

# SUSPENSION AND AXLE

SS00J-10

## SERVICE DATA

|                              |                                                |                            |                                                                                                                                        |
|------------------------------|------------------------------------------------|----------------------------|----------------------------------------------------------------------------------------------------------------------------------------|
| Cold tire inflation pressure | Tire size                                      |                            |                                                                                                                                        |
|                              | P275/65R17                                     | Front                      | 200 kPa (2.0 kgf/cm <sup>2</sup> , 29 psi)                                                                                             |
|                              | P275/60R18                                     | Rear                       | *220 kPa (2.2 kgf/cm <sup>2</sup> , 32 psi)                                                                                            |
|                              |                                                |                            | 220 kPa (2.2 kgf/cm <sup>2</sup> , 32 psi)                                                                                             |
|                              |                                                |                            | *240 kPa (2.4 kgf/cm <sup>2</sup> , 35 psi)                                                                                            |
| Front wheel alignment        | Vehicle height                                 |                            |                                                                                                                                        |
|                              | Front                                          | A – B                      | 71 mm (2.795 in.)                                                                                                                      |
|                              | Rear                                           | C – D                      | 51 mm (2.008 in.)                                                                                                                      |
|                              | Camber                                         |                            | 0° 05' ± 45' (0.08° ± 0.75°)                                                                                                           |
|                              |                                                | Right-left error           | 30' (0.5°) or less                                                                                                                     |
|                              | Caster                                         |                            | 2° 30' ± 45' (2.5° ± 0.75°)                                                                                                            |
|                              |                                                | Right-left error           | 30' (0.5°) or less                                                                                                                     |
| Steering axis inclination    |                                                |                            | 12° 10' ± 45' (12.17° ± 0.75°)                                                                                                         |
|                              |                                                | Right-left error           | 30' (0.5°) or less                                                                                                                     |
|                              | Toe-in (total)                                 |                            | 0° 06' ± 12' (0.1° ± 0.2°, 1 ± 2 mm, 0.04 ± 0.08 in.)                                                                                  |
|                              |                                                | Rack end length difference | 3.0 mm (0.118 in.) or less                                                                                                             |
| Wheel angle                  |                                                | Inside wheel               | 36° 42' (33° 42' – 36° 42')                                                                                                            |
|                              |                                                | Outside wheel: Reference   | 36.7° (33.7° – 36.7°)                                                                                                                  |
|                              |                                                |                            | 32° 36'                                                                                                                                |
|                              |                                                |                            | 32.6°                                                                                                                                  |
| Front axle                   | Front axle hub preload (at starting)           |                            | 42 – 67 N (4.3 – 6.8 kgf, 9.5 – 15.0 lbf)                                                                                              |
|                              | Snap ring thickness                            |                            | 1.8 mm (0.0709 in.)<br>2.0 mm (0.0787 in.)<br>2.2 mm (0.0866 in.)<br>2.4 mm (0.0945 in.)<br>2.6 mm (0.1024 in.)<br>2.8 mm (0.1102 in.) |
| Front drive shaft            | Front drive shaft length                       |                            | 573.9 ± 5.0 mm (22.594 ± 0.197 in.)                                                                                                    |
| Front suspension             | Upper suspension arm ball joint turning torque |                            | 1.0 – 4.4 N·m (10 – 45 kgf·cm, 8.9 – 39 in.·lbf)                                                                                       |
|                              | Lower suspension arm ball joint turning torque |                            | 0.29 – 2.94 N·m (3 – 30 kgf·cm, 2.6 – 26 in.·lbf)                                                                                      |
| Rear axle shaft              | Bearing backlash                               | Max.                       | 0.6 mm (0.024 in.)                                                                                                                     |
|                              | Axle shaft deviation                           | Max.                       | 0.05 mm (0.0020 in.)                                                                                                                   |
|                              | Axle shaft runout                              | Max.                       | 2.0 mm (0.079 in.)                                                                                                                     |
|                              | Axle shaft flange runout                       | Max.                       | 0.05 mm (0.0020 in.)                                                                                                                   |

