



# Technical Service Information

## GM 6L50/80/90 VALVE BODY IDENTIFICATION

**COMPLAINT:** There is confusion when trying to identify a 6L50 valve body from a 6L80 or 6L90 valve body. The incorrect valve body usage could result in a no forward or reverse condition.

**CAUSE:** There are subtle differences between each.

**CORRECTION (1):** The valve body to case to center support seals for the 6L50 are 5/16" (8mm) taller than the 6L80/90 seals. The 6L50 seals can also be identified by the metal tabs that extend from the ends of the seal assembly, (Refer to Figure 1).

**(2):** The 6L50 valve body can be identified by the small posts that protrude from the lower valve body casting. The "B" post is ground down, this identifies this valve body as a 6L50 as shown in Figure 2. One of the more subtle differences are the position of the center support oil transfer holes. They are positioned lower down on the lower valve body casting, also shown in Figure 2, than the 6L80/90 oil transfer hole location. Another subtle difference is the speed sensor mounting bosses, the 6L50 valve body has taller speed sensor mounting bosses also shown in Figure 2.

**(3):** The 6L80 valve body can be identified by the small posts that protrude from the lower valve body casting. The "C" post is ground down, this identifies this valve body as a 6L80 as shown in Figure 3. The center support oil transfer holes are positioned 5" from the bottom edge of the valve body casting, (See Figure 3), which places them in a different position than the oil transfer holes on the 6L50 valve body. The speed sensor mounting bosses are shorter than the bosses on the 6L50 valve body also shown in Figure 3.

**(4):** The 6L90 valve body can be identified by the small posts that protrude from the lower valve body casting. The "D" post is ground down, this identifies this valve body as a 6L90 as shown in Figure 4. The center support oil transfer holes are positioned 4½" from the bottom edge of the valve body casting, (See Figure 4), which places them in a different position than the oil transfer holes on the 6L50 and 6L80 valve bodies. The speed sensor mounting boss height is the same as the 6L80 bosses.

