANION FLANGES

| SPLINED HOLE | | | | | | | |
|-----------------|---------------------|-----------------|--------------------|---------------------------|-----------------|-------------------|---|
| PART No. | SPLINE O.D. & No. | GROUND HUB O.D. | LENGTH THROUGH HUB | FLANGE FACE TO HUB END L1 | FLANGE O.D. P | BOLT HOLES D3 | COMMENTS |
| 587-42-1-3291KV | 1.960 - 10 49.78 | 3.000 76.20 | 2.250 57.15 | 3.346 85.00 | 7.087 180.00 | 0.594 x 4 15.1 | |
| 587-42-1-6371KV | 2.024 - 39 51.40 | 3.000 76.20 | 2.319 58.90 | 3.346 85.00 | 7.087 180.00 | 0.594 x 4 15.1 | Rockwell / Meritor RT140 - 145 - RT380 |
| 587-42-1-1891KV | 2.344 - 16 59.53 | N/A | 2.750 69.85 | 4.331 110.00 | 7.087 180.00 | 0.594 x 4 15.1 | SUITS 1810 MIDSHIP STUB 6-5-53-91 |
| 587-42-1-3201KV | 2.375 - 39 60.33 | 3.250 82.50 | 2.874 73.00 | 3.937 100.00 | 7.087 180.00 | 0.594 x 4 15.1 | Rockwell / Meritor RT180 - 185 - 380 |
| 587-42-1-3361KV | 2.574 - 20 65.38 | 3.500 88.90 | 3.390 86.10 | 4.431 110.00 | 7.087 180.00 | 0.594 x 4 15.1 | |
| 587-42-1-1901KV | 2.750 - 10 69.85 | 3.500 88.90 | 3.000 76.20 | 4.331 110.00 | 7.087 180.00 | 0.594 x 4 15.1 | |
| 587-42-1-3491KV | 2.750 - 10 69.85 | 3.750 95.25 | 3.000 76.20 | 4.331 110.00 | 7.087 180.00 | 0.594 x 4 15.1 | Eaton / Spicer RT14613-14615-14715 15613-16718B-16609-16613 16618-18718B and various others |
| 587-42-1-4631KV | 2.794 - 54 70.97 | 3.750 95.25 | 2.750 69.85 | 3.563 90.50 | 7.087 180.00 | 0.594 x 4 15.1 | Eaton / Spicer RT14-15-16-18-20 Series |
| 587-42-1-PBKV | 25mm BORE 0.984 | 4.000 101.60 | 3.400 86.36 | 4.331 110.00 | 7.087 180.00 | 0.594 x 4 15.1 | PILOT BORED FLANGE |

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1810 HARDY SPICER

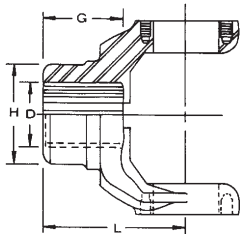


Fig 1

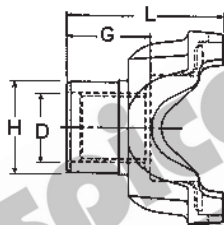


Fig 2

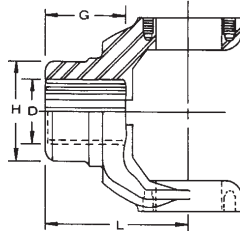
1810 MIDSHIP END YOKE

| SPLINED HOLE | | | | | | | | |
|--------------|-------|---------------------|-------------------|--------------------|-----------------|-------------|------------|----------------------------------|
| PART No. | F I G | SPLINE O.D. & No. D | GROUND HUB O.D. H | LENGTH OF OF HUB G | C/L TO END L | JOINT ANGLE | STYLE | COMMENTS |
| 6-5-4-1891 | 1 | 59.54-16 2.344 | 73.03 2.875 | 69.85 2.750 | 139.70 5.500 | 30 | FULL ROUND | |
| 6-5-4-1891-1 | 2 | 59.54-16 2.344 | 73.03 2.875 | 69.85 2.750 | 139.70 5.500 | 30 | HALF ROUND | USE STRAP KIT 6-5-70-18X |
| 6-5-4-2131 | 1 | 57.15-10 2.250 | 73.03 2.875 | 76.20 3.000 | 149.23 5.875 | 30 | FULL ROUND | MACK |
| 6-5-4-2131-1 | 2 | 57.15-10 2.250 | 73.03 2.875 | 76.20 3.000 | 149.23 5.875 | 30 | HALF ROUND | MACK USE STRAP KIT 6-5-70-18X |

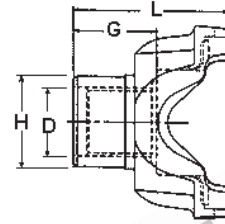
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HARDY SPICER 1810