\*: Trailer towing

A: Ground clearance of spindle center

B: Ground clearance of lower suspension arm front bolt center

C: Ground clearance of rear axle shaft center

D: Ground clearance of lower control arm front bushing center

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|                    |                                            |                               |                                                                                                            |
|--------------------|--------------------------------------------|-------------------------------|------------------------------------------------------------------------------------------------------------|
| Front differential | Companion flange vertical runout           | Max.                          | 0.09 mm (0.0035 in.)                                                                                       |
|                    | Companion flange lateral runout            | Max.                          | 0.09 mm (0.0035 in.)                                                                                       |
|                    | Drive pinion preload (at starting)         | New bearing<br>Reused bearing | 1.0 – 1.6 N·m (10 – 16 kgf·cm, 8.9 – 14.2 in.·lbf)<br>0.5 – 0.8 N·m (5 – 8 kgf·cm, 4.4 – 7.1 in.·lbf)      |
|                    | Total preload (at starting)                |                               | Drive pinion preload plus<br>0.4 – 0.6 N·m (4 – 6 kgf·cm, 3.5 – 5.3 in.·lbf)                               |
|                    | Ring gear runout                           | Max.                          | 0.07 mm (0.0028 in.)                                                                                       |
|                    | Ring gear backlash                         |                               | 0.13 – 0.18 mm (0.0051 – 0.0071 in.)                                                                       |
|                    | Side gear backlash                         |                               | 0.05 – 0.20 mm (0.0020 – 0.0079 in.)                                                                       |
|                    | Differential case runout                   | Max.                          | 0.07 mm (0.0028 in.)                                                                                       |
|                    | Front differential oil seal drive in depth |                               | 1.5 mm (0.059 in.)                                                                                         |
|                    | Side gear thrust washer thickness          |                               | 0.9 mm (0.035 in.)<br>1.0 mm (0.039 in.)<br>1.1 mm (0.043 in.)<br>1.2 mm (0.047 in.)<br>1.3 mm (0.051 in.) |

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| Front differential | Side bearing adjusting washer thickness | 2.58 mm (0.1016 in.)<br>2.60 mm (0.1024 in.)<br>2.62 mm (0.1031 in.)<br>2.64 mm (0.1039 in.)<br>2.66 mm (0.1047 in.)<br>2.68 mm (0.1055 in.)<br>2.70 mm (0.1063 in.)<br>2.72 mm (0.1071 in.)<br>2.74 mm (0.1079 in.)<br>2.76 mm (0.1087 in.)<br>2.78 mm (0.1094 in.)<br>2.80 mm (0.1102 in.)<br>2.82 mm (0.1110 in.)<br>2.84 mm (0.1118 in.)<br>2.86 mm (0.1126 in.)<br>2.88 mm (0.1134 in.)<br>2.90 mm (0.1142 in.)<br>2.92 mm (0.1150 in.)<br>2.94 mm (0.1157 in.)<br>2.96 mm (0.1165 in.)<br>2.98 mm (0.1173 in.)<br>3.00 mm (0.1181 in.)<br>3.02 mm (0.1189 in.)<br>3.04 mm (0.1197 in.)<br>3.06 mm (0.1205 in.)<br>3.08 mm (0.1213 in.)<br>3.10 mm (0.1220 in.)<br>3.12 mm (0.1228 in.)<br>3.14 mm (0.1236 in.)<br>3.16 mm (0.1244 in.)<br>3.18 mm (0.1252 in.)<br>3.20 mm (0.1260 in.)<br>3.22 mm (0.1268 in.)<br>3.24 mm (0.1276 in.)<br>3.26 mm (0.1283 in.)<br>3.28 mm (0.1291 in.)<br>3.30 mm (0.1299 in.)<br>3.32 mm (0.1307 in.)<br>3.34 mm (0.1315 in.)<br>3.36 mm (0.1323 in.)<br>3.38 mm (0.1331 in.)<br>3.40 mm (0.1339 in.)<br>3.42 mm (0.1346 in.)<br>3.44 mm (0.1354 in.)<br>3.46 mm (0.1362 in.)<br>3.48 mm (0.1370 in.) |
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## SERVICE SPECIFICATIONS – SUSPENSION AND AXLE

|                    |                                                 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
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| Front differential | Drive pinion bearing adjusting washer thickness | 1.70 mm (0.067 in.)<br>1.73 mm (0.068 in.)<br>1.76 mm (0.069 in.)<br>1.79 mm (0.070 in.)<br>1.82 mm (0.072 in.)<br>1.85 mm (0.073 in.)<br>1.88 mm (0.074 in.)<br>1.91 mm (0.075 in.)<br>1.94 mm (0.076 in.)<br>1.97 mm (0.078 in.)<br>2.00 mm (0.079 in.)<br>2.03 mm (0.080 in.)<br>2.06 mm (0.081 in.)<br>2.09 mm (0.082 in.)<br>2.12 mm (0.083 in.)<br>2.15 mm (0.085 in.)<br>2.18 mm (0.086 in.)<br>2.21 mm (0.087 in.)<br>2.24 mm (0.088 in.)<br>2.27 mm (0.089 in.)<br>2.30 mm (0.091 in.)<br>2.33 mm (0.092 in.) |
|--------------------|-------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|

