



Technical Service Information

MAZDA RC4A-EL CLIP AND TENSION SPRING LOCATIONS

COMPLAINT: During the rebuilding process of an RC4A-EL transmission there arises questions as to the proper placement of 1 clip and 3 tension style springs that are not seen in any other transmission.

CAUSE: The RC4A-EL transmission also known as the JR405E is a transmission used here in the States in the Mazda RX8 vehicle. It has a much broader use overseas. Since this is not a transmission that frequents the bench on a regular basis here, when it does, ATSG's technical hotline usually receives a call for help on placing these three unusual type tension springs. This question is also accompanied with "While I have you on the phone, there is a S shape clip as well that I am not sure about. Can you tell me where that goes also?"

CORRECTION: Figure 1 shows this S style clip as being the anti-rattle clip for the Low/Reverse Clutch stack up and its basic location. Figure 2 explains and illustrates how this Low/Reverse anti-rattle clip is placed into case after the clutch assembly and selective backing plate is installed. Once the clip is in place, the retaining snap ring is installed covering the clip to keep it securely in place (Figure 3).

The 3 tension type springs are located in the case to center the 2-4 steel plate stack up to insulate them from making noise through the case (figure 4).

They are placed into the case at the 1, 4 and 9 o'clock positions in the grooves where the steel plates align (Figure 5). These positions can be easily located as the basic spring design is embossed into the case identifying their location as seen in Figure 5.

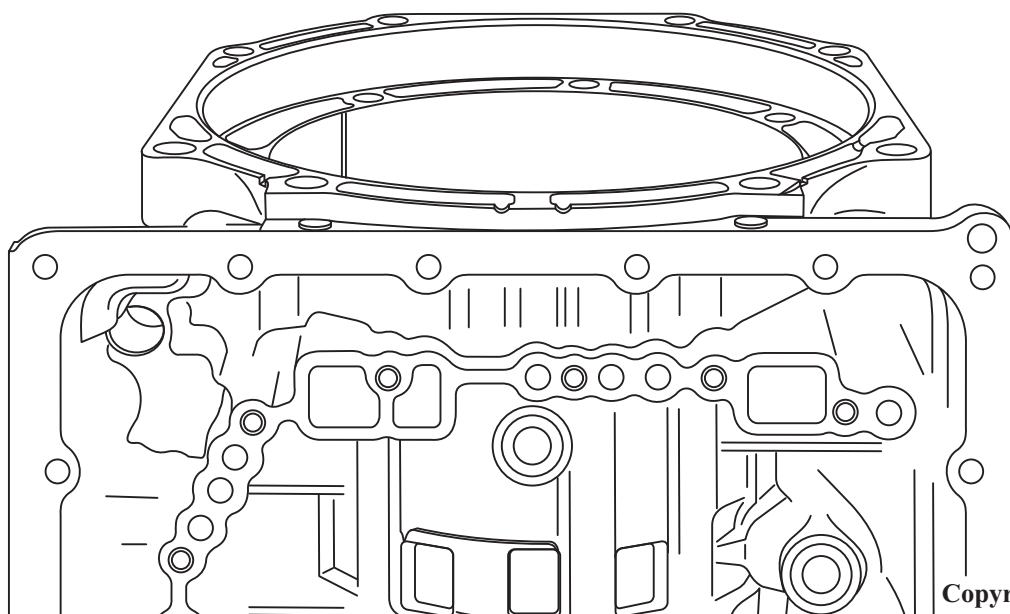
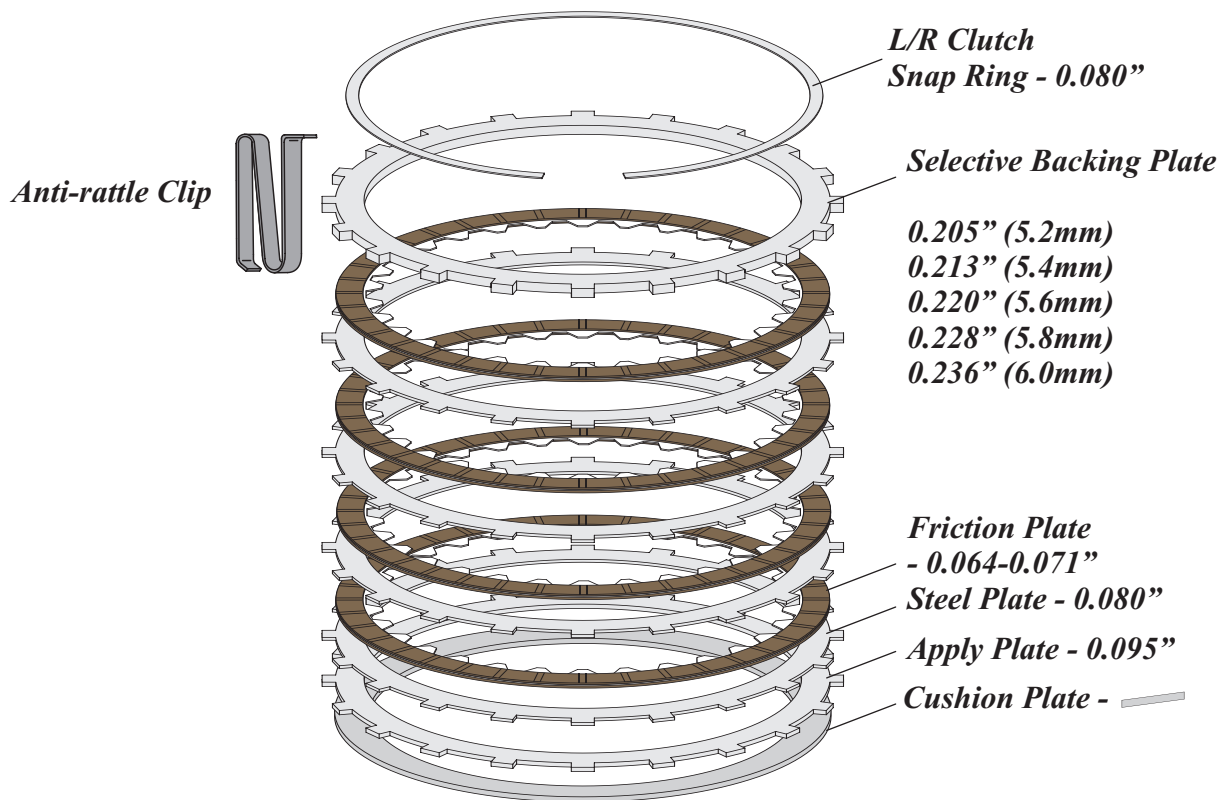
It is easiest to first place the assembly into the case then slide these 3 tension springs into place with the open side against the case. Then install the last friction plate, selective backing plate and cushion plate (Figure 6).