Full Round Style



Half Round Style

1810

SPLINED END YOKES

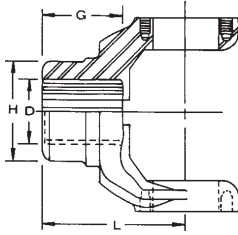
SPLINED HOLE

| PART No. | SPLINE O.D. & No. D | GROUND HUB O.D. H | LENGTH THROUGH HUB G | C/L TO END L | JOINT ANGLE | SLINGER Part No. | COMMENTS |
|----------------------------|------------------------------|----------------------------|-------------------------------|--------------------|----------------|---|--|
| 6-5-4-2341X | 2.00"x10 50.80 | 2.938 74.63 | 2.562 65.07 | 5.38 136.53 | 30 | 98-1361 | |
| 6-5-4-3261 | 2.02"x39 51.31 | 2.750 69.85 | 2.000 50.80 | 5.19 131.83 | 30 | 232042-2 (6-5-4-4281X) | Mack Diff |
| 6-5-4-2781 | 2.02"x39 51.31 | 2.750 69.85 | 2.438 61.93 | 5.53 140.46 | 30 | 231599 (6-5-4-3571X) | |
| 6-5-4-3371 | 2.02"x39 51.31 | 3.000 76.20 | 2.312 58.72 | 5.19 131.83 | 30 | 231047 (6-5-4-3381X) | RT140 |
| 6-5-4-3371-1 Half Round | 2.02"x39 51.31 | 3.000 76.20 | 2.312 58.72 | 5.19 131.83 | 30 | 231047 (6-5-4-3381-1X) 232028 (6-5-4-4191-1X) | RT160-185 |
| 6-5-4-4321 | 2.27"x44 57.65 | 2.940 74.68 | 2.500 63.50 | 5.25 133.35 | 30 | 231022 (6-5-4-3281X) 232168 (6-5-4-4351X) | Late Eaton DS-DP-DT 340-40-401-402-451 |
| 6-5-4-3721 | 2.37"x46 60.20 | 3.250 82.55 | 2.312 58.72 | 5.15 130.81 | 30 | 231803 (6-5-4-3731X) | RT145-160 |
| 6-5-4-3721-1 Half Round | 2.37"x46 60.20 | 3.250 82.55 | 2.312 58.72 | 5.16 131.06 | 30 | 231803 (6-5-4-3731-1X) 211831X (6-5-4-4511-1X) | RT140-160 |
| 6-5-4-3251 | 2.37"x46 60.20 | 3.500 88.90 | 2.500 63.50 | | 30 | 232042-10 (6-5-4-3271X) | Various |
| 6-5-4-2701 | 2.37"x46 60.20 | 3.250 82.55 | 2.625 66.68 | 5.25 133.35 | 30 | 231179 (6-5-4-2711X) | SSHD Late |
| 6-5-4-3201 | 2.37"x46 60.20 | 3.250 82.55 | 2.875 73.03 | 5.69 144.53 | 30 | 231179 (6-5-4-3221X) 231615 (6-5-4-3581X) | RT180-185-380 |
| 6-5-4-3201-1 Half Round | 2.37"x46 60.20 | 3.250 82.55 | 2.875 73.03 | 5.69 144.53 | 30 | | RS,RT180-185 |
| 6-5-4-3911 | 2.39"x46 60.71 | 3.375 85.73 | 3.188 80.97 | 6.00 152.40 | 30 | 231013 (6-5-4-3921X) 232610 (6-5-4-4611X) | Eaton DS,DP 461-651 |
| 6-5-4-2101 | 2.50"x10 63.50 | 3.500 88.90 | 2.406 61.11 | 5.41 137.41 | 30 | 232042-11 (6-5-4-4291X) | Various Mack |
| 6-5-4-3451 | 2.50"x10 63.50 | 3.750 95.25 | 3.000 76.20 | 5.88 149.35 | 30 | 231616 (6-5-4-3551X) | RT613-6613 RT910-915-9513 and various other models |
| 6-5-4-2181 | 2.63"x25 66.80 | 3.625 90.08 | 3.000 76.20 | 5.78 146.81 | 30 | | SPL Clark |
| 6-5-4-3021 | 2.64"x20 67.06 | 3.750 95.25 | 2.750 69.85 | 5.56 141.22 | 30 | 231745 (6-5-4-3541X) | Eaton / Spicer |
| 6-5-4-3021-1 Half Round | 2.64"x20 67.06 | 3.750 95.25 | 2.750 69.85 | 5.56 141.22 | 30 | 231745 (6-5-4-3541-1X) | Eaton / Spicer |

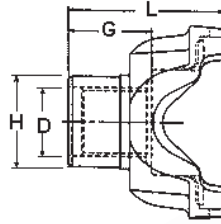
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1810 HARDY SPICER



Full Round Style



Half Round Style

1810 SPLINED END YOKES cont.

| SPLINED HOLE | | | | | | | |
|----------------------------|------------------------------|----------------------------|-------------------------------|--------------------|----------------|---------------------------|---|
| PART No. | SPLINE O.D. & No. D | GROUND HUB O.D. H | LENGTH THROUGH HUB G | C/L TO END L | JOINT ANGLE | SLINGER Part No. | COMMENTS |
| 6-5-4-1901 | 2.75"x10 69.85 | 3.500 88.90 | 3.000 76.20 | 6.06 153.92 | 30 | 230674 | RT12 Series with 3.500" seal |
| 6-5-4-3491 | 2.75"x10 69.85 | 3.750 95.25 | 3.000 76.20 | 6.06 153.92 | 30 | 231616 (6-5-4-3561X) | RT14613-14615-14715-15613-14615-16718B-16609-16613-16618-18718B and various other models with 3.750" hub seal |
| 6-5-4-3491-1 Half Round | 2.75"x10 69.85 | 3.750 95.25 | 3.000 76.20 | 6.06 153.92 | 30 | 231616 (6-5-4-3561-1X) | RT14613-14615-14715-15613-14615-16718B-16609-16613-16618-18718B and various other models with 3.750" hub seal |
| 6-5-4-4631 | 2.79"x54 70.87 | - | 2.750 69.85 | 5.63 143.00 | | | RT14-15-16-18-20 Series |
| 6-5-4-4631-1 Half Round | 2.79"x54 70.87 | - | 2.750 69.85 | 5.63 143.00 | | | RT14-15-16-18-20 Series |

