

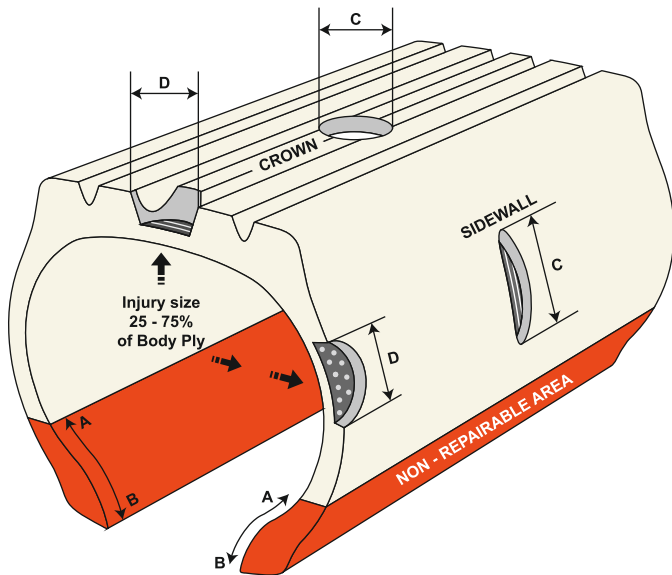


# Bias Repair Unit Selection Chart

## Passenger, Light Truck, Truck and Bus

Document No: AA/EN-GB/20/RSC/02/01/04

August, 2020



| Legend    |   |
|-----------|---|
| A-B / B-A | Non-Repairable Area   |
| C         | Diameter of Injury Type C - through cut   |
| D         | Diameter of Injury Type D - injuries through 25%, but less than 75% of the body plies require both hole filling material and reinforced repair unit to be installed inside the tyre |

| Repair Restriction            |                     |
|-------------------------------|---------------------|
| SECTION WIDTH                 | NON-REPAIRABLE AREA |
| Passenger Tyres               | 1½" (40mm)          |
| LT up to 7.50 (195mm)         | 3" (75mm)           |
| 8.25 (205mm) to 14.00 (355mm) | 3½" (90mm)          |

The above dimension are only guidelines.

**To determine suitable repair unit:** For proper repair unit selection, determine the size of the injury in the tyre by measuring largest cord area removed. Locate the correct injury size along the top row of the chart then locate the tyre's ply rating (load range) along the left column of the same chart. The repair unit size shown in the box where these intersect is the recommended repair unit to use.



| Ply Rating / Load Range | Maximum Injury Size - 'C' |             |              |              |              |            |                |            |                |
|-------------------------|---------------------------|-------------|--------------|--------------|--------------|------------|----------------|------------|----------------|
|                         | 1/8" (3 mm)               | 1/4" (6 mm) | 3/8" (10 mm) | 1/2" (15 mm) | 3/4" (20 mm) | 1" (25 mm) | 1-1/2" (40 mm) | 2" (50 mm) | 2-1/2" (65 mm) |
| 4 / B                   | RU 60                     | RU 60       | RU 75        | RU 90        | B 103        | B 103      | B 104 L        | B 105      | —              |
| 6 / C                   | RU 60                     | RU 60       | RU 75        | RU 90        | B 103        | B 103      | B 104 L        | B 105      | B 106          |
| 8 / D                   | RU 60                     | RU 60       | RU 90        | B 103        | B 103        | B 104 L    | B 104 L        | B 105      | B 106          |