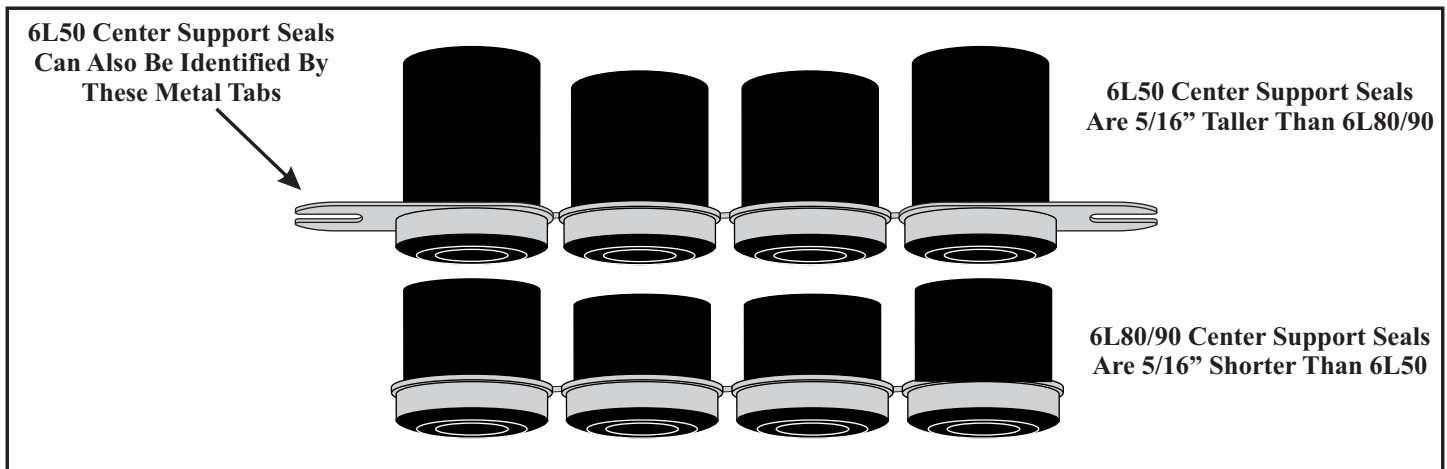


Figure 1

## GM 6L50 VALVE BODY IDENTIFICATION

