

Revisions to this document are noted
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SIL 15-WT-01, Rev. A
January, 2017
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SUBJECT: Reduced Clearance Planetary Spindles and Spindle Retaining Rings

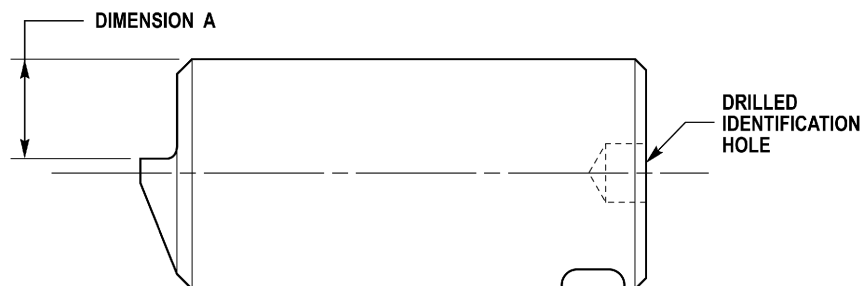
MODELS AFFECTED: All MD 3000/B 300/B 400/3000 MH

SERIAL NUMBERS AFFECTED: 6510287815

Introduction:

As a product improvement beginning September 13, 2000 the planetary spindles for the P1, P2, and P3 planetary gear sets have been improved to decrease the clearance between the spindle and the spindle retaining ring. Also P1, P2, and P3 planetary spindle retainer hardness has been increased. Spindle design improvements decrease spindle rotation. A reduction in spindle rotation/increase in retainer hardness minimizes spindle to carrier bore wear and spindle to retainer wear.

Update 2017: The drilled hole identification in the planetary spindle as described in [Figure 1](#) is no longer necessary. The drilled hole identification has been removed. The planetary spindle part numbers remain the same and there are no changes to the spindle retaining ring.



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Figure 1. Drilled Hole in Spindle

MC / SL7960EN

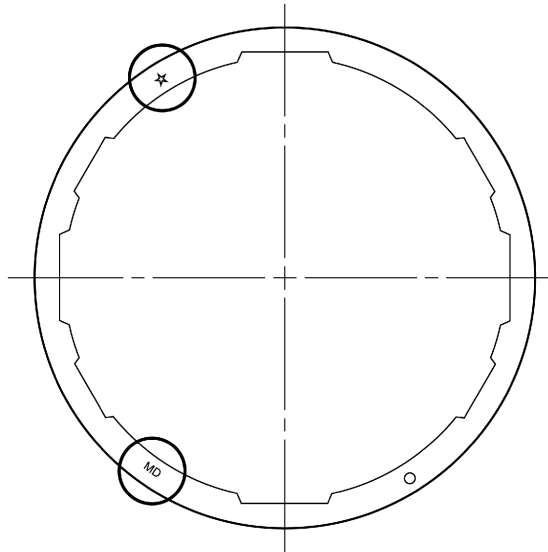
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Identification:

Current planetary spindles can be identified by a shallow drilled hole in the end of the spindle (refer to [Figure 1](#)). Current P1, P2, and P3 planetary spindle retainer can be identified by a star stamped on the face of the retainer (refer to [Figure 2](#)).



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Figure 2. Retainer Face

Update 2017: In transmissions manufactured on or after October 2016, the drilled identification hole has been removed from all planetary spindle part numbers shown (refer to [Figure 1](#)). All affected part numbers are forward and backward compatible. Drilled and un-drilled spindles may be mixed randomly within each planetary assembly.

Interchangeability:

Previous design P1, P2, and P3 planetary spindles have been completely canceled. Current planetary spindles are interchangeable backwards. Previous design planetary spindle retainers have been completely canceled. Current planetary spindle retainers are interchangeable backwards.

Part	Current P/N	Dimension A Current	Prior P/N	Dimension A Prior
P1 Spindle	29537931	4.97-5.27 mm (0.196-0.207 inch)	29501557	4.95-5.55 mm (0.195-0.219 inch)
P2 Spindle (CR)	29537932	10.62-10.92 mm (0.418-0.430 inch)	29501556	10.60-11.20 mm (0.417-0.441 inch)
P2 Spindle (WR, xFE)	29537933	9.12-9.42 mm (0.359-0.371 inch)	29501555	9.20-9.80 mm (0.362-0.386 inch)
P3 Spindle (CR)	29537934	9.82-10.12 mm (0.387-0.398 inch)	29501574	9.80-10.40 mm (0.386-0.409 inch)
P3 Spindle (WR)	29537935	11.82-12.12 mm (0.465-0.477 inch)	29501580	11.81-12.41 mm (0.465-0.489 inch)
P1 Retainer	29537939	N/A	29501558	N/A

Part	Current P/N	Dimension A Current	Prior P/N	Dimension A Prior
P2 Retainer	29537940	N/A	29501560	N/A
P3 Retainer (CR)	29537941	N/A	29501575	N/A
P3 Retainer (WR)	29537940	N/A	29501581	N/A