|                   |                                                  |                               |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
|-------------------|--------------------------------------------------|-------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Rear differential | Companion flange vertical runout                 | Max.                          | 0.10 mm (0.0039 in.)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
|                   | Companion flange lateral runout                  | Max.                          | 0.10 mm (0.0039 in.)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
|                   | Drive pinion preload (at starting)               | New bearing<br>Reused bearing | 1.3 – 1.8 N·m (13 – 19 kgf·cm, 11.5 – 15.9 in.·lbf)<br>0.64 – 0.92 N·m (6.5 – 9.4 kgf·cm, 5.7 – 8.1 in.·lbf)                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
|                   | Total preload (at starting)                      |                               | Drive pinion preload plus<br>0.38 – 0.63 N·m (3.9 – 6.5 kgf·cm, 3.3 – 5.6 in.·lbf)                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
|                   | Ring gear runout                                 | Max.                          | 0.05 mm (0.0020 in.)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
|                   | Ring gear backlash                               |                               | 0.13 – 0.18 mm (0.0051 – 0.0071 in.)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
|                   | Side gear backlash                               |                               | 0.02 – 0.15 mm (0.0008 – 0.0059 in.)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
|                   | Differential case runout                         | Max.                          | 0.04 mm (0.0016 in.)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
|                   | Rear differential front oil seal drive in depth  |                               | 0.5 mm (0.020 in.)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
|                   | Side gear thrust washer thickness                |                               | 1.55 mm (0.061 in.)<br>1.60 mm (0.063 in.)<br>1.65 mm (0.065 in.)<br>1.70 mm (0.067 in.)<br>1.75 mm (0.069 in.)<br>1.80 mm (0.071 in.)<br>1.85 mm (0.073 in.)<br>1.90 mm (0.075 in.)<br>1.95 mm (0.077 in.)<br>2.00 mm (0.079 in.)<br>2.05 mm (0.081 in.)<br>2.10 mm (0.083 in.)                                                                                                                                                                                                                                                                               |
|                   | Tooth contact pattern adjusting washer thickness |                               | 1.050 mm (0.04134 in.)<br>1.075 mm (0.04232 in.)<br>1.100 mm (0.04331 in.)<br>1.125 mm (0.04429 in.)<br>1.150 mm (0.04528 in.)<br>1.175 mm (0.04626 in.)<br>1.200 mm (0.04724 in.)<br>1.225 mm (0.04823 in.)<br>1.250 mm (0.04921 in.)<br>1.275 mm (0.05020 in.)<br>1.300 mm (0.05118 in.)<br>1.325 mm (0.05217 in.)<br>1.350 mm (0.05315 in.)<br>1.375 mm (0.05413 in.)<br>1.400 mm (0.05512 in.)<br>1.425 mm (0.05610 in.)<br>1.450 mm (0.05709 in.)<br>1.475 mm (0.05807 in.)<br>1.500 mm (0.05906 in.)<br>1.525 mm (0.06004 in.)<br>1.550 mm (0.06102 in.) |