| Ply Rating / Load Range | Maximum Injury Size - 'C' |             |              |              |              |            |                |            |                |            |             |             |
|-------------------------|---------------------------|-------------|--------------|--------------|--------------|------------|----------------|------------|----------------|------------|-------------|-------------|
|                         | 1/8" (3 mm)               | 1/4" (6 mm) | 3/8" (10 mm) | 1/2" (15 mm) | 3/4" (20 mm) | 1" (25 mm) | 1-1/2" (40 mm) | 2" (50 mm) | 2-1/2" (65 mm) | 3" (75 mm) | 4" (100 mm) | 5" (125 mm) |
| 8 / D                   | RU 60                     | RU 60       | RU 90        | B 103        | B 103        | B 104 L    | B 104          | B 105      | B 106          | —          | —           | —           |
| 10 / E                  | RU 60                     | RU 75       | RU 90        | B 103        | B 103        | B 104 L    | B 105          | B 106      | B 106          | B 107      | B 108       | —           |
| 12 / F                  | RU 60                     | RU 75       | RU 90        | B 104 L      | B 104 L      | B 104      | B 105          | B 106      | B 106          | B 107      | B 108       | —           |
| 14 / G                  | RU 60                     | RU 75       | B 103        | B 104 L      | B 104        | B 105      | B 106          | B 106      | B 107          | B 107      | B 108       | B 110       |
| 16 / H                  | RU 60                     | RU 75       | B 104 L      | B 104        | B 105        | B 105      | B 106          | B 106      | B 107          | B 107      | B 108       | B 110       |
| 18 / J                  | RU 60                     | RU 75       | B 104 L      | B 105        | B 105        | B 106      | B 106          | B 107      | B 108          | B 108      | B 109       | B 110       |
| 20 / L                  | RU 60                     | RU 75       | B 104        | B 105        | B 105        | B 106      | B 107          | B 108      | B 108          | B 109      | B 109       | B 110       |



| Ply Rating / Load Range | Maximum Injury Size - 'D' |              |              |              |            |                |            |                |            |             |             |  |
|-------------------------|---------------------------|--------------|--------------|--------------|------------|----------------|------------|----------------|------------|-------------|-------------|--|
|                         | 1/4" (6 mm)               | 3/8" (10 mm) | 1/2" (15 mm) | 3/4" (20 mm) | 1" (25 mm) | 1-1/2" (40 mm) | 2" (50 mm) | 2-1/2" (65 mm) | 3" (75 mm) | 4" (100 mm) | 5" (125 mm) |  |
| 8-12 / D-F              | RU 60                     | RU 75        | RU 90        | B 103        | B 103      | B 104 L        | B 104      | B 105          | B 106      | B 107       | B 108       |  |
| 14-16 / G-H             | RU 60                     | RU 75        | RU 90        | B 104 L      | B 104      | B 105          | B 105      | B 106          | B 106      | B 107       | B 108       |  |
| 18-20 / J-L             | RU 60                     | RU 90        | B 104 L      | B 104        | B 105      | B 106          | B 106      | B 107          | B 107      | B 108       | B 109       |  |

| Repair Unit |           |           | Repair Unit Size |        | Ply Rating |
|-------------|-----------|-----------|------------------|--------|------------|
| SC Series   | CB Series | HC Series | mm               | inches |            |
| SRU 60      | -         | *HRU 60   | Ø 60             | 2-1/4  | 1          |
| SRU 75      | -         | *HRU 75   | Ø 75             | 3      | 1          |
| SRU 90      | -         | *HRU 90   | Ø 90             | 3-1/2  | 2          |
| SB 103      | CBB 103   | *HB 103   | 100              | 4      | 2          |
| SB 104 L    | CBB 104 L | -         | 120              | 4-3/4  | 2          |

|        |         |         |     |        |   |
|--------|---------|---------|-----|--------|---|
| SB 104 | CBB 104 | *HB 104 | 130 | 5-5/16 | 4 |
| SB 105 | CBB 105 | *HB 105 | 165 | 6-1/2  | 4 |
| SB 106 | CBB 106 | *HB 106 | 240 | 9-9/16 | 6 |
| SB 107 | CBB 107 | *HB 107 | 290 | 11-5/8 | 6 |
| SB 108 | CBB 108 | *HB 108 | 340 | 13-5/8 | 6 |
| SB 109 | CBB 109 | *HB 109 | 380 | 15-1/8 | 8 |
| SB 110 | CBB 110 | *HB 110 | 430 | 17-1/8 | 8 |

Note: Load, speed and highway application condition may affect section repairs. This repair selection chart is to be used only as a guide. \* Sizes under development.



