



# Technical Service Information

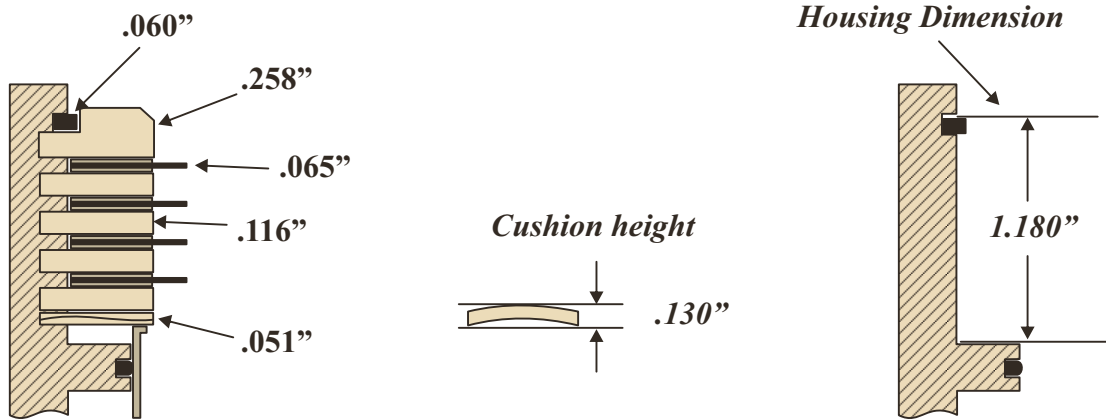
## **GM 6T70 AND FORD 6F50 3-5-REVERSE DRUM AND CLUTCH ASSEMBLY DIFFERENCES**

**COMPLAINT:** During the overhaul process, a Ford 6F50 3-5-Reverse Clutch drum is used to replace the drum on a 6T70. In stacking up the clutch assembly using a new 6T70 cushion spring, it is noted that the 3-5- Reverse Clutch clearance is too tight.

**CAUSE:** The cause is the new 6T70 cushion spring being used in a 6F50 3-5-Reverse Drum because the 6T70 and 6F50 3-5-Reverse Drum have different dimensions (See Figure 1). Since the dimensions for these housings are different, the 6F50 utilizes a thinner cushion spring. This thinner Cushion Spring requires less distance from the top of the retaining snap ring to the area on the edge of the piston. Therefore, if the 6T70 cushion spring is used in place of the 6F50 cushion, there will be little to no clearance. Figure 1 also reveals that although the cushion plates are different, the clutch thickness and snap ring thickness are the same for both housings. Refer to Figure 2 for the 6T70 stack- up showing the thicker-wavier cushion spring, and refer to Figure 3 for the 6F50 stack -up.

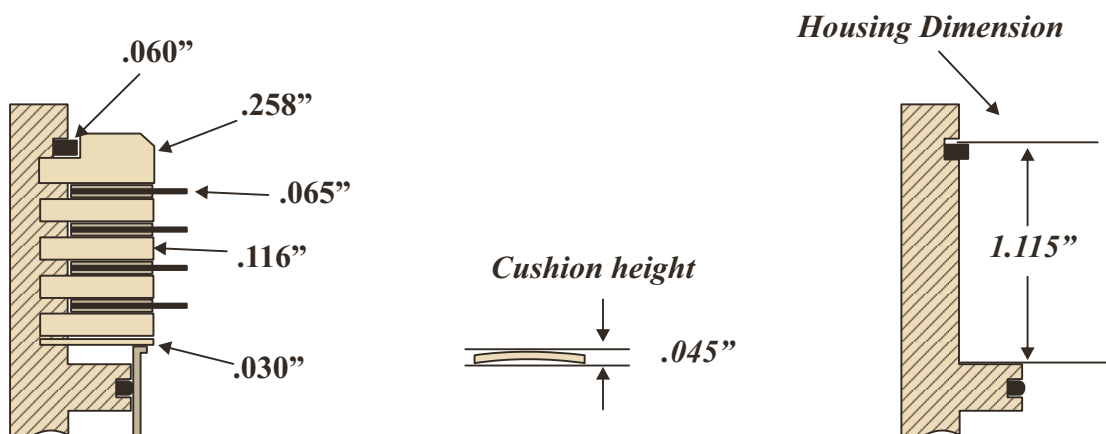
**CORRECTION:** Verify the dimensions in Figure 1-3 for both the cushion and the 3-5-Reverse Clutch housing and match the correct cushion dimension to clutch housing.