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HARDY SPICER 1880

SUPERSEDED BY SPL 250 SERIES

B1 = 205.58

8.09

E = 71.44

2.81

C = 55.56

2.19

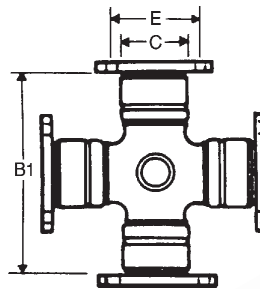


FIG. 1

1880

UNIVERSAL JOINT KIT

| PART No. | LUBE | FIGURE | DESCRIPTION |
|----------|------|--------|----------------|
| 5-308X | SIDE | 1 | STANDARD JOINT |
| 5-308XD | SIDE | 1 | PREMIUM BRAND |

1880

OTHER UNIVERSAL JOINT KIT

Refer to Section B:1 for dimensional data & hardware kits

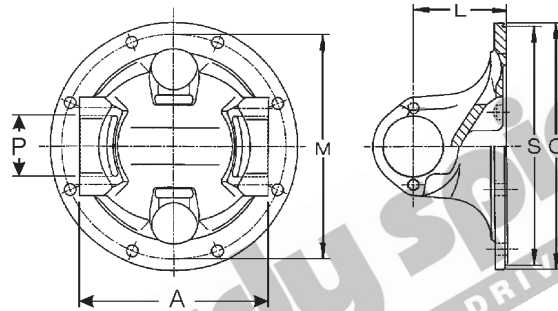
| PART No. | LUBE | DESCRIPTION |
|----------|------|-----------------------------|
| 5-326X | | CONVERSION 1880 - 9C SERIES |
| 5-327X | | CONVERSION 1880 - 9C SERIES |

A - 205.58

8.09

P - 55.56

2.19



1880

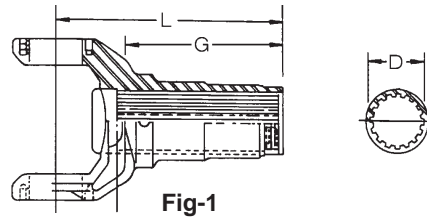
FLANGE YOKE

| PART No. | FLANGE DIA. | C/L OF U.J. TO FACE | SPIGOT DIA M=MALE F=FEMALE S | MAX. STATIC ANGLE | P.C.D. | BOLT HOLE PATTERN | No. HOLES | HOLE DIA | DESCRIPTION |
|----------|----------------------|---------------------|---------------------------------------|-------------------|----------------------|-------------------|-----------|----------------|-------------|
| 8-2-109 | C 247.65 9.750 | L 91.29 3.594 | M-177.80 M-7.000 | 22 | M 209.55 8.250 | 4 x GROUPS OF TWO | 8 | 15.88 0.625 | STANDARD |

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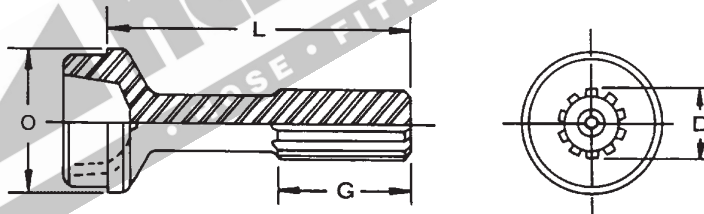
1880 HARDY SPICER



SUPPLIED WITH DUST CAP

1880 SLIP YOKE

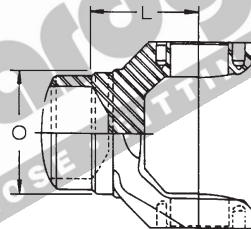
| PART No. | FIG | SPLINE O.D. & No. SPLINE D | C/LINE TO END OF L | LENGTH OF SPLINE G | JOINT ANGLE | COMMENTS |
|-----------|-----|----------------------------|--------------------|--------------------|-------------|----------|
| 8-3-411KX | 1 | 76.20-16 3.000 | 296.06 11.656 | 244.35 9.620 | 22 | |



1880 STUB

| SPLINE TYPE: | | HC = HARDY COATED ST = STEEL | | | BUTT TYPE: | | H = HOLLOW S = SOLID | | COMMENTS |
|--------------|---------------------|---------------------------------|--------------------|----------------------------------|------------|--------------------------------|-------------------------|--|----------|
| PART No. | SPLINE DIA. & No. D | SPLINE TYPE | LENGTH OF SPLINE G | END OF SPLINE TO POINT OF WELD L | BUTT TYPE | TUBE O.D. & THICKNESS O | TUBE PART No. | | |
| 8-40-101 | 76.20-16 3.000 | HC | 114.30 4.500 | 292.86 11.530 | H | 114.30 x 6.58 4.500 x 0.259 | 3603-0000 | | |

BUTT TYPE:
H=HOLLOW
S=SOLID



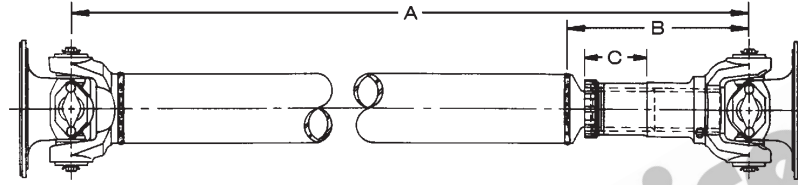
1880 WELD YOKE

| PART No. | C/LINE TO POINT OF WELD L | TUBE O.D. & WALL THICKNESS O | TUBE PART No. | BUTT TYPE | MAX. ANGLE | COMMENTS |
|----------|---------------------------|--------------------------------|---------------|-----------|------------|----------|
| 8-28-147 | 101.60 4.000 | 114.30 x 6.58 4.500 x 0.259 | 3603-0000 | H | 22 | |

