



# Technical Service Information

## **DODGE/JEEP 42/46RE** **NO MOVEMENT**

**COMPLAINT:** A Dodge or Jeep vehicle equipped with the 42/46RE transmission has a no movement complaint. When the fluid pan was removed for inspection, a small amount of metal could be seen. The fluid was clean and did not have a burnt odor. The transmission was disassembled for inspection but a cursory look revealed nothing definite.

**CAUSE:** Upon closer inspection the internal rear ring gear hub splines that mate with the output shaft splines were stripped as seen in figure 1.

**CORRECTION:** A used replacement rear ring gear was installed and the transmission was installed back into the vehicle only to have the same no move condition. The discarded ring gear was retrieved only to confirm that the stripped ring gear did not make its way back into the transmission. The transmission was removed once again and the technician went straight to the rear ring gear. At first glance the ring gear looked good but further inspection revealed the ring gear hub has stripped the hub to ring gear teeth and was firmly jammed into the ring gear. The clue was to look at the spot welds, notice how the welds on the ring gear do not match the location of the welds on the hub as seen in figure 2. A hammer blow to the ring gear hub exposed the problem as seen in figure 3.

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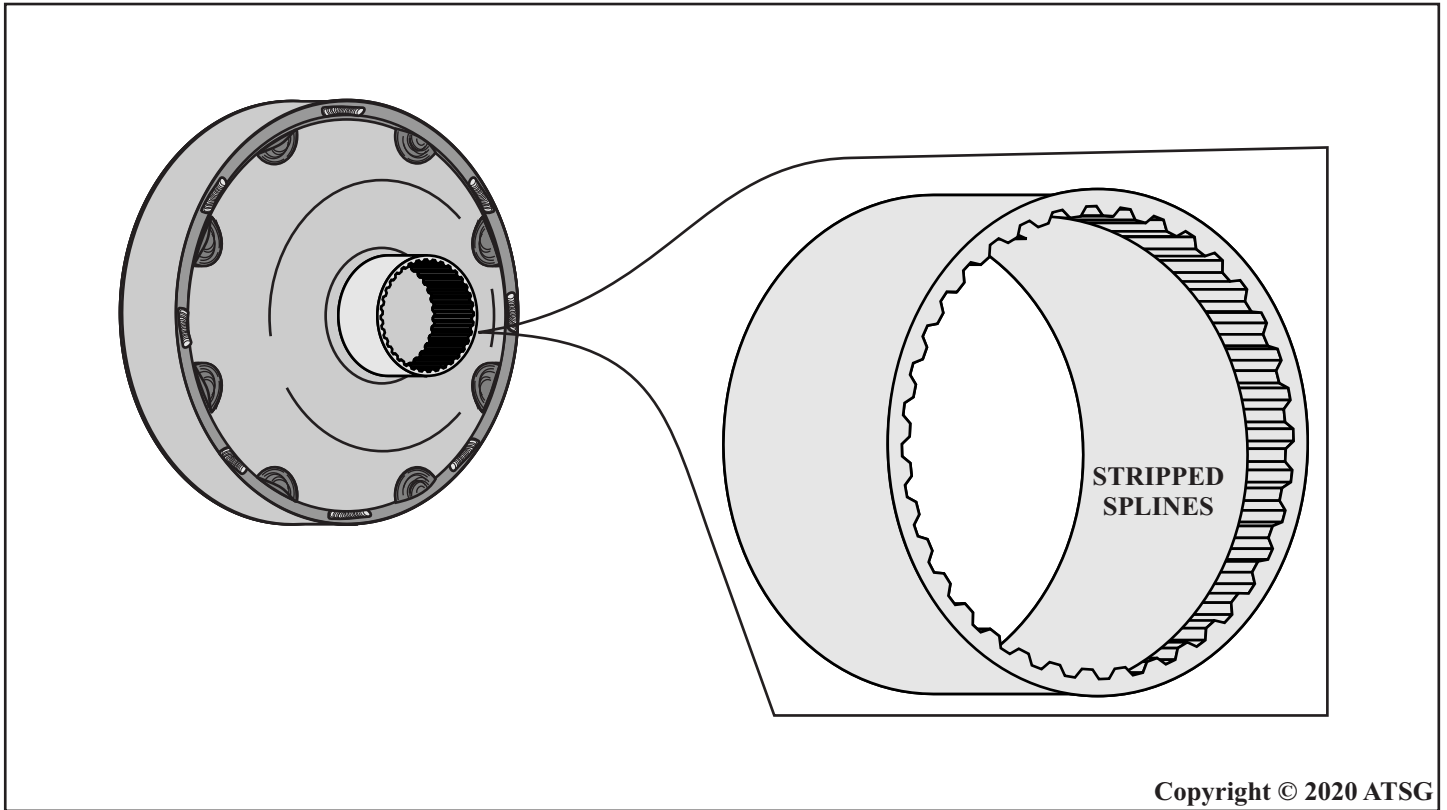