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Low/Reverse Brake Assembly
Clutch Clearance Specification
0.028" - 0.043" (0.7 - 1.1 mm)



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Figure 1

MAZDA RC4A-EL CLIP AND TENSION SPRING LOCATIONS

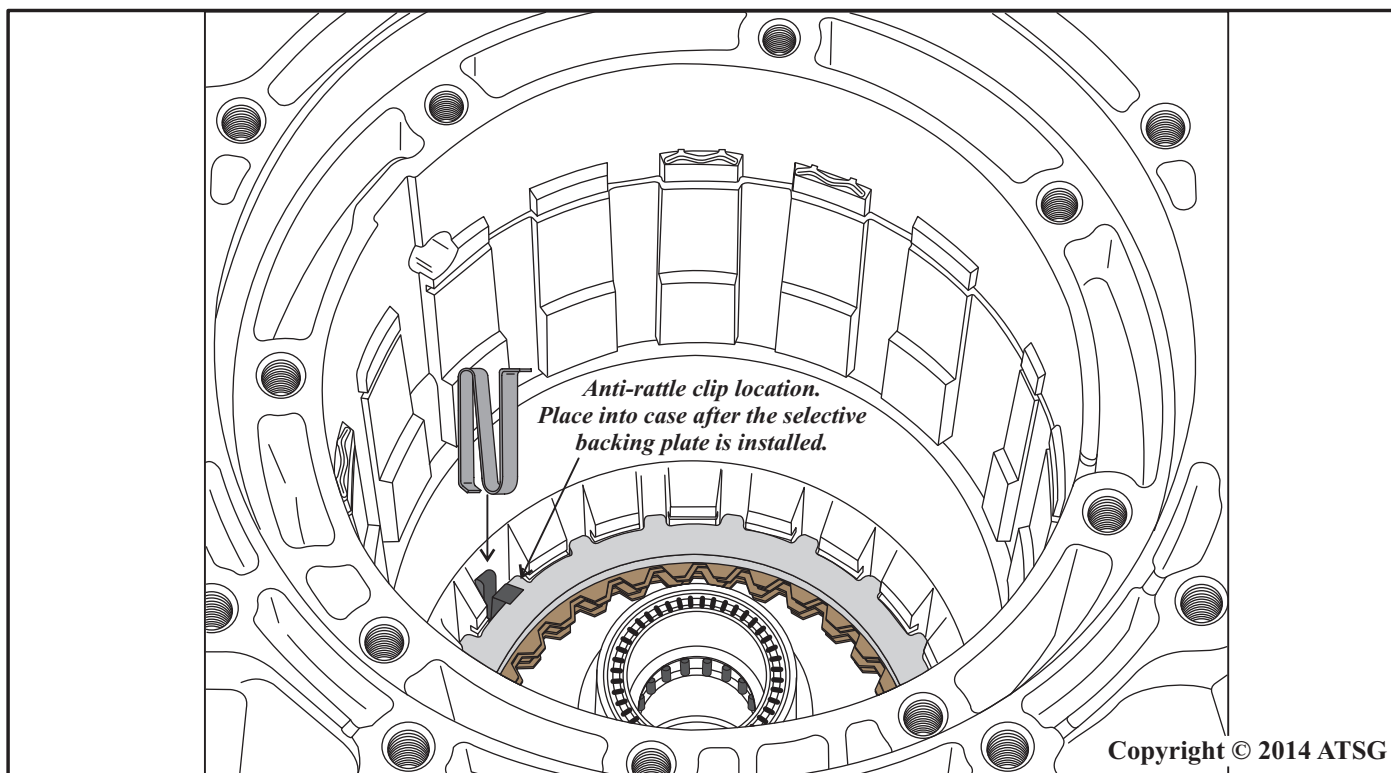


Figure 2