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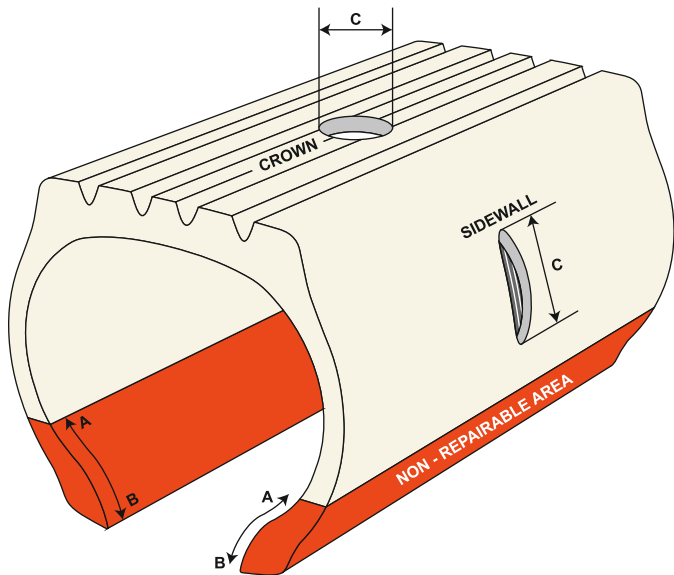


# Bias Repair Unit Selection Chart

## Agricultural, Industrial and Skidder

Document No: AA/EN-GB/20/RSC/02/02/04

August, 2020



| Legend    |  |
|-----------|--|
| A-B / B-A | Non-Repairable Area                        |
| C         | Diameter of Injury<br>Type C - through cut |

| Repair Restriction           |                     |
|------------------------------|---------------------|
| SECTION WIDTH                | NON-REPAIRABLE AREA |
| 6.00 - 8.25 (150-210)        | 3-1/8" (80mm)       |
| 14.9 - 20.8 (380-530)        | 4" (100mm)          |
| 23.1 & Larger (585 & Larger) | 5" (125mm)          |

The above dimension are only guidelines.

**To determine suitable repair unit:** For proper repair unit selection, determine the size of the injury in the tyre by measuring largest cord area removed. Locate the correct injury size along the top row of the chart then locate the tyre's ply rating (load range) along the left column of the same chart. The repair unit size shown in the box where these intersect is the recommended repair unit to use.



| Ply Rating / Load Range | Maximum Injury Size - 'C' |              |              |            |                |            |                |            |             |             |             |             |             |             |              |
|-------------------------|---------------------------|--------------|--------------|------------|----------------|------------|----------------|------------|-------------|-------------|-------------|-------------|-------------|-------------|--------------|
|                         | 1/4" (6 mm)               | 3/8" (10 mm) | 1/2" (15 mm) | 1" (25 mm) | 1-1/2" (40 mm) | 2" (50 mm) | 2-1/2" (65 mm) | 3" (75 mm) | 4" (100 mm) | 5" (125 mm) | 6" (150 mm) | 7" (175 mm) | 8" (200 mm) | 9" (225 mm) | 10" (250 mm) |
| 4 / B                   | RU 60                     | RU 75        | RU 90        | B 103      | B 104 L        | B 105      | B 120          | B 120      | B 121       | B 122       | B 122       | B 123       | B 123       | —           | —            |
| 6 / C                   | RU 60                     | RU 75        | RU 90        | B 103      | B 104 L        | B 105      | B 120          | B 120      | B 121       | B 122       | B 122       | B 123       | B 123       | —           | —            |
| 8 / D                   | RU 75                     | RU 90        | RU 90        | B 104 L    | B 104          | B 105      | B 120          | B 120      | B 121       | B 122       | B 122       | B 123       | B 123       | B 126       | B 127        |
| 10 / E                  | RU 75                     | RU 90        | B 103        | B 104 L    | B 105          | B 106      | B 121          | B 121      | B 124       | B 125       | B 125       | B 126       | B 126       | B 127       | B 127        |
| 12 / F                  | RU 75                     | RU 90        | B 104 L      | B 104      | B 105          | B 106      | B 124          | B 124      | B 124       | B 125       | B 125       | B 126       | B 127       | B 127       | B 127        |
| 14 / G                  | RU 75                     | B 104 L      | B 104 L      | B 105      | B 106          | B 106      | B 124          | B 125      | B 125       | B 125       | B 126       | B 127       | B 127       | B 127       | —            |
| 16 / H                  | RU 75                     | B 104 L      | B 104        | B 105      | B 106          | B 106      | B 125          | B 125      | B 125       | B 126       | B 126       | B 127       | B 127       | —           | —            |
| 18 / J                  | RU 90                     | B 104        | B 105        | B 106      | B 106          | B 107      | B 125          | B 125      | B 126       | B 126       | B 127       | B 127       | B 127       | —           | —            |