## SERVICE SPECIFICATIONS – SUSPENSION AND AXLE

|                                      |                                                 |                               |                                                                                                                                                                                                                                                                                  |
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| Rear differential<br>(w/ Diff. Lock) | Companion flange vertical runout                | Max.                          | 0.10 mm (0.0039 in.)                                                                                                                                                                                                                                                             |
|                                      | Companion flange lateral runout                 | Max.                          | 0.10 mm (0.0039 in.)                                                                                                                                                                                                                                                             |
|                                      | Drive pinion preload (at starting)              | New bearing<br>Reused bearing | 1.3 – 1.8 N·m (13 – 19 kgf·cm, 11.5 – 15.9 in.·lbf)<br>0.64 – 0.92 N·m (6.5 – 9.4 kgf·cm, 5.7 – 8.1 in.·lbf)                                                                                                                                                                     |
|                                      | Total preload (at starting)                     |                               | Drive pinion preload plus<br>0.3 – 0.5 N·m (3 – 5 kgf·cm, 2.7 – 4.4 in.·lbf)                                                                                                                                                                                                     |
|                                      | Ring gear runout                                | Max.                          | 0.05 mm (0.0020 in.)                                                                                                                                                                                                                                                             |
|                                      | Ring gear backlash                              |                               | 0.13 – 0.18 mm (0.0051 – 0.0071 in.)                                                                                                                                                                                                                                             |
|                                      | Side gear backlash                              |                               | 0.02 – 0.15 mm (0.0008 – 0.0059 in.)                                                                                                                                                                                                                                             |
|                                      | Differential case runout                        | Max.                          | 0.04 mm (0.0016 in.)                                                                                                                                                                                                                                                             |
|                                      | Rear differential front oil seal drive in depth |                               | 0.5 mm (0.020 in.)                                                                                                                                                                                                                                                               |
|                                      | Side gear thrust washer thickness               |                               | 1.55 mm (0.061 in.)<br>1.60 mm (0.063 in.)<br>1.65 mm (0.065 in.)<br>1.70 mm (0.067 in.)<br>1.75 mm (0.069 in.)<br>1.80 mm (0.071 in.)<br>1.85 mm (0.073 in.)<br>1.90 mm (0.075 in.)<br>1.95 mm (0.077 in.)<br>2.00 mm (0.079 in.)<br>2.05 mm (0.081 in.)<br>2.10 mm (0.083 in.) |
|                                      | Ring gear backlash adjusting washer thickness   | Mark                          |                                                                                                                                                                                                                                                                                  |
|                                      |                                                 | 1                             | 2.67 mm (0.1051 in.)                                                                                                                                                                                                                                                             |
|                                      |                                                 | 2                             | 2.70 mm (0.1063 in.)                                                                                                                                                                                                                                                             |
|                                      |                                                 | 3                             | 2.73 mm (0.1075 in.)                                                                                                                                                                                                                                                             |
|                                      |                                                 | 4                             | 2.76 mm (0.1087 in.)                                                                                                                                                                                                                                                             |
|                                      |                                                 | 5                             | 2.79 mm (0.1098 in.)                                                                                                                                                                                                                                                             |
|                                      |                                                 | 6                             | 2.82 mm (0.1110 in.)                                                                                                                                                                                                                                                             |
|                                      |                                                 | 7                             | 2.85 mm (0.1122 in.)                                                                                                                                                                                                                                                             |
|                                      |                                                 | 8                             | 2.88 mm (0.1134 in.)                                                                                                                                                                                                                                                             |
|                                      |                                                 | 9                             | 2.91 mm (0.1146 in.)                                                                                                                                                                                                                                                             |
|                                      |                                                 | 10                            | 2.94 mm (0.1157 in.)                                                                                                                                                                                                                                                             |
|                                      |                                                 | 11                            | 2.97 mm (0.1169 in.)                                                                                                                                                                                                                                                             |
|                                      |                                                 | 12                            | 3.00 mm (0.1181 in.)                                                                                                                                                                                                                                                             |
|                                      |                                                 | 13                            | 3.03 mm (0.1193 in.)                                                                                                                                                                                                                                                             |
|                                      |                                                 | 14                            | 3.06 mm (0.1205 in.)                                                                                                                                                                                                                                                             |
|                                      |                                                 | 15                            | 3.09 mm (0.1217 in.)                                                                                                                                                                                                                                                             |
|                                      |                                                 | 16                            | 3.12 mm (0.1228 in.)                                                                                                                                                                                                                                                             |
|                                      |                                                 | 17                            | 3.15 mm (0.1240 in.)                                                                                                                                                                                                                                                             |
|                                      |                                                 | 18                            | 3.18 mm (0.1252 in.)                                                                                                                                                                                                                                                             |
|                                      |                                                 | 19                            | 3.21 mm (0.1264 in.)                                                                                                                                                                                                                                                             |
|                                      |                                                 | 20                            | 3.24 mm (0.1276 in.)                                                                                                                                                                                                                                                             |
|                                      |                                                 | 21                            | 3.27 mm (0.1287 in.)                                                                                                                                                                                                                                                             |
|                                      |                                                 | 22                            | 3.30 mm (0.1299 in.)                                                                                                                                                                                                                                                             |
|                                      |                                                 | 23                            | 3.33 mm (0.1311 in.)                                                                                                                                                                                                                                                             |