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HARDY SPICER 1880

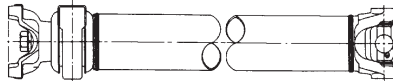


1880 TUBULAR TYPE ASSEMBLY CHART

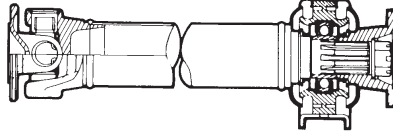
MINIMUM TUBE LENGTH = 58.7mm (2.31")

| SLIP YOKE FEMALE PART No. | STUB MALE PART No. | C/LINE TO POINT OF WELD CLOSED B | TOTAL SLIP C | CLOSED LENGTH C/L TO C/L U.J.'s A | WELD YOKE | MAX. ANGLE OF ASSY. | TUBE PART No. & SIZE |
|---------------------------|--------------------|----------------------------------|-----------------|-----------------------------------|-----------|---------------------|----------------------------|
| 8-3-411KX | 8-40-101 | 350.00 13.780 | 130.10 5.120 | 515.90 20.310 | 8-28-147 | 22 | 3603-0000 4,500 x 0.259 |

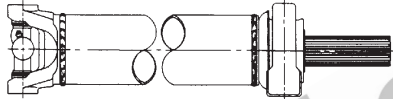
Shaft Assembly End Yoke Style



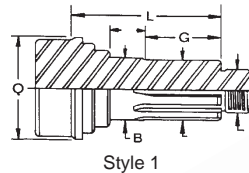
Companion Flange Style



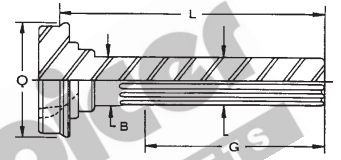
Shaft Assembly Slip Yoke Style



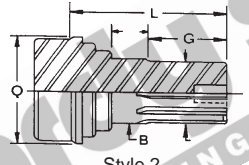
Midship Stubs



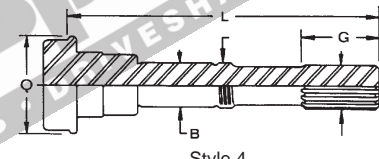
Style 1



Style 3



Style 2



Style 4

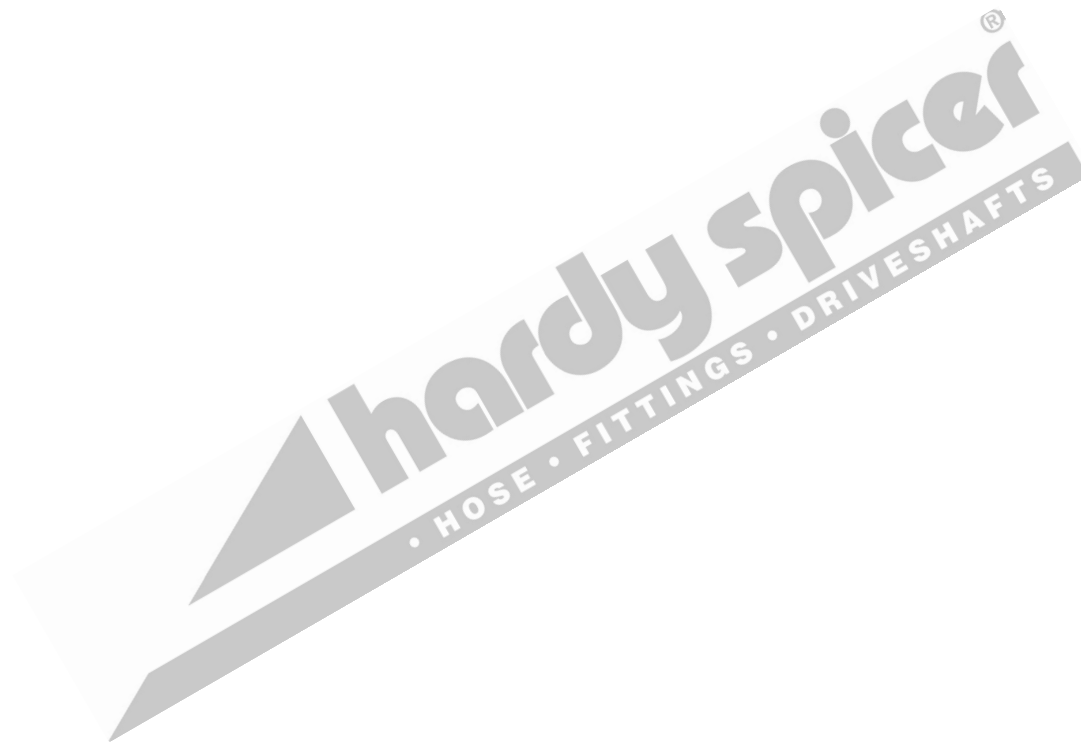
1880 CENTRE BEARING ASSEMBLY

| MIDSHIP STUB SHAFT PART No. | S T Y L E | SPLINE DIA. & No. | LENGTH OF SPLINE G | END OF SPLINE TO POINT OF WELD L | TUBE PART No. & SIZE Q | BEAR-ING I.D. B | CENTRE BEARING PART No. | SLIP YOKE/ COMPANION FLANGE/ END YOKE | COMMENTS |
|-----------------------------|-----------|-------------------|--------------------|----------------------------------|----------------------------|-----------------|-------------------------|---------------------------------------|--------------------------------|
| 8-53-61 | 1 | 67.46-18 2.656 | 73.02 2.875 | 152.40 6.000 | 3603-0000 4,500 x 0.259 | 70.00 2.756 | 210748-1X see Note | 8-4-351 END YOKE | & NUT 231502, WASHER 510-27 |

Note - 211070-1X can be used for Heavy Duty applications

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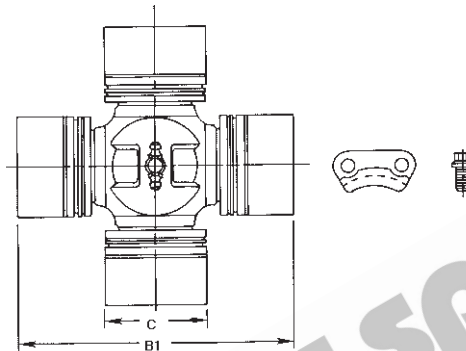


