

VOLVO 4T65EV-GT GEARTRONIC SYSTEM NO MOVEMENT IN D3 OR NO ENGINE BRAKING

COMPLAINT#1: No movement in the D3, D2 or Manual Low position or no engine braking in the D2 or Manual Low position.

COMPLAINT #2: No engine braking in "Tip Up", "Tip Down" in first or second gear.

A Volvo Geartronic spacer plate was installed on a GM Non-Geartronic 4T65E. CAUSE #1:

CAUSE #2: A Non-Geartronic spacer plate was installed with Geartronic components.

CORRECTION: A vehicle with a Geartronic system can be identified by the type of shifter it is equipped with such as the one seen in Figure 1. Geartronic and Non-Geartronic components are not interchangeable. Spacer plate notch identification can be seen in Figure 2. 1 notch represents Non-Geartronic while 2 notches indicate Geartronic operation. Shifters that have D4, D3, D2 and Manual Low positions are a Non-Geartronic system.

> The spacer plate shown in Figure 3 is the Volvo Non-Geartronic spacer plate which is similar to the GM spacer plate. Note that the manual low and manual second circuits are open and therefore functional while circuits 38/35 and 35/36 are closed and are therefore non-functional.

> The spacer plate shown in Figure 4 is the Volvo Geartronic spacer plate. Note that the D2 and Manual Low circuits are closed because the D3 position is the lowest position obtainable in a Geartronic system. Also note the circuits 38/35 and 35/36 are open and therefore are functional which provides "Tip Up" and "Tip Down" engine braking into first and second gear while the shifter remains in the D3 position. This is accomplished by allowing the 3rd clutch to be on in first and the manual 2-1 band to be on in first and second gear.

> It must also be noted the the valve body and channel plate are cast differently to allow the respective spacer plate to function properly.

> The hydraulic schematics shown in Figures 5, 6 and 7 illustrate Geartronic operation in first, second and third gear.

SERVICE INFORMATION:

Volvo Non-Geartronic Bonded Spacer Plate......30651257 Volvo Geartronic Bonded Spacer Plate......30651253

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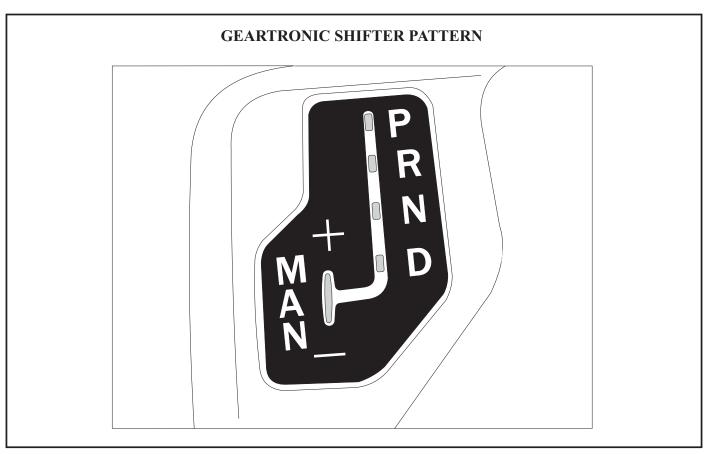


Figure 1

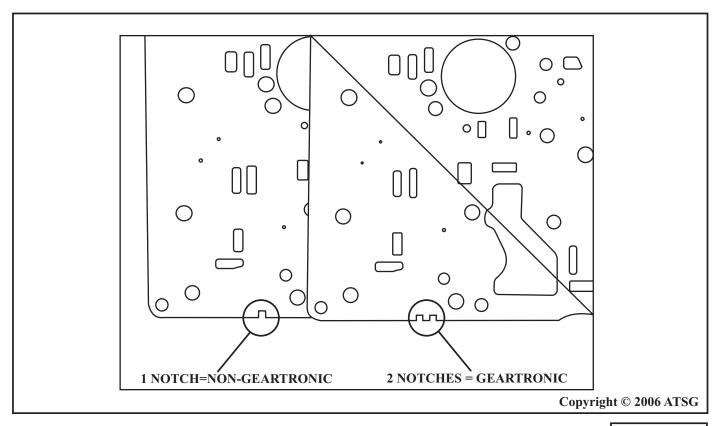


Figure 2
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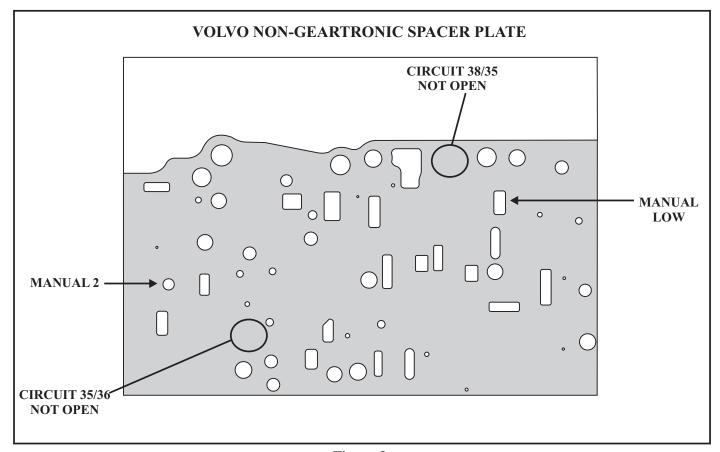