Figure 1

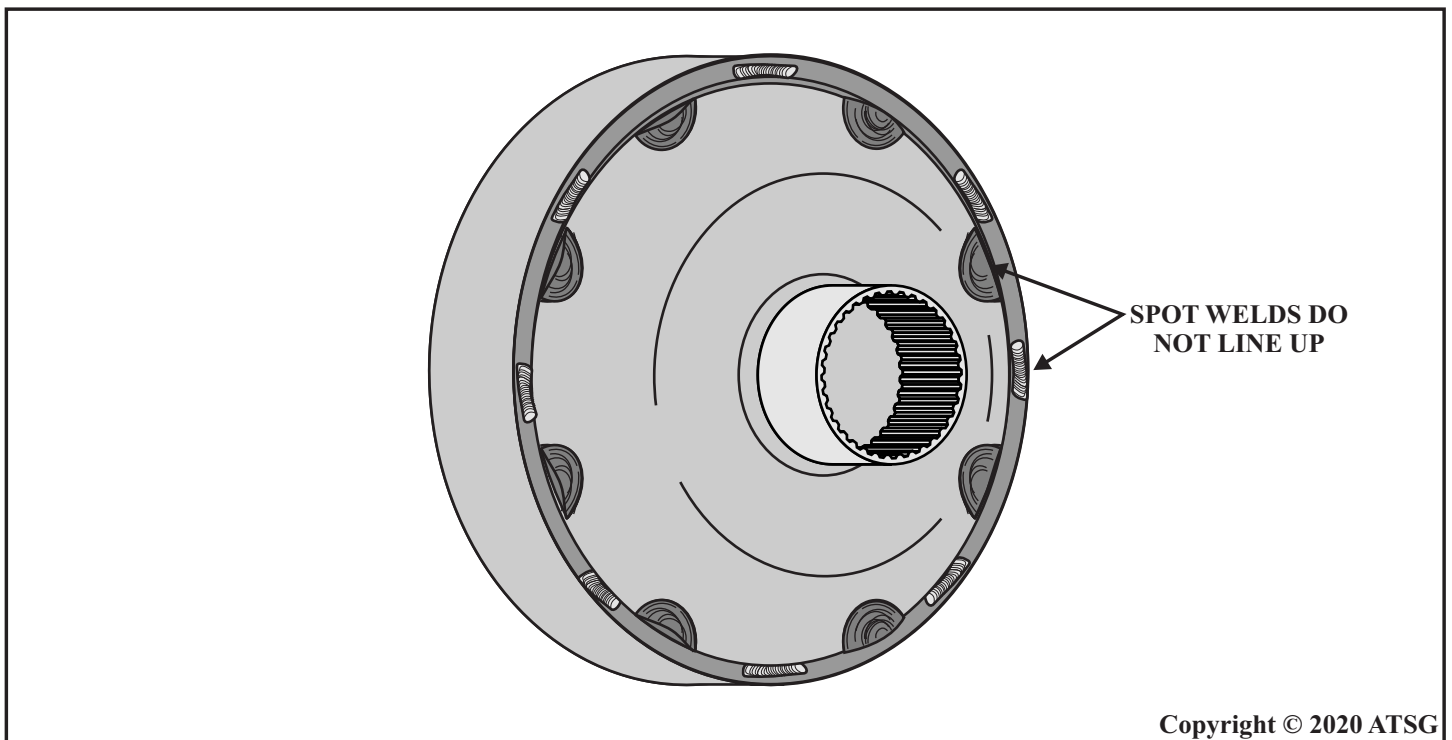
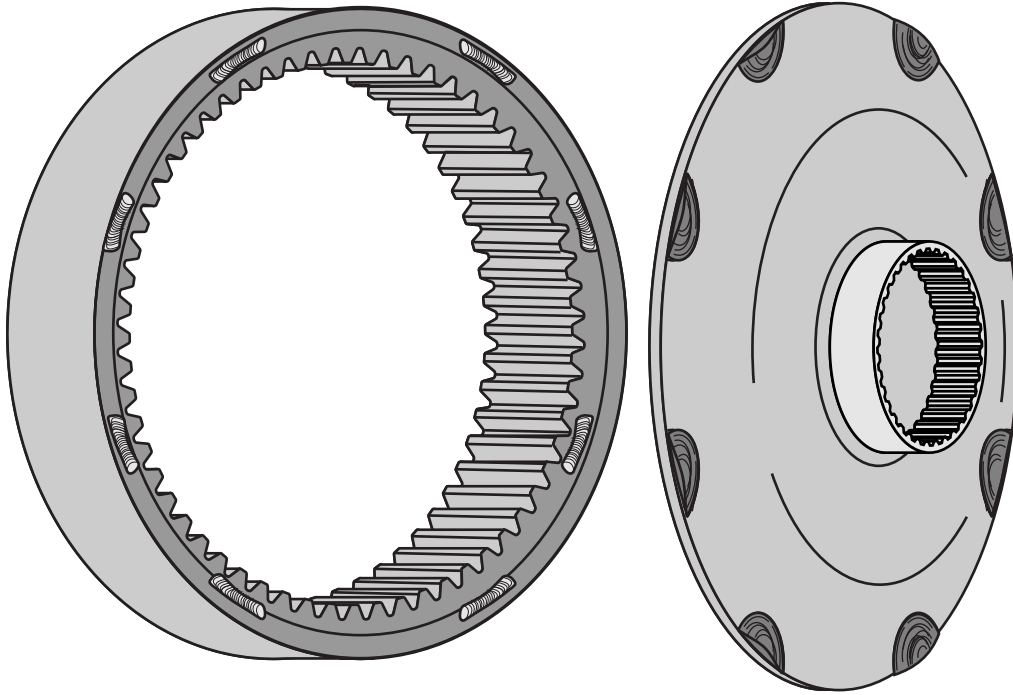


Figure 2

## DODGE/JEEP 42/46RE NO MOVEMENT

### RING GEAR AND HUB SEPARATED



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Figure 3