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HARDY SPICER SPL170

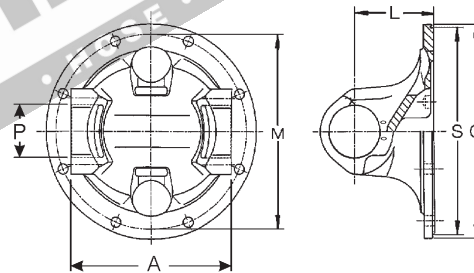
C = 55.00
2.165
B1 = 164.00
6.457



SPL170 UNIVERSAL JOINT KIT

| PART No. | LUBE | DESCRIPTION |
|----------|--------|---|
| SPL170X | CENTRE | STANDARD FOR QUICK DISCONNECT END YOKES (STRAP KIT PART # 170-70-18X) |

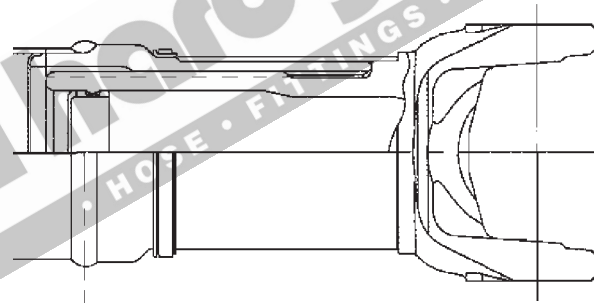
A - 164.00
6.457
P - 55.00
2.165



SPL170 FLANGE YOKE

| PART No. | FLANGE DIA. | C/L OF U.J. TO FACE | SPIGOT DIA M=MALE F=FEMALE S | MAX. STATIC ANGLE | P.C.D. M | BOLT HOLE PATTERN | No. HOLES | HOLE DIA | DESCRIPTION |
|----------|-----------------|---------------------|------------------------------|-------------------|-----------------|---------------------|-----------|----------------|-------------|
| 170-2-19 | 203.20 8.000 | 81.50 3.208 | M-196.85 M-7.750 | 30 | 184.15 7.250 | 4 x GROUPS OF THREE | 12 | 11.13 0.438 | 1810 FACE |

SPLINE TYPE:
HC = HARDY COATED
ST = STEEL



SPL170 SLIP ASSEMBLY

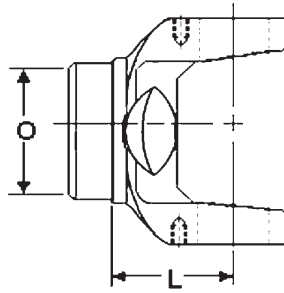
| PART No. | SPLINE DIA. & No. | U/JOINT PART No. | C/LINE TO POINT OF WELD L | TUBE O.D. & WALL THICKNESS | TOTAL SLIP | MAX ANGLE | COMMENTS |
|-----------|-------------------|------------------|---------------------------|--------------------------------|-----------------|-----------|----------|
| 170SA151X | 88.00-34 3.464 | SPL170X | 342.00 13.464 | 120.00 x 5.00 4.724 x 0.197 | 150.00 5.906 | 45° | |

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SPL170 HARDY SPICER

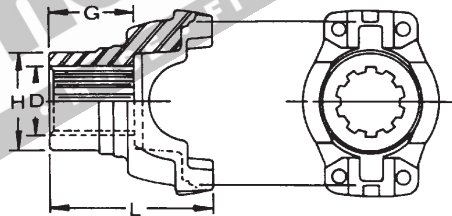
BUTT TYPE:
H=HOLLOW
S=SOLID



SPL170

WELD YOKE

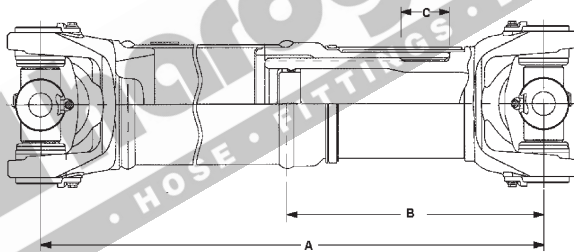
| PART No. | C/LINE TO POINT OF WELD L | TUBE O.D. & WALL THICKNESS O | TUBE PART No. | BUTT TYPE | MAX. ANGLE | COMMENTS |
|-----------|------------------------------|---------------------------------|---------------|-----------|------------|----------|
| 170-28-27 | 120.00 4.724 | 120.00 x 5.00 4.724 x 0.197 | 120X5MM | H | 45° | |



SPL170

END YOKE

| PART No. | SPLINE O.D. & No. D | GROUND HUB O.D. H | LENGTH OF HUB G | C/L TO END L | JOINT ANGLE | COMMENTS |
|--------------|---------------------|-------------------|-----------------|-----------------|-------------|------------------------------|
| 170-4-661-1 | 51.41-39 2.024 | 76.20 3.000 | 58.72 2.312 | 162.33 6.391 | 45 | STRAP KIT TO SUIT 170-70-18X |
| 170-4-381-1X | 54.43-41 2.143 | 74.62 2.938 | 63.50 2.500 | 169.67 6.680 | 45 | STRAP KIT TO SUIT 170-70-18X |
| 170-4-741-1 | 60.30-46 2.374 | 82.55 3.250 | 59.13 2.328 | 163.53 6.438 | 45 | STRAP KIT TO SUIT 170-70-18X |



