



## GM 6T40 SERIES TRANSMISSIONS

### NO THIRD, FIFTH OR REVERSE GEARS

#### COMPLAINT:

- (1) A vehicle equipped with a 6T30/40/45/50 transmission may have a complaint of no third, fifth of reverse gears. Upon disassembly of the transmission, the 3-5-Reverse retaining ring is broken into pieces (figure 1).
- (2) The transmission may have also had a complaint of harsh shifts with a P0776 for “Pressure Control Solenoid B Stuck OFF”. The 3-5-Reverse “waved” plate was found to be broken (figure 1).

#### CAUSE:

- (1) The 3-5-R/4-5-6 clutch housing has a 3-5-R retaining ring groove that is not machined deep enough. The 3-5-R retaining ring is not made thick enough. The 3-5-R backing plate needed a higher step for better retaining ring retention (figure 2).
- (2) The 3-5-Reverse clutch apply piston with the three (3) notch early design did not contact the wave plate evenly during clutch application which would eventually cause it to break (figure 2).

#### CORRECTION:

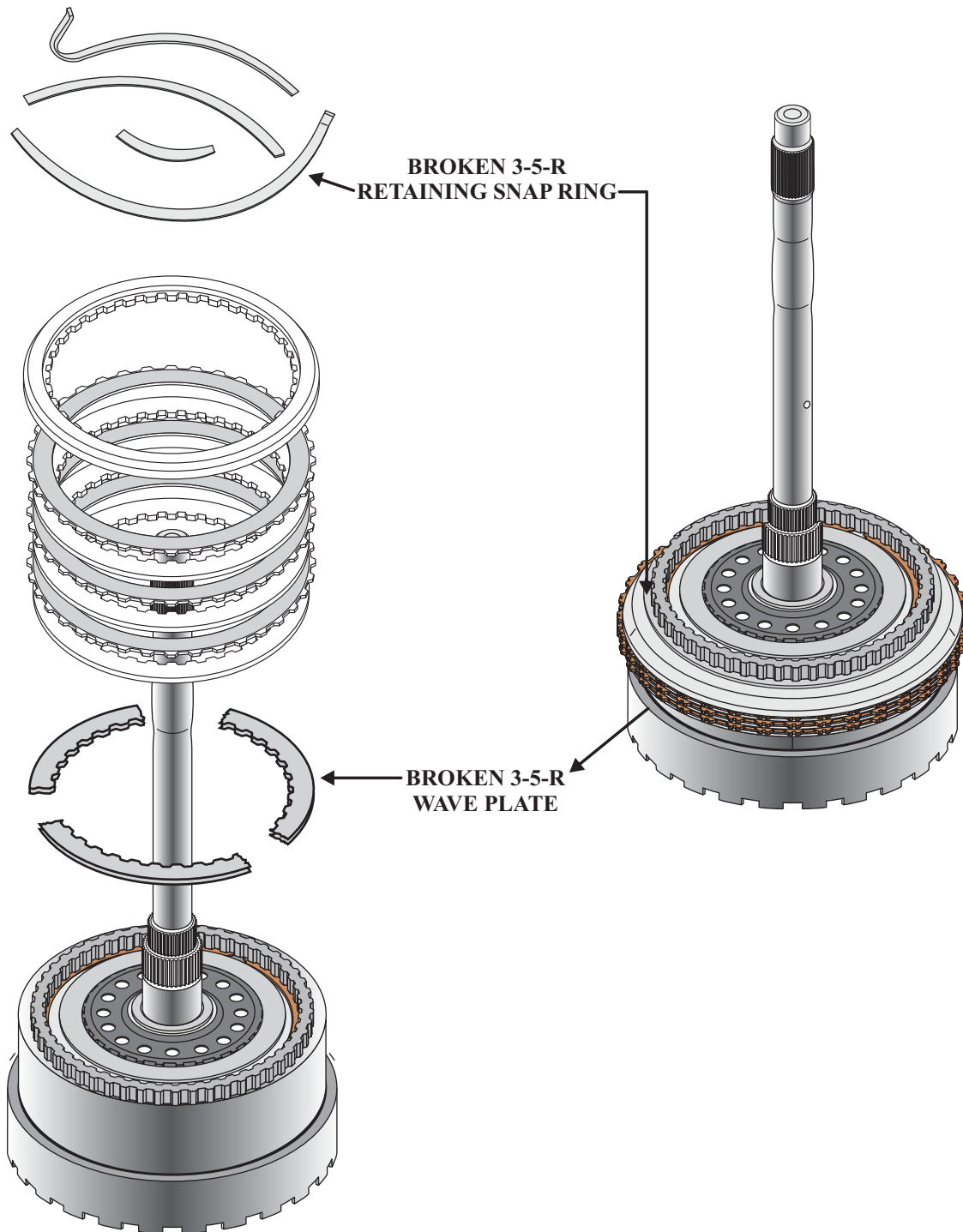
- (1) Replace 3-5-R/4-5-6 clutch housing, retaining snap ring and backing plate with the updated second design level parts which comes in a kit (figure 3).
- (2) Replace the 3-5-Reverse clutch apply piston that has no notches and the updated 3-5-Reverse waved plate that is stress relieved; it is darker in color than the first design waved plate (figure 3). Updated parts are shown in figures 4 and 5.