| Ply Rating | Maximum Injury Size - 'C' |            |            |            |             |             |             |             |             |             |              |              |              |
|------------|---------------------------|------------|------------|------------|-------------|-------------|-------------|-------------|-------------|-------------|--------------|--------------|--------------|
|            | 1/2" (15 mm)              | 1" (25 mm) | 2" (50 mm) | 3" (75 mm) | 4" (100 mm) | 5" (125 mm) | 6" (150 mm) | 7" (175 mm) | 8" (200 mm) | 9" (225 mm) | 10" (250 mm) | 11" (275 mm) | 12" (300 mm) |
| 6 - 8      | B 103                     | B 104 L    | B 105      | B 120      | B 121       | B 122       | B 122       | B 123       | B 123       | B 126       | B 127        | B 150        | B 154        |
| 10 - 12    | B 104 L                   | B 104      | B 106      | B 124      | B 142       | B 142       | B 142       | B 146       | B 146       | B 150       | B 150        | B 154        | B 154        |
| 14 - 16    | B 104                     | B 105      | B 106      | B 125      | B 142       | B 142       | B 146       | B 150       | B 150       | B 150       | B 154        | B 154        | B 154        |
| 18 - 20    | B 105                     | B 106      | B 108      | B 109      | B 142       | B 146       | B 150       | B 150       | B 150       | B 154       | B 154        | B 154        | B 154        |
| 22 - 24    | B 106                     | B 162      | B 163      | B 164      | B 146       | B 150       | B 150       | B 154       | B 154       | B 154       | B 154        | B 169        | B 169        |
| 26 - 28    | B 162                     | B 162      | B 163      | B 165      | B 165       | B 166       | B 167       | B 168       | B 169       | B 168       | B 169        | B 169        | B 170        |

**CROWN injuries only**

| Repair Unit |           |           | Repair Unit Size |        | Ply Rating | SB Series |         |         | CBB Series |        |     | *HB Series |         |         |     |        |    |
|-------------|-----------|-----------|------------------|--------|------------|-----------|---------|---------|------------|--------|-----|------------|---------|---------|-----|--------|----|
| SC Series   | CB Series | HC Series | mm               | inches |            | SB        | CBB     | *HB     | SB         | CBB    | *HB | SB         | CBB     | *HB     |     |        |    |
| SRU 60      | -         | *HRU 60   | Ø 60             | 2-1/4  | 1          | SB 107    | CBB 107 | *HB 107 | 290        | 11-5/8 | 6   | SB 150     | CBB 150 | *HB 150 | 500 | 20     | 3  |
| SRU 75      | -         | *HRU 75   | Ø 75             | 3      | 1          | SB 120    | CBB 120 | *HB 120 | 200        | 8      | 4   | SB 154     | CBB 154 | *HB 154 | 600 | 24     | 4  |
| SRU 90      | -         | *HRU 90   | Ø 90             | 3-1/2  | 2          | SB 121    | CBB 121 | *HB 121 | 225        | 9      | 4   | SB 162     | CBB 162 | -       | 205 | 8-1/8  | 4  |
| SB 103      | CBB 103   | *HB 103   | 100              | 4      | 2          | SB 122    | CBB 122 | *HB 122 | 275        | 11     | 4   | SB 163     | CBB 163 | -       | 230 | 9-1/8  | 4  |
| SB 104 L    | CBB 104 L | -         | 120              | 4-3/4  | 2          | SB 123    | CBB 123 | *HB 123 | 375        | 15     | 4   | SB 164     | CBB 164 | -       | 285 | 11-1/4 | 6  |
| SB 104      | CBB 104   | *HB 104   | 130              | 5-5/16 | 4          | SB 124    | CBB 124 | *HB 124 | 225        | 9      | 6   | SB 165     | CBB 165 | -       | 340 | 13-3/8 | 6  |
| SB 105      | CBB 105   | *HB 105   | 165              | 6-1/2  | 4          | SB 125    | CBB 125 | *HB 125 | 275        | 11     | 6   | SB 166     | CBB 166 | -       | 380 | 15     | 6  |
| SB 106      | CBB 106   | *HB 106   | 240              | 9-9/16 | 6          | SB 126    | CBB 126 | *HB 126 | 375        | 15     | 6   | SB 167     | CBB 167 | -       | 430 | 17     | 8  |
|             |           |           |                  |        |            | SB 127    | CBB 127 | *HB 127 | 490        | 19-1/2 | 6   | SB 168     | CBB 168 | -       | 480 | 18-7/8 | 8  |
|             |           |           |                  |        |            | SB 142    | CBB 142 | *HB 142 | 300        | 12     | 3   | SB 169     | CBB 169 | -       | 530 | 20-7/8 | 10 |
|             |           |           |                  |        |            | SB 146    | CBB 146 | *HB 146 | 400        | 16     | 3   | SB 170     | CBB 170 | -       | 585 | 23     | 10 |