SPL170

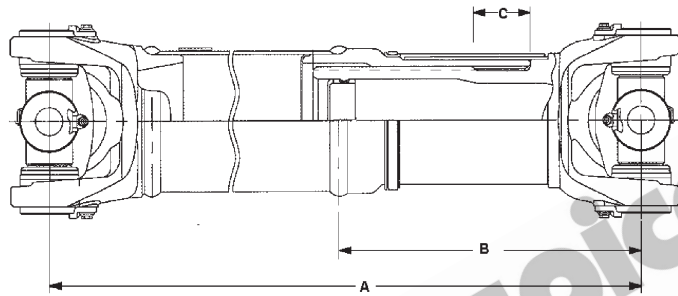
TUBULAR TYPE ASSEMBLY CHART

| MINIMUM TUBE LENGTH= | | | | | | | |
|------------------------|--------------------------|-------------------------------------|-----------------|------------------------------------|-----------|--------------------|--------------------------------|
| SLIP ASSEMBLY PART No. | UNIVERSAL JOINT PART No. | C/LINE TO POINT OF WELD CLOSED B | TOTAL SLIP C | CLOSED LENGTH C/L TO C/L UJ's A | WELD YOKE | MAX ANGLE OF ASSY. | TUBE PART No. & SIZE |
| 170SA151X | SPL170X | 342.00 13.464 | 150.00 5.906 | 510.00 20.079 | 170-28-27 | 45° | 120.00 x 5.00 4.724 x 0.197 |

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HARDY SPICER SPL170



SPL170

SHORT COUPLED ASSEMBLY

MINIMUM TUBE LENGTH=

| COMPLETE ASSEMBLY PART No. | UNIVERSAL JOINT PART No. | SPLINE DIAMETER & No. | TOTAL SLIP | CLOSED LENGTH C/L TO C/L UJ's | MAX ANGLE OF ASSY. | COMMENTS |
|----------------------------|--------------------------|-----------------------|-------------|-------------------------------|--------------------|----------|
| | | | C | A | | |
| 170SA131X | SPL170X | 88.00 - 34 | 150.00 | 442.80 | 45° | |
| | | | 3.464 5.906 | 17.433 | | |
| 170SA132X | SPL170X | 88.00 - 34 | 150.00 | 482.80 | 45° | |
| | | | 3.464 5.906 | 19.000 | | |



FIG 1.



FIG 2.

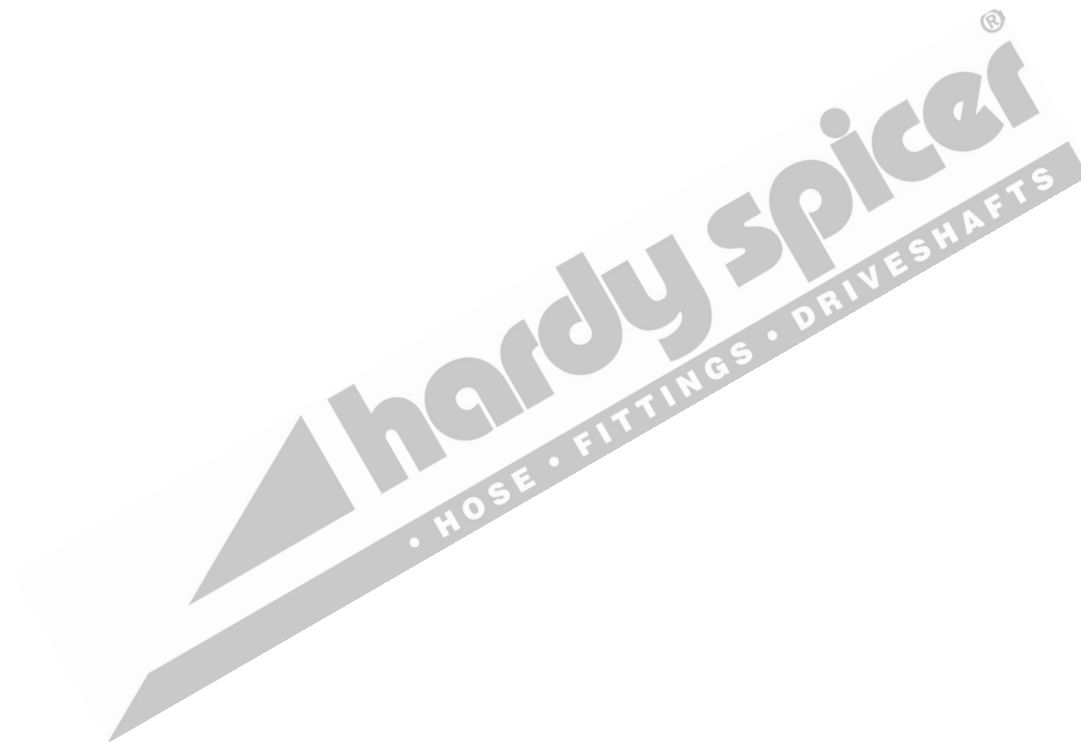
SPL170

STRAP KITS AND FITTINGS

| KIT PART No. | FIG | THREAD SIZE | C - C OF BOLTS | BOLT LENGTH | STRAP / PLATE PART No. | COMMENTS |
|--------------|-----|-------------|----------------|-------------|------------------------|----------|
| 170-70-18X | 2 | M12 x 1.25 | 82.00 | 25.00 | 170-70-19 | |
| | | | 3.229 | 0.984 | | |
| 211941X | 1 | M8 x 1 | - | 14.00 | 232584 (SPL) | |
| | | 0.000 | | 0.551 | | |

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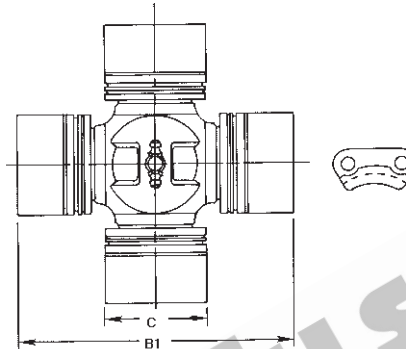