#### SERVICE INFORMATION:

*Updated 3-5-Reverse Clutch Housing, Backing Plate & Retaining Snap Ring Kit.....24255922*  
*Updated 3-5-Reverse Clutch Apply Piston (No Notches).....24259061*  
*Updated 3-5-Reverse Waved Plate.....24230757*

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### 3-5-REVERSE/4-5-6 CLUTCH HOUSING



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Figure 1

## GM 6T40 SERIES TRANSMISSIONS NO THIRD, FIFTH OR REVERSE GEARS

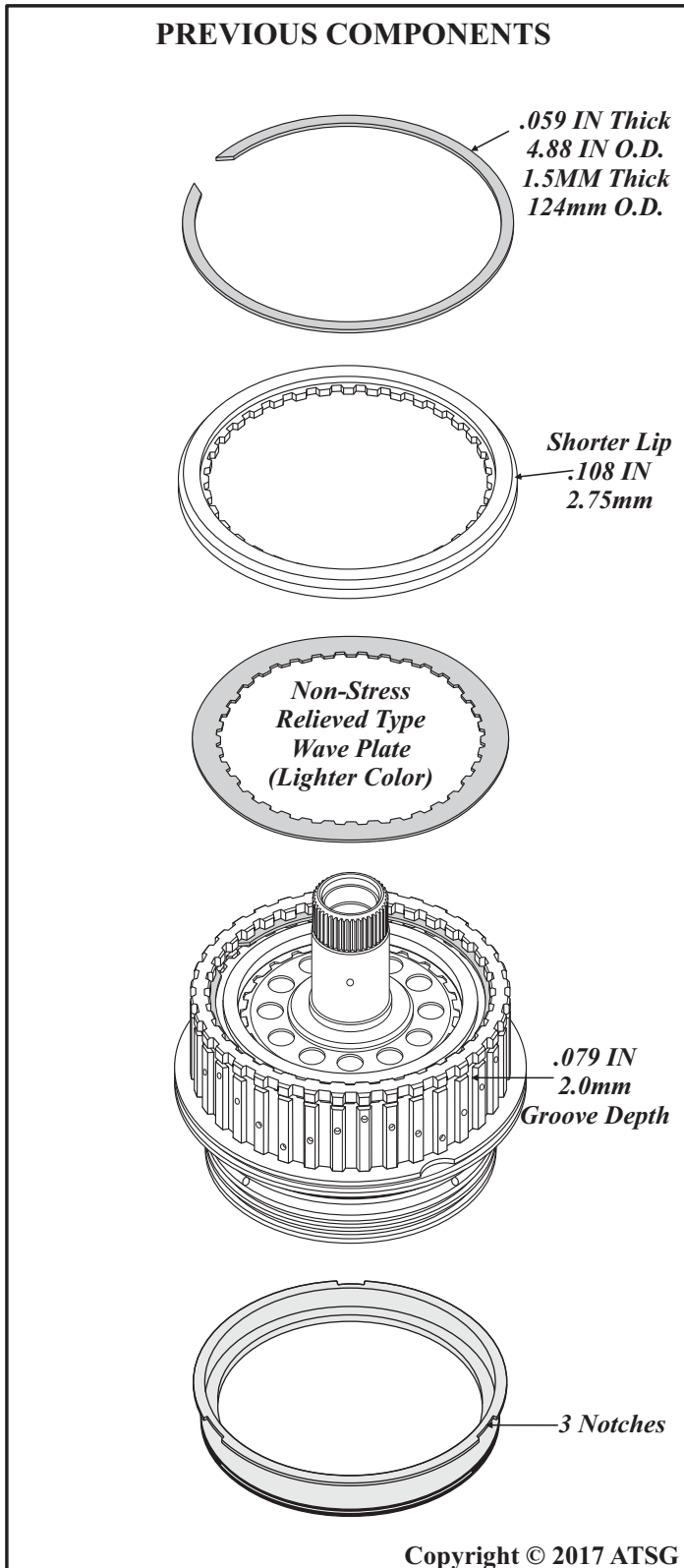


Figure 2

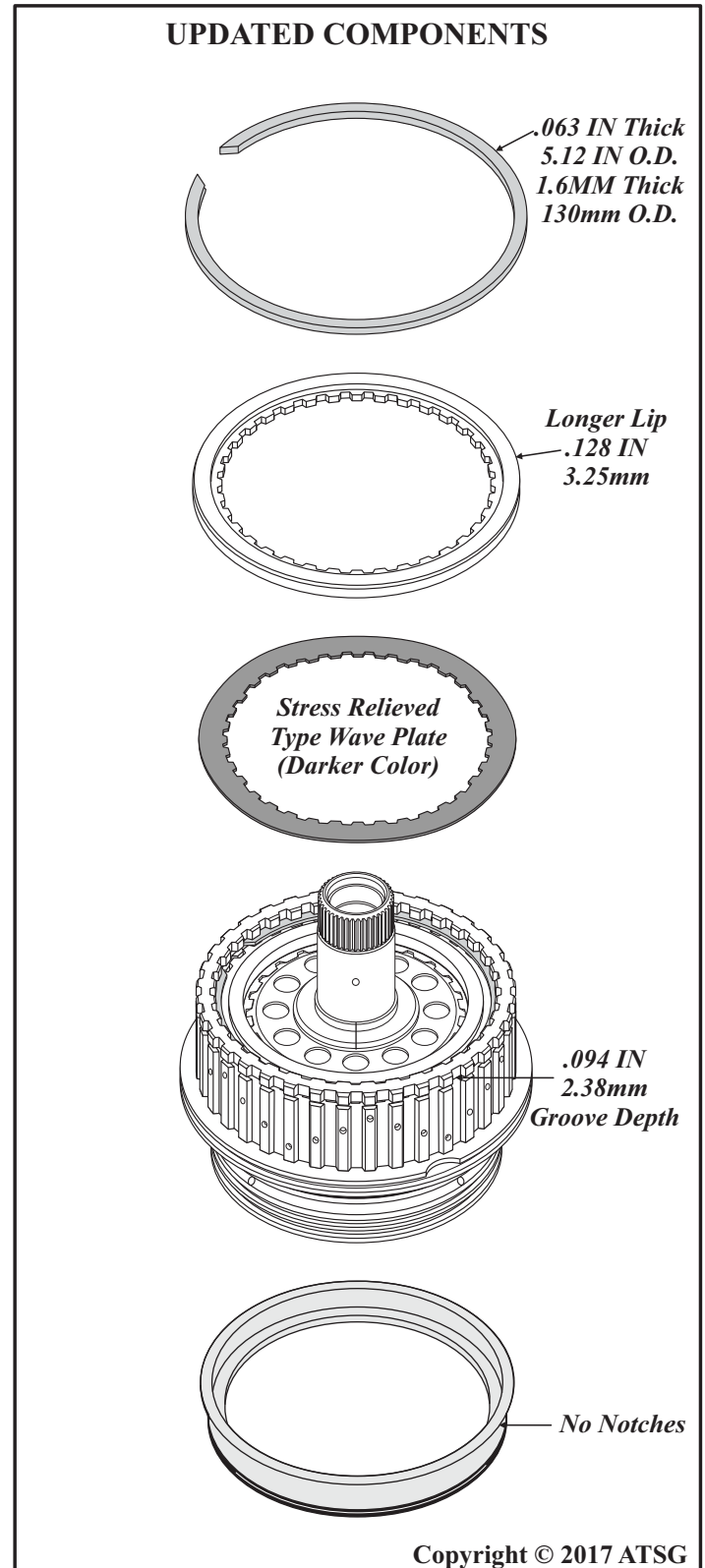
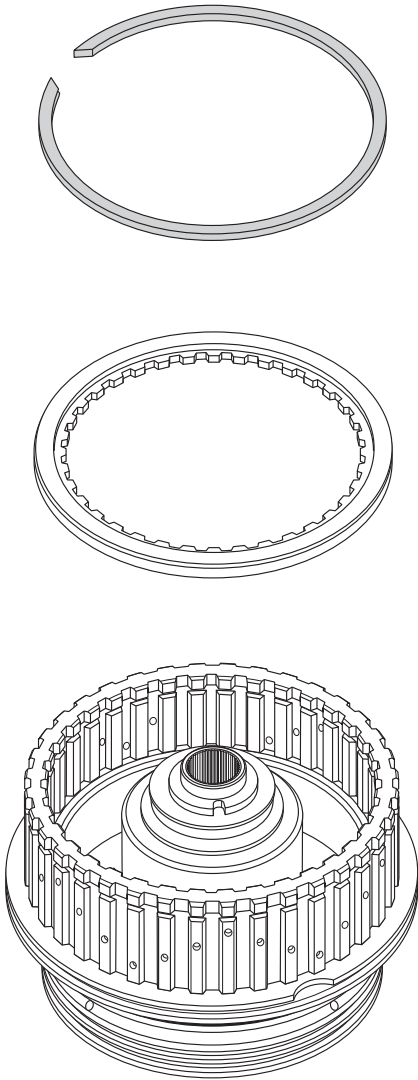


Figure 3

## GM 6T40 SERIES TRANSMISSIONS NO THIRD, FIFTH OR REVERSE GEARS

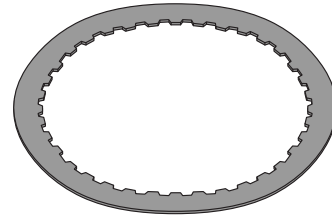
### UPDATED 3-5-REVERSE DRUM KIT 24255922



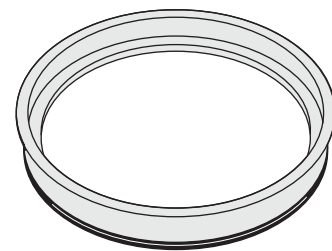
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Figure 4

### UPDATED 3-5-REVERSE WAVED PLATE 24230757



### UPDATED 3-5-REVERSE CLUTCH APPLY PISTON 24259061



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Figure 5