## GM 3-5-REVERSE DRUM ASSEMBLY



*Note: Housing dimension measured with snap ring seated in groove*

## FORD 3-5-REVERSE DRUM ASSEMBLY



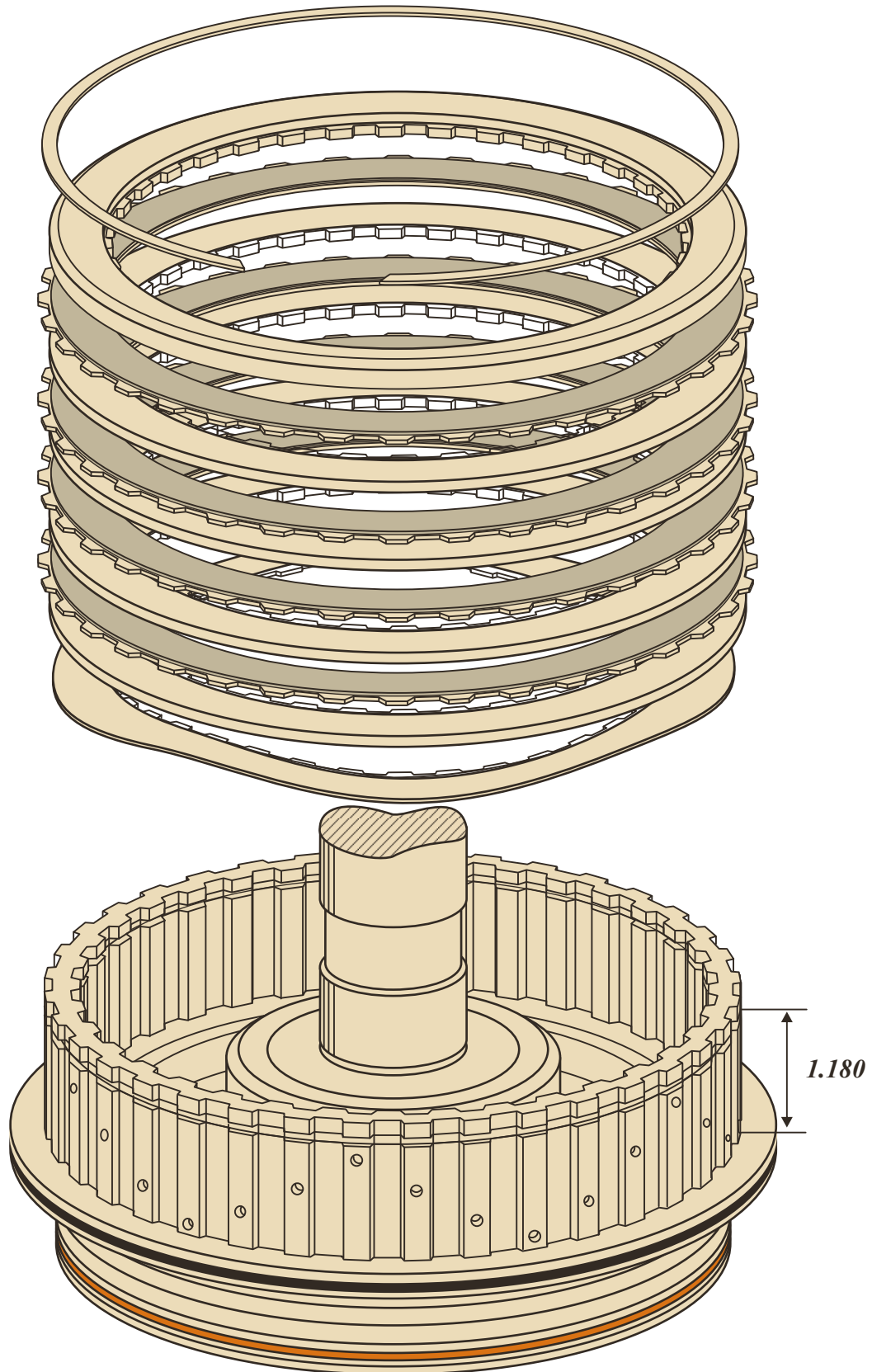
*Typical clutch clearance is approximately .065"*

