



Ring Gear Tooth Contact

Ring Gear Backlash

Adjustment

1) Correct Tooth Contact



2) Toe Contact

- Use a thinner drive pinion shim (43 mm thrust shim) to move the drive pinion away from the ring gear.



3) Heel Contact

- Use a thicker drive pinion shim (43 mm thrust shim) to move the drive pinion toward the ring gear.



4) Flank Contact

- To move the ring gear away from the drive pinion, use a thicker side bearing shim (79.5 mm thrust shim) on the drive pinion side and a thinner one on the ring gear side.

NOTE: Recheck backlash after replacing the side bearing shims. If out of specification, adjust as described under Toe Contact.



5) Face Contact

- To move the ring gear toward the drive pinion, use a thinner side bearing shim (79.5 mm thrust shim) on the drive pinion side and a thicker one on the ring gear side.

NOTE: Recheck backlash after replacing the side bearing shims. If out of specification, adjust as described under Heel Contact.



Adjustment

- If the backlash exceeds the standard, correct by decreasing the shim thickness on one side and increasing the thickness of the other shim the same amount.

NOTE:

- The total thickness of both shims must still equal the total thickness of the original shims.
- If there is too much backlash, move the ring gear toward the drive pinion. If there is not enough backlash, move the ring gear away from the drive pinion.

- After adjustment, recheck backlash (see page, [15-10](#)).

Standard: 0.06 - 0.14 mm (0.002 - 0.006 in)

79.5 mm THRUST SHIM

	Part Number	Thickness
AA	41460-P5D-000	0.66 mm (0.0260 in)
AB	41461-P5D-000	1.17 mm (0.0461 in)
AC	41462-P5D-000	1.20 mm (0.0472 in)
AD	41 463 -PSD -000	1.23 mm (0.0484 in)
AE	41464-P5D-000	1.26 mm (0.0496 in)
AF	41 465 -PSD -000	1.29 mm (0.0508 in)
AG	41466-P5D-000	1.32 mm (0.0520 in)
AH	41467 -PSD -000	1.35 mm (0.0531 in)
AI	41468-P5D-000	1.38 mm (0.0543 in)
AJ	41 469 -PSD -000	1.41 mm (0.0555 in)
AK	41 470 -PSD -000	1.44 mm (0.0567 in)
AL	41471 -PSD -000	1.47 mm (0.0579 in)
AM	41 472 -PSD -000	1.50 mm (0.0591 in)
AN	41 473 -PSD -000	1.53 mm (0.0602 in)
AO	41 474 -PSD -000	1.56 mm (0.0614 in)
AP	41 475 -PSD -000	1.59 mm (0.0626 in)
AQ	41 476 -PSD -000	1.62 mm (0.0638 in)
AR	41 477 -PSD -000	1.65 mm (0.0650 in)
AS	41 478 -PSD -000	1.68 mm (0.0661 in)
AT	41479-P5D-000	1.71 mm (0.0673 in)
AU	41 480 -PSD -000	1.74 mm (0.0685 in)
AV	41481-P5D-000	1.77 mm (0.0697 in)
AW	41 482 -PSD -000	1.80 mm (0.0709 in)
AX	41 483 -PSD -000	1.83 mm (0.0720 in)