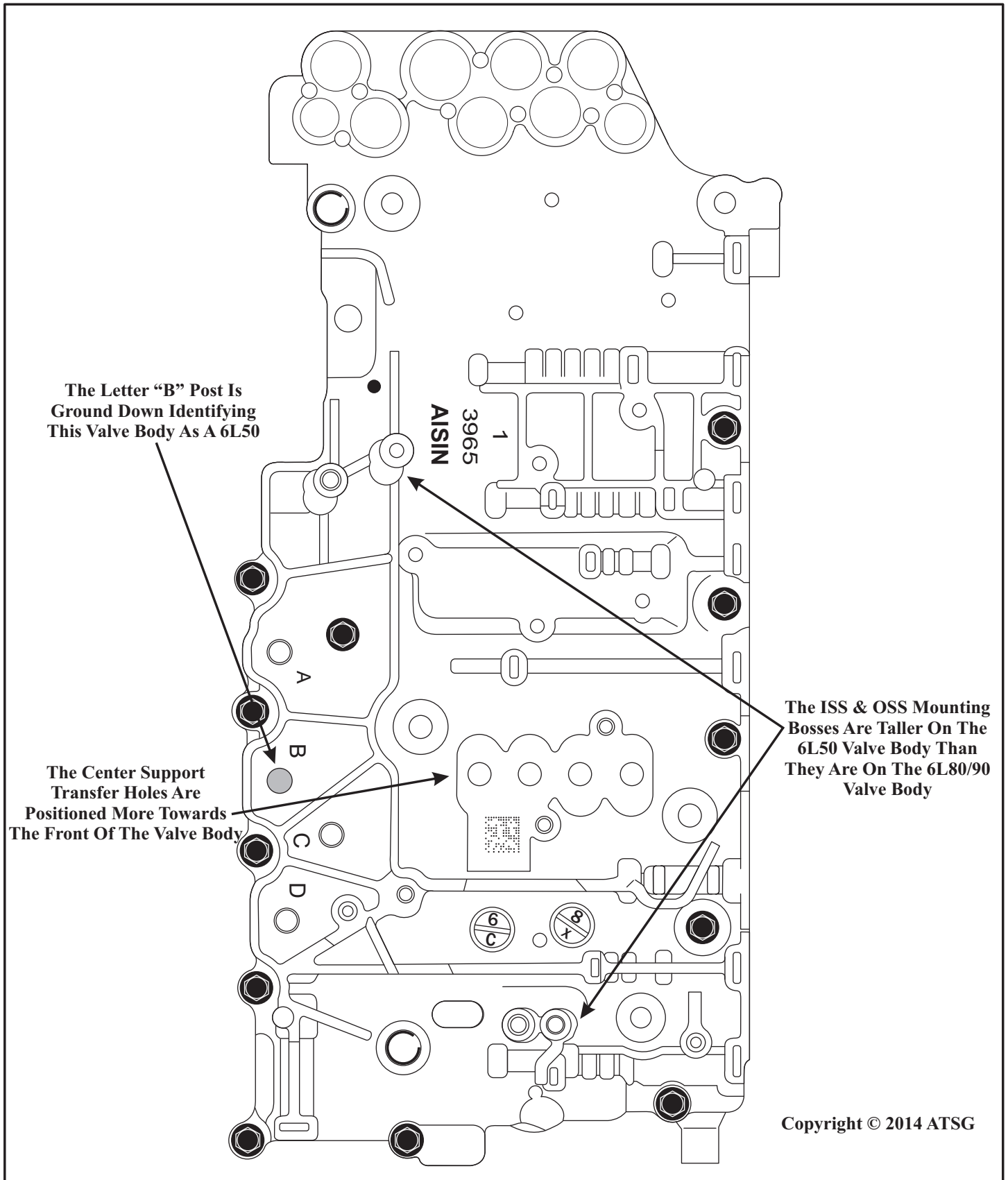
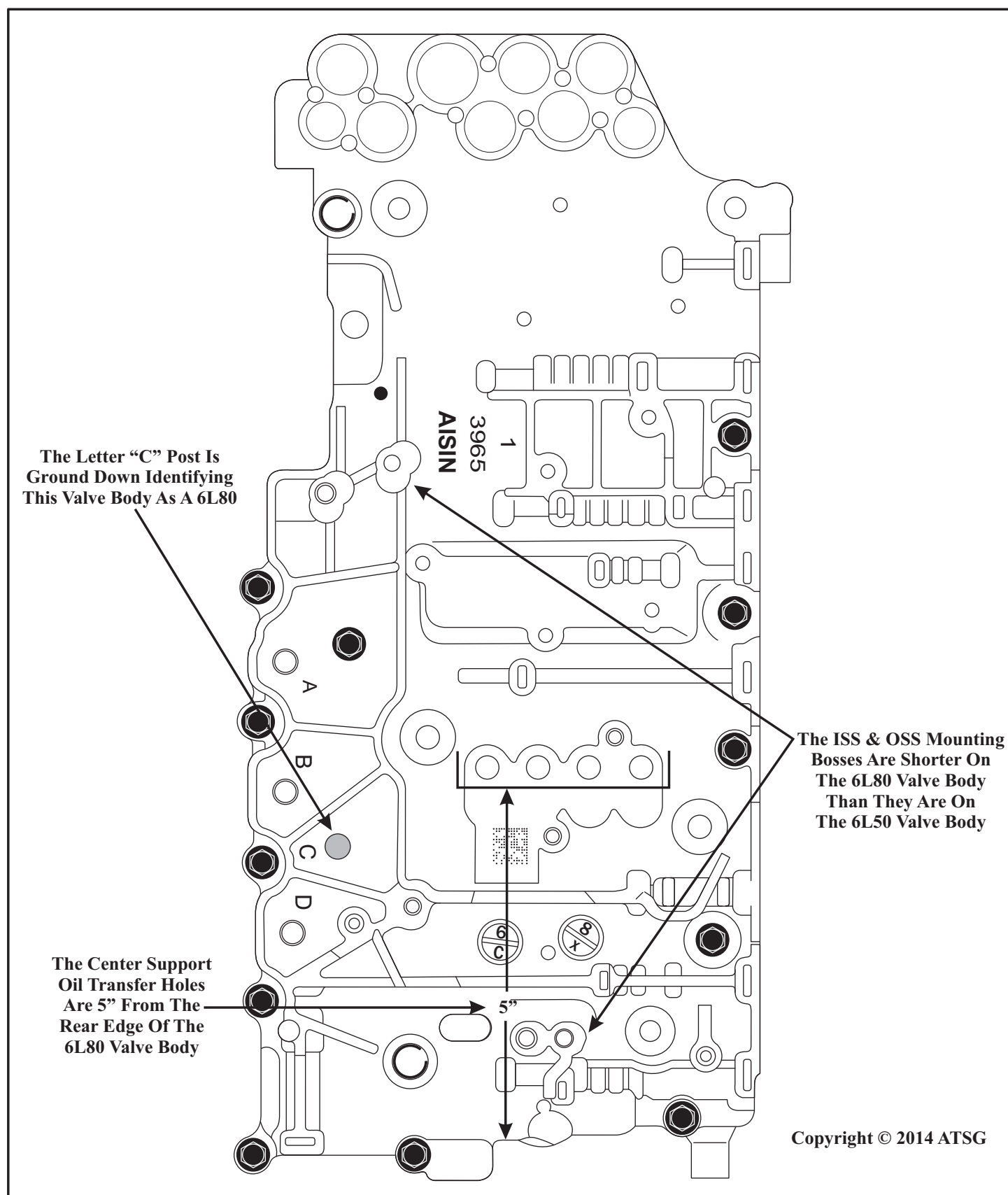