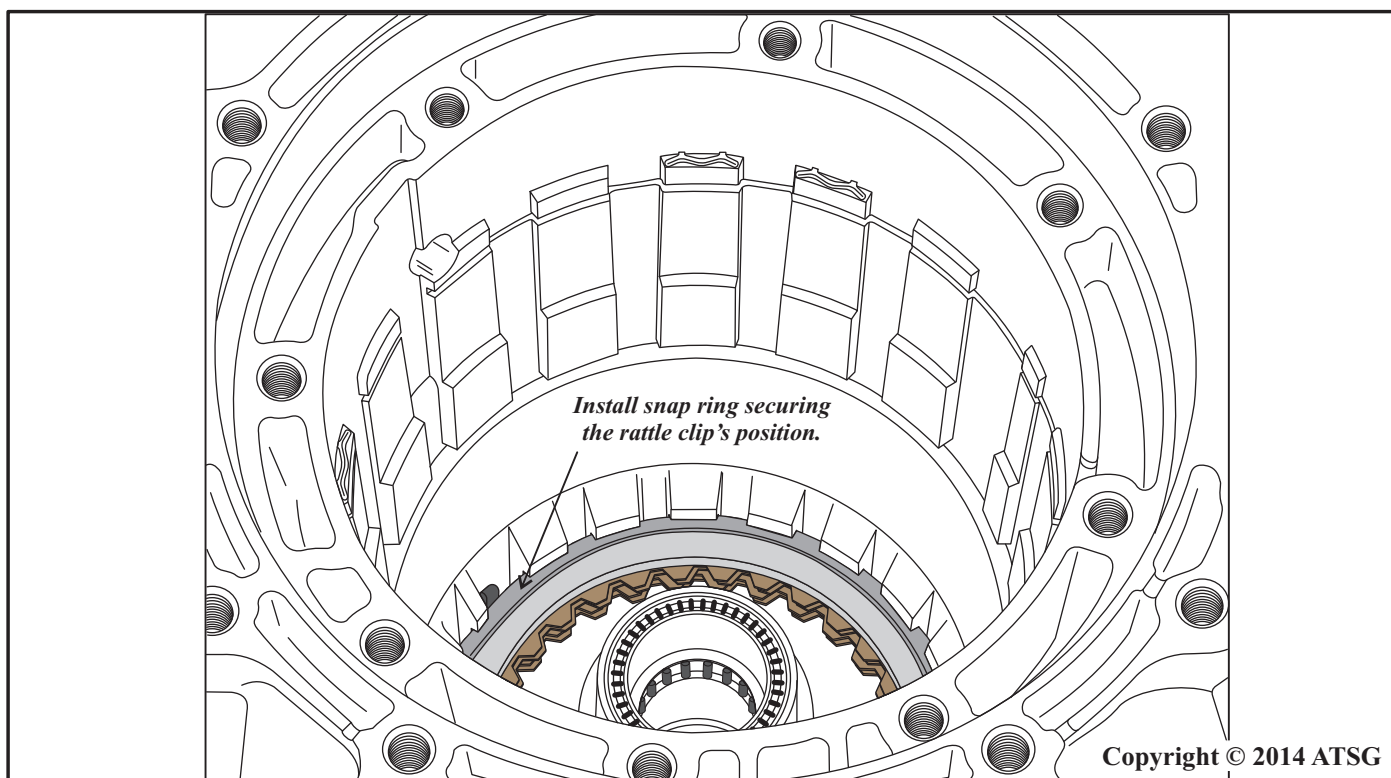


Figure 3

MAZDA RC4A-EL CLIP AND TENSION SPRING LOCATIONS

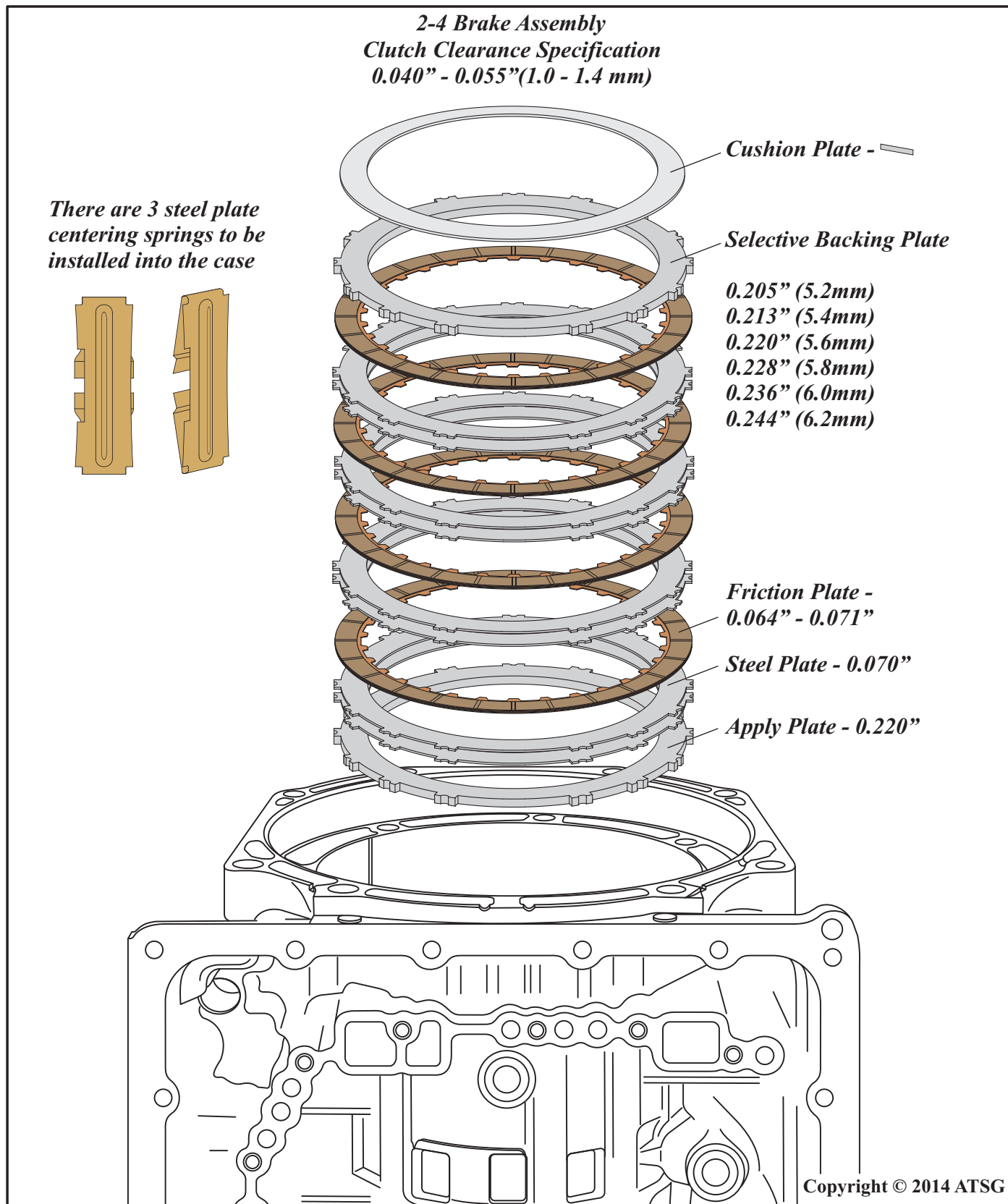


Figure 4