Figure 3

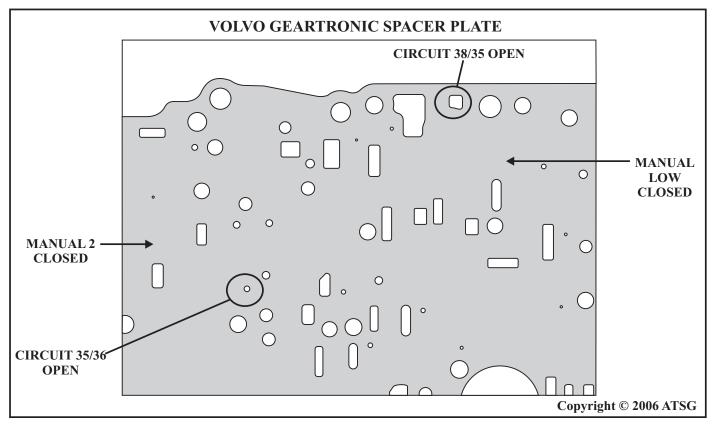


Figure 4
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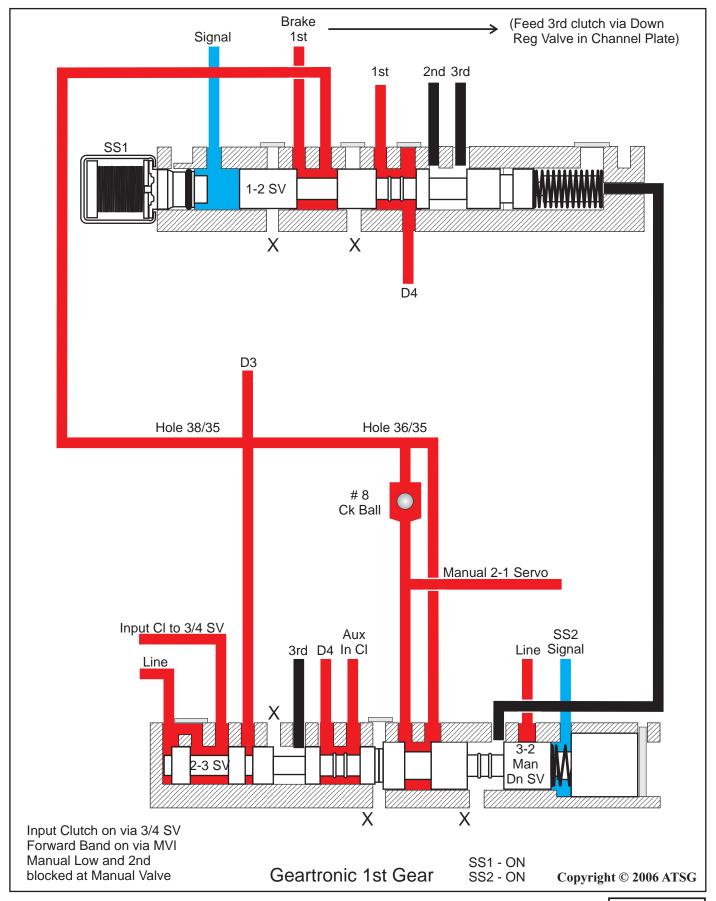


Figure 5
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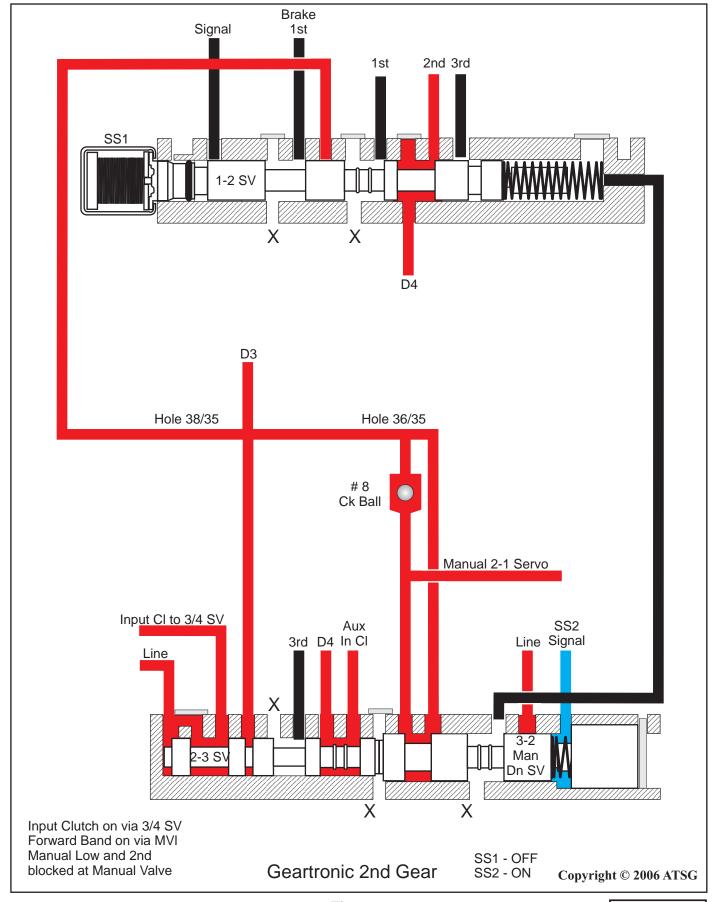


Figure 6
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