Figure 2

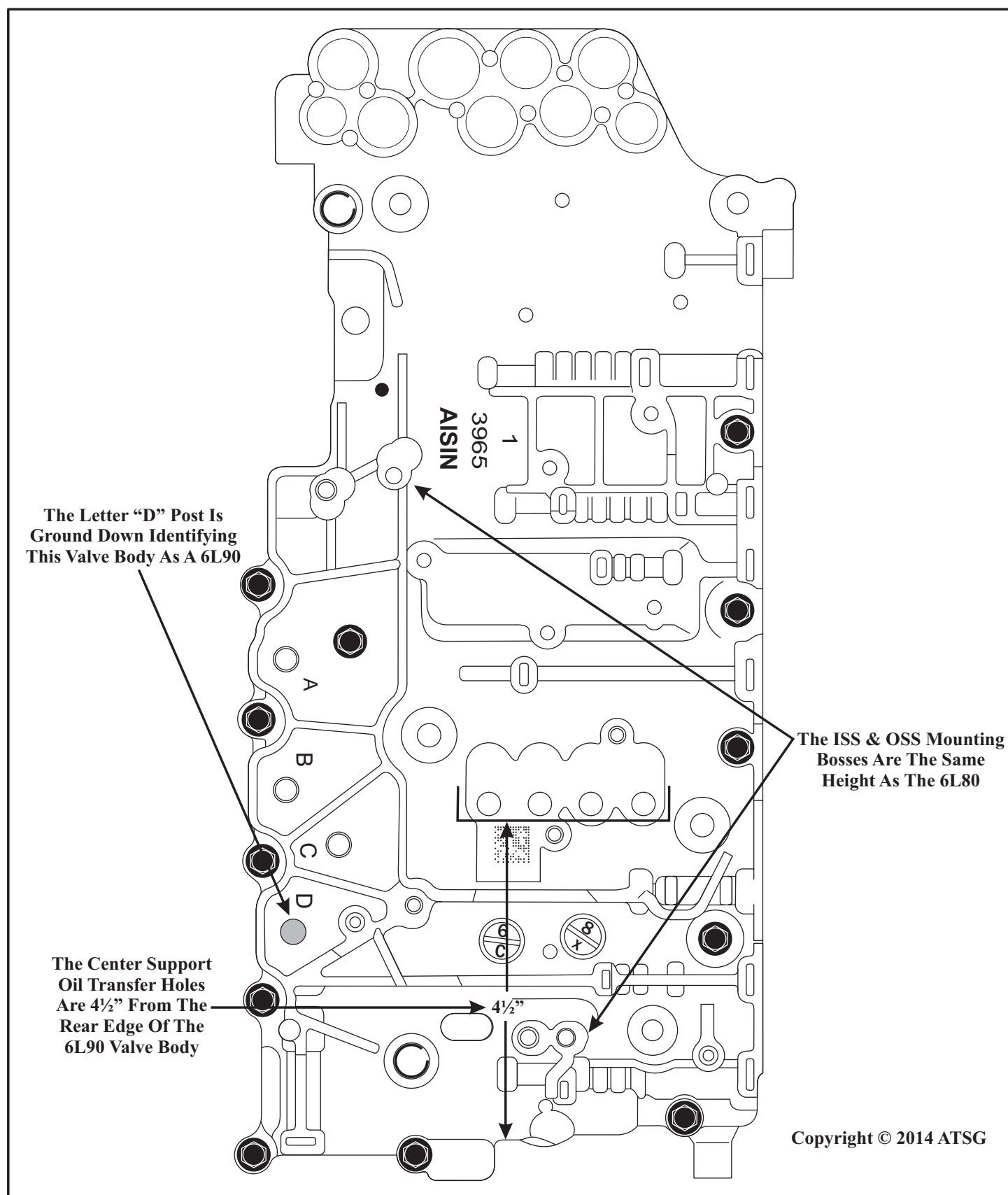
## GM 6L80 VALVE BODY IDENTIFICATION



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Figure 3

## GM 6L90 VALVE BODY IDENTIFICATION



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Figure 4