MAZDA RC4A-EL CLIP AND TENSION SPRING LOCATIONS

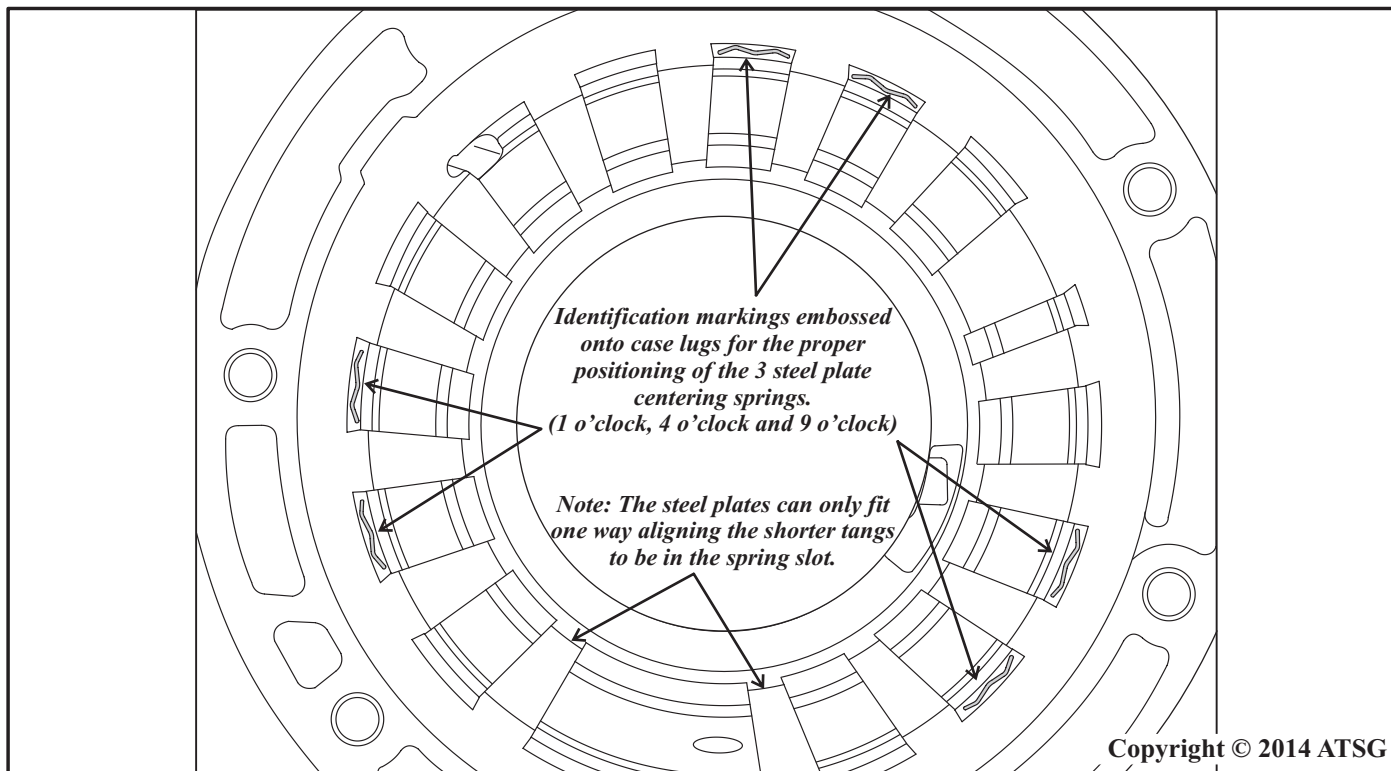


Figure 5

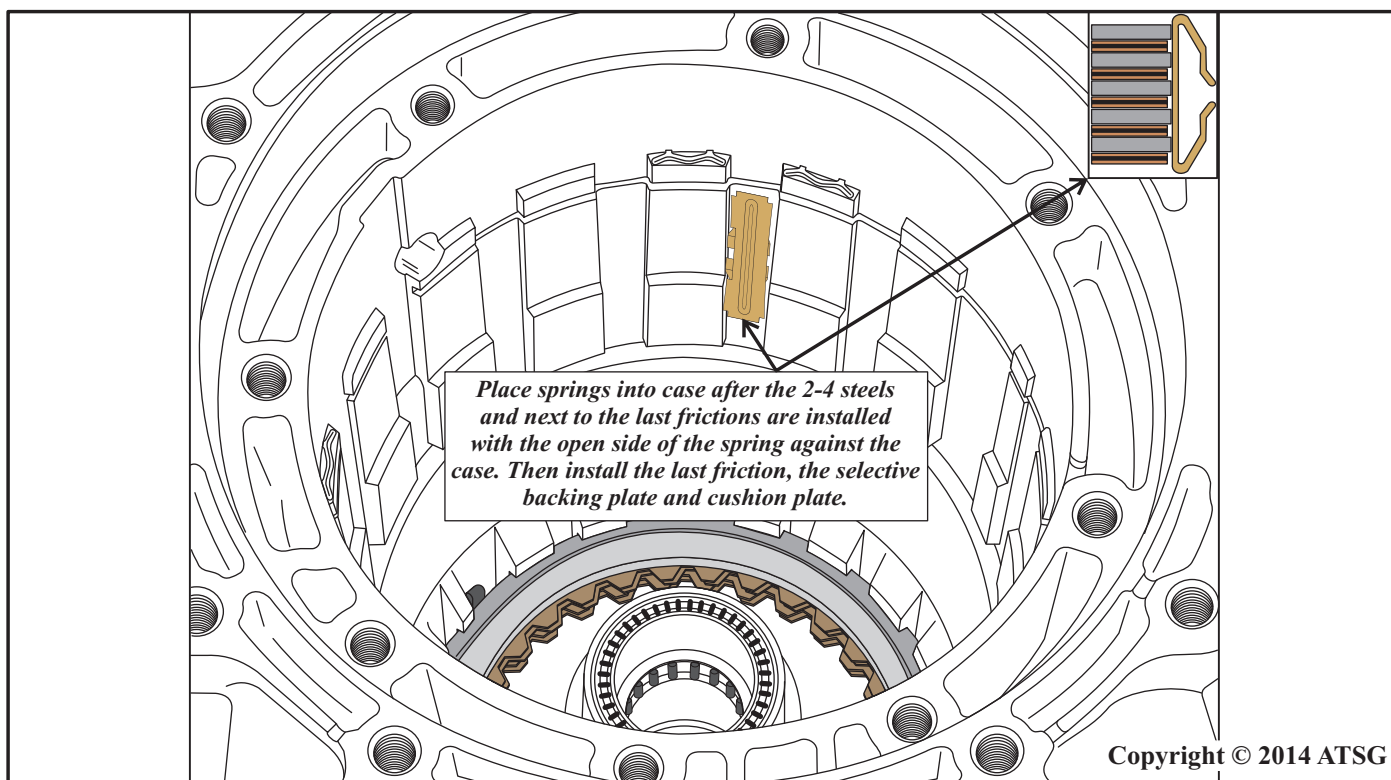


Figure 6