Note: Load, speed and highway application condition may affect section repairs. This repair selection chart is to be used only as a guide.\* Sizes under development.



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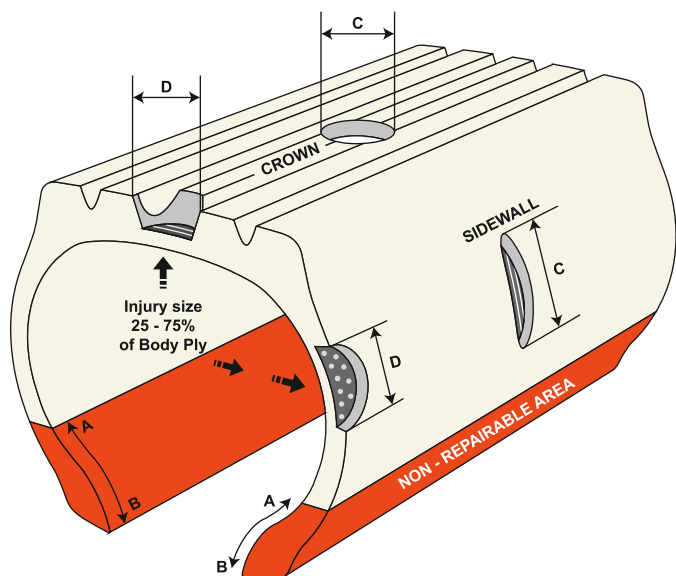
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# Bias Repair Unit Selection Chart Earthmover, Grader, Loader and Dozer

Document No: AA/EN-GB/20/RSC/02/03/04

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| Legend    |   |
|-----------|---|
| A-B / B-A | Non-Repairable Area   |
| C         | Diameter of Injury<br>Type C - through cut  |
| D         | Diameter of Injury<br>Type D - injuries through 25% but less than 75% of the body plies require both hole filling material and reinforced repair unit to be installed inside the tyre |

| Repair Restriction            |                     |
|-------------------------------|---------------------|
| SECTION WIDTH                 | NON-REPAIRABLE AREA |
| 14.00 & Smaller (15.5 - 17.5) | 4" (100mm)          |
| 16.00 - 18.00 (20.5 - 23.5)   | 5" (125mm)          |
| 21.00 - 24.00 (26.5 - 33.25)  | 6" (150mm)          |
| 27.00 - 33.00 (33.5 - 37.5)   | 8" (200mm)          |
| 40 / 65 - 65 / 65             | 10" (250mm)         |
| 36.00 - 40.00                 | 12" (300mm)         |

The above dimension are only guidelines.

**To determine suitable repair unit:** For proper repair unit selection, determine the size of the injury in the tyre by measuring largest cord area removed. Locate the correct injury size along the top row of the chart then locate the tyre's ply rating (load range) along the left column of the same chart. The repair unit size shown in the box where these intersect is the recommended repair unit to use.