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HARDY SPICER SPL250

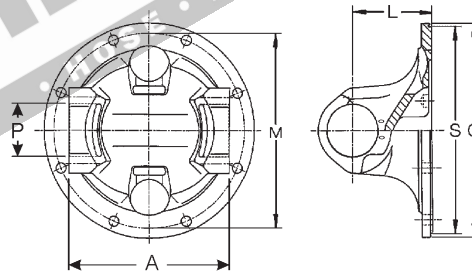
C = 60.00
2.362
B1 = 164.00
6.457



SPL250 UNIVERSAL JOINT KIT

| PART No. | LUBE | DESCRIPTION |
|----------|--------|---|
| SPL250X | CENTRE | STANDARD FOR QUICK DISCONNECT END YOKES (STRAP KIT PART # 250-70-18X) |

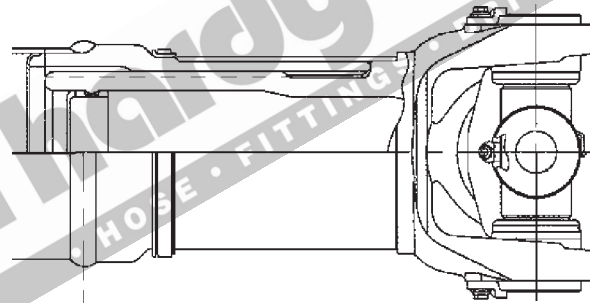
A - 164.00
6.457
P - 60.00
2.362



SPL250 FLANGE YOKE

| PART No. | FLANGE DIA. | C/L OF U.J. TO FACE | SPIGOT DIA M=MALE F=FEMALE | MAX. STATIC ANGLE | P.C.D. | BOLT HOLE PATTERN | No. HOLES | HOLE DIA | DESCRIPTION |
|----------|-----------------|---------------------|----------------------------------|-------------------|-----------------|---------------------|-----------|----------------|-------------|
| | C | L | S | | M | | | | |
| 250-2-19 | 203.20 8.000 | 81.50 3.208 | M-196.85 M-7.750 | 30 | 184.15 7.250 | 4 x GROUPS OF THREE | 12 | 11.13 0.438 | 1810 FACE |

SPLINE TYPE:
HC = HARDY COATED
ST = STEEL



SPL250 SLIP ASSEMBLY

| PART No. | SPLINE DIA. & No. | U/JOINT PART No. | C/LINE TO POINT OF WELD L | TUBE O.D. & WALL THICKNESS | TOTAL SLIP | MAX ANGLE | COMMENTS |
|-----------|-------------------|------------------|------------------------------|--------------------------------|-----------------|-----------|-------------------------------|
| 250SA004X | 98.00-38 3.858 | SPL250X | 278.00 10.945 | 132.00 x 6.00 5.200 x 0.236 | 110.00 4.331 | 25 | COMPLETE WITH SPL250X U/JOINT |

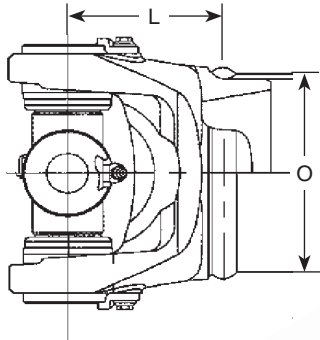
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SPL250 HARDY SPICER

BUTT TYPE:
H=HOLLOW
S=SOLID

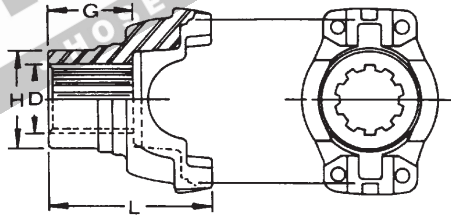
ASSEMBLY INCLUDES
UNIVERSAL JOINT
SPL250X



SPL250

WELD YOKE

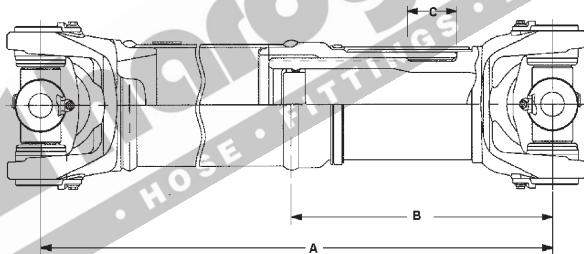
| PART No. | C/LINE TO POINT OF WELD L | TUBE O.D. & WALL THICKNESS O | TUBE PART No. | BUTT TYPE | MAX. ANGLE | COMMENTS |
|------------|------------------------------|---------------------------------|---------------|-----------|------------|--|
| 250TJ05001 | 104.00 4.094 | 132.00 x 6.00 5.206 x .236 | 132X6MM | H | 25 | CAN ALSO USE 130 x 5mm & 128.5 x 4.25mm TUBE |



SPL250

END YOKE

| PART No. | SPLINE O.D. & No. D | GROUND HUB O.D. H | LENGTH OF OF HUB G | C/L TO END L | JOINT ANGLE | COMMENTS |
|--------------|------------------------|----------------------|-----------------------|-----------------|-------------|---|
| 250-4-291-1X | 60.30-46 2.374 | 82.55 3.250 | 73.03 2.875 | 149.00 5.870 | 25 | STRAP KIT TO SUIT 250-70-18X |
| 250-4-871-1 | 60.70-46 2.390 | 84.94 3.344 | 69.85 2.750 | 146.05 5.750 | 25 | STRAP KIT TO SUIT 250-70-18X SUIT MIDSHIP STUB 250-53-11 |