|                                      |                                                  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
|--------------------------------------|--------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Rear differential<br>(w/ Diff. Lock) | Tooth contact pattern adjusting washer thickness | 1.050 mm (0.04134 in.)<br>1.075 mm (0.04232 in.)<br>1.100 mm (0.04331 in.)<br>1.125 mm (0.04429 in.)<br>1.150 mm (0.04528 in.)<br>1.175 mm (0.04626 in.)<br>1.200 mm (0.04724 in.)<br>1.225 mm (0.04823 in.)<br>1.250 mm (0.04921 in.)<br>1.275 mm (0.05020 in.)<br>1.300 mm (0.05118 in.)<br>1.325 mm (0.05217 in.)<br>1.350 mm (0.05315 in.)<br>1.375 mm (0.05413 in.)<br>1.400 mm (0.05512 in.)<br>1.425 mm (0.05610 in.)<br>1.450 mm (0.05709 in.)<br>1.475 mm (0.05807 in.)<br>1.500 mm (0.05906 in.)<br>1.525 mm (0.06004 in.)<br>1.550 mm (0.06102 in.) |
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## SERVICE SPECIFICATIONS – SUSPENSION AND AXLE

|                               |                                                  |                               |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
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| Rear differential<br>(w/ LSD) | Companion flange vertical runout                 | Max.                          | 0.10 mm (0.0039 in.)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
|                               | Companion flange lateral runout                  | Max.                          | 0.10 mm (0.0039 in.)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
|                               | Drive pinion preload (at starting)               | New bearing<br>Reused bearing | 1.3 – 1.8 N·m (13 – 19 kgf·cm, 11.5 – 15.9 in.·lbf)<br>0.64 – 0.92 N·m (6.5 – 9.4 kgf·cm, 5.7 – 8.1 in.·lbf)                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
|                               | Total preload (at starting)                      |                               | Drive pinion preload plus<br>0.38 – 0.63 N·m (3.9 – 6.5 kgf·cm, 3.3 – 5.6 in.·lbf)                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
|                               | Ring gear runout                                 | Max.                          | 0.05 mm (0.0020 in.)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
|                               | Ring gear backlash                               |                               | 0.13 – 0.18 mm (0.0051 – 0.0071 in.)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
|                               | Side gear backlash                               |                               | 0.02 – 0.15 mm (0.0008 – 0.0059 in.)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
|                               | Differential case runout                         | Max.                          | 0.04 mm (0.0016 in.)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
|                               | Side gear thrust washer thickness (Reference)    |                               | 1.97 – 2.06 mm (0.0776 – 0.0811 in.)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
|                               | Clutch plate thickness (Reference)               |                               | 1.97 – 2.03 mm (0.0776 – 0.0799 in.)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
|                               | Compression spring free length (Reference)       |                               | 32.8 mm (1.291 in.)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
|                               | Rear differential front oil seal drive in depth  |                               | 0.5 mm (0.020 in.)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
|                               | Adjusting shim thickness                         | Mark                          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
|                               |                                                  | A                             | 0.20 mm (0.0079 in.)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
|                               |                                                  | B                             | 0.25 mm (0.0098 in.)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
|                               |                                                  | C                             | 0.30 mm (0.0118 in.)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
|                               |                                                  | D                             | 0.35 mm (0.0138 in.)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
|                               | Tooth contact pattern adjusting washer thickness |                               | 1.050 mm (0.04134 in.)<br>1.075 mm (0.04232 in.)<br>1.100 mm (0.04331 in.)<br>1.125 mm (0.04429 in.)<br>1.150 mm (0.04528 in.)<br>1.175 mm (0.04626 in.)<br>1.200 mm (0.04724 in.)<br>1.225 mm (0.04823 in.)<br>1.250 mm (0.04921 in.)<br>1.275 mm (0.05020 in.)<br>1.300 mm (0.05118 in.)<br>1.325 mm (0.05217 in.)<br>1.350 mm (0.05315 in.)<br>1.375 mm (0.05413 in.)<br>1.400 mm (0.05512 in.)<br>1.425 mm (0.05610 in.)<br>1.450 mm (0.05709 in.)<br>1.475 mm (0.05807 in.)<br>1.500 mm (0.05906 in.)<br>1.525 mm (0.06004 in.)<br>1.550 mm (0.06102 in.) |