| Ply Rating | Maximum Injury Size - 'C' |            |                |            |                |            |             |             |             |             |             |             |              |              |              |
|------------|---------------------------|------------|----------------|------------|----------------|------------|-------------|-------------|-------------|-------------|-------------|-------------|--------------|--------------|--------------|
|            | 1/2" (15 mm)              | 1" (25 mm) | 1-1/2" (40 mm) | 2" (50 mm) | 2-1/2" (65 mm) | 3" (75 mm) | 4" (100 mm) | 5" (125 mm) | 6" (150 mm) | 7" (175 mm) | 8" (200 mm) | 9" (225 mm) | 10" (250 mm) | 11" (275 mm) | 12" (300 mm) |
| 6 - 8      | B 161                     | B 162      | B 162          | B 162      | B 162          | B 163      | —           | —           | —           | —           | —           | —           | —            | —            | —            |
| 10 - 12    | B 161                     | B 162      | B 162          | B 162      | B 162          | B 163      | B 164       | —           | —           | —           | —           | —           | —            | —            | —            |
| 14 - 16    | B 161                     | B 162      | B 162          | B 163      | B 163          | B 164      | B 164       | B 164       | B 165       | —           | —           | —           | —            | —            | —            |
| 18 - 20    | B 162                     | B 162      | B 162          | B 163      | B 163          | B 164      | B 164       | B 165       | B 165       | B 166       | —           | —           | —            | —            | —            |
| 22 - 24    | B 162                     | B 162      | B 162          | B 163      | B 163          | B 164      | B 165       | B 165       | B 166       | B 167       | B 167       | B 168       | —            | —            | —            |
| 26 - 28    | B 162                     | B 162      | B 163          | B 163      | B 164          | B 165      | B 165       | B 166       | B 167       | B 167       | B 168       | B 169       | B 169        | B 169        | B 170        |
| 30 - 36    | B 162                     | B 162      | B 163          | B 163      | B 164          | B 165      | B 166       | B 166       | B 167       | B 168       | B 169       | B 169       | B 169        | B 170        | B 170        |
| 38 - 44    | B 162                     | B 162      | B 163          | B 163      | B 164          | B 166      | B 166       | B 167       | B 168       | B 168       | B 169       | B 169       | B 170        | B 170        | B 170        |
| 46 - 50    | B 162                     | B 163      | B 164          | B 164      | B 165          | B 166      | B 167       | B 168       | B 168       | B 169       | B 170       | B 170       | B 171        | B 171        | B 171        |
| 52 - 58    | B 162                     | B 163      | B 164          | B 164      | B 165          | B 166      | B 167       | B 168       | B 168       | B 170       | B 170       | B 171       | B 171        | B 171        | B 171        |
| 60 +       | B 162                     | B 164      | B 165          | B 165      | B 166          | B 167      | B 168       | B 168       | B 169       | B 170       | B 171       | B 171       | B 171        | B 171        | —            |

CROWN injuries only

| Repair Unit |           |           | Repair Unit Size |        | Ply Rating |
|-------------|-----------|-----------|------------------|--------|------------|
| SC Series   | CB Series | HC Series | mm               | inches |            |
| SB 161      | CBB 161   | -         | 180              | 7-1/8  | 2          |
| SB 162      | CBB 162   | -         | 205              | 8-1/8  | 4          |
| SB 163      | CBB 163   | -         | 230              | 9-1/8  | 4          |
| SB 164      | CBB 164   | -         | 285              | 11-1/4 | 6          |
| SB 165      | CBB 165   | -         | 340              | 13-3/8 | 6          |
| SB 166      | CBB 166   | -         | 380              | 15     | 6          |
| SB 167      | CBB 167   | -         | 430              | 17     | 8          |
| SB 168      | CBB 168   | -         | 480              | 18-7/8 | 8          |
| SB 169      | CBB 169   | -         | 530              | 20-7/8 | 10         |
| SB 170      | CBB 170   | -         | 585              | 23     | 10         |
| SB 171      | CBB 171   | -         | 620              | 24-3/8 | 10         |



| Ply Rating | Maximum Injury Size - 'D' |            |            |             |             |             |              |
|------------|---------------------------|------------|------------|-------------|-------------|-------------|--------------|
|            | 1" (25 mm)                | 2" (50 mm) | 3" (75 mm) | 4" (100 mm) | 6" (150 mm) | 8" (200 mm) | 10" (250 mm) |
| 10 - 14    | B 161                     | B 162      | B 163      | B 163       | B 164       | —           | —            |
| 16 - 20    | B 162                     | B 162      | B 163      | B 163       | B 164       | —           | —            |
| 22 - 28    | B 162                     | B 162      | B 164      | B 164       | B 165       | B 167       | B 168        |
| 30 - 44    | B 162                     | B 162      | B 165      | B 165       | B 166       | B 168       | B 169        |
| 46 - 58    | B 163                     | B 164      | B 165      | B 166       | B 167       | B 169       | B 170        |
| 60+        | B 163                     | B 164      | B 166      | B 167       | B 168       | B 170       | B 171        |

Note: Load, speed and highway application condition may affect section repairs. This repair selection chart is to be used only as a guide.



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