SPL250

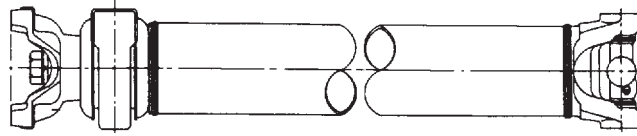
TUBULAR TYPE ASSEMBLY CHART

| MINIMUM TUBE LENGTH= | | | | | | | |
|------------------------|--------------------------|-------------------------------------|-----------------|------------------------------------|----------------|--------------------|-------------------------|
| SLIP ASSEMBLY PART No. | UNIVERSAL JOINT PART No. | C/LINE TO POINT OF WELD CLOSED B | TOTAL SLIP C | CLOSED LENGTH C/L TO C/L UJ's A | WELD YOKE ASSY | MAX ANGLE OF ASSY. | TUBE PART No. & SIZE |
| 250SA004X | SPL250X | 278.00 10.945 | 110.00 4.330 | 450.00 17.72 | 250TJ05001 | 25° | 132X6MM 5.206 x .236 |

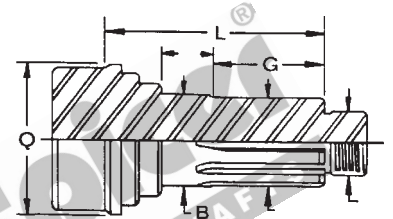
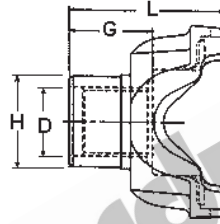
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HARDY SPICER SPL250



Shaft Assembly End Yoke Style



Style 1

SPL250 CENTRE BEARING ASSEMBLY

| MIDSHIP STUB SHAFT PART No. | S T Y L E | SPLINE DIA. & No. | LENGTH OF SPLINE G | END OF SPLINE TO POINT OF WELD L | TUBE PART No. & SIZE Q | BEARING I.D. B | CENTRE BEARING PART No. | SLIP YOKE/COMPANION FLANGE/END YOKE | COMMENTS |
|-----------------------------|-----------|-------------------|--------------------|----------------------------------|--------------------------|----------------|-------------------------|-------------------------------------|-----------------------------------|
| 250-53-11 | 1 | 59.69-46 2.350 | 66.50 2.618 | 134.40 5.291 | 132X6MM 5.200 x 0.236 | 60.00 2.362 | 210661-1X see Note | 250-4-871-1 END YOKE | & NUT 250-74-11, WASHER 510-27 |

Note - 210875-1X can be used for Heavy-Duty applications



FIG 1.



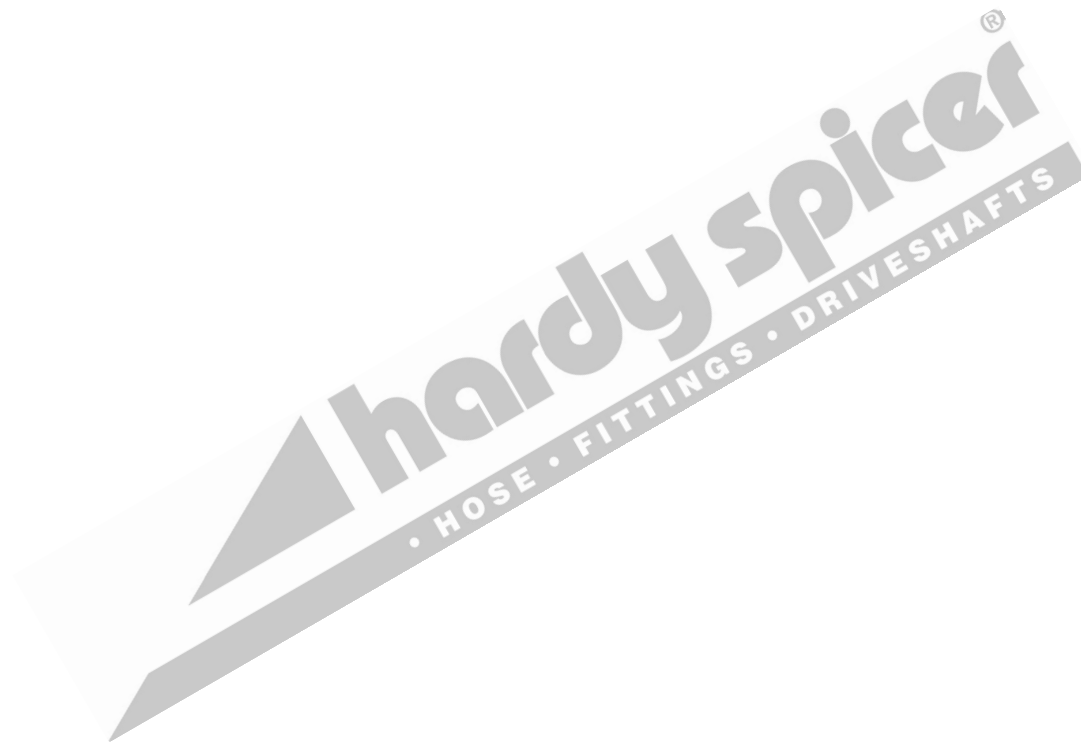
FIG 2.

SPL250 STRAP KITS AND FITTINGS

| KIT PART No. | FIG | THREAD SIZE | C - C OF BOLTS | BOLT LENGTH | STRAP / PLATE PART No. | COMMENTS |
|--------------|-----|-----------------|----------------|----------------|------------------------|----------|
| 250-70-18X | 2 | M12 x 1.25 | 87.50 3.445 | 25.00 0.984 | 250-70-19 | |
| 211941X | 1 | M8 x 1 0.000 | - | 14.00 0.551 | 232584 (SPL) | |

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