*Note: Housing dimension measured with snap ring seated in groove*

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Figure 1

## GM 3-5-REVERSE DRUM AND CLUTCH ASSEMBLY

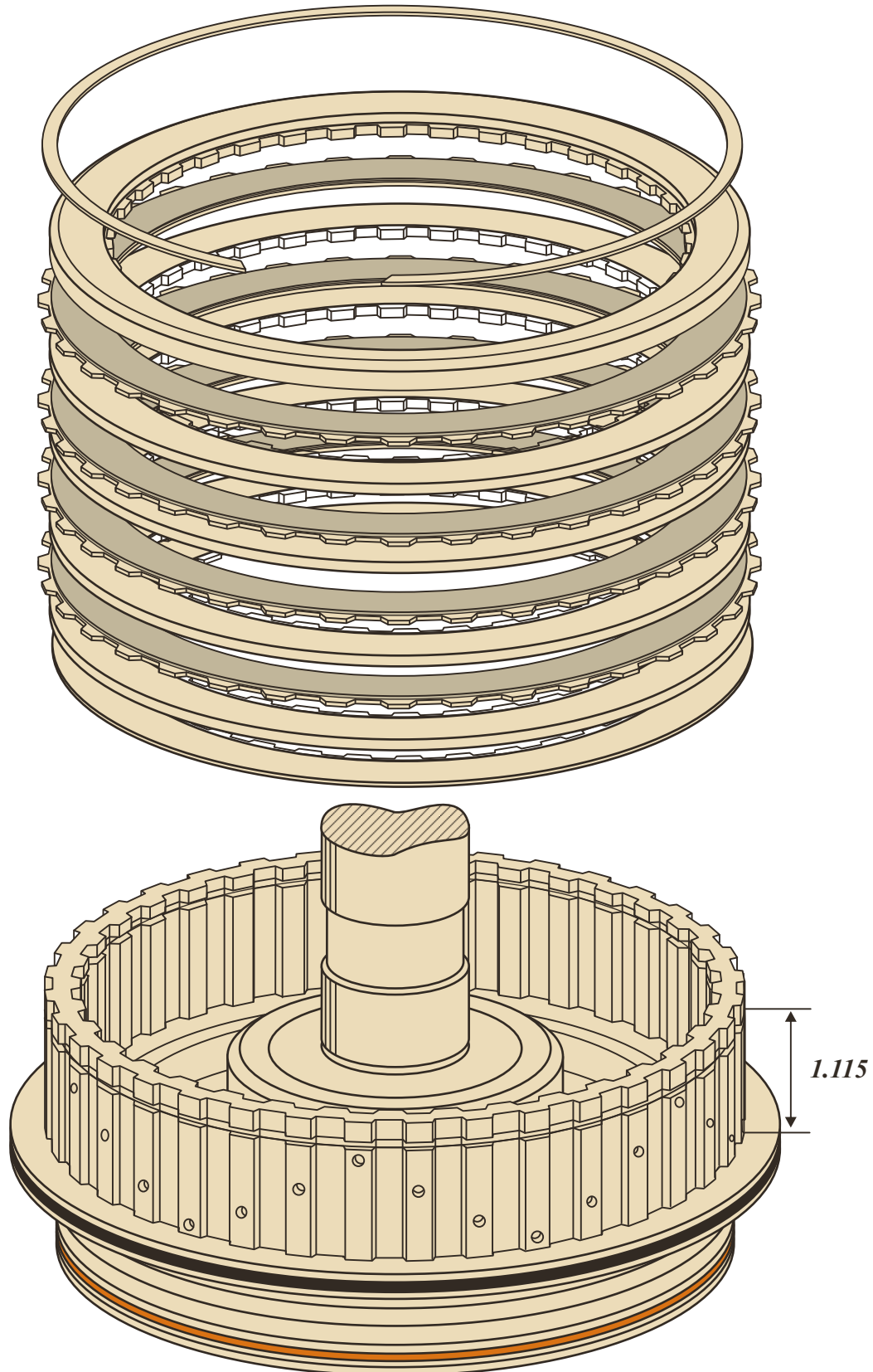


*Note: Measured with snap ring seated in groove*

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Figure 2

## FORD 3-5-REVERSE DRUM AND CLUTCH ASSEMBLY



*Note: Measured with snap ring seated in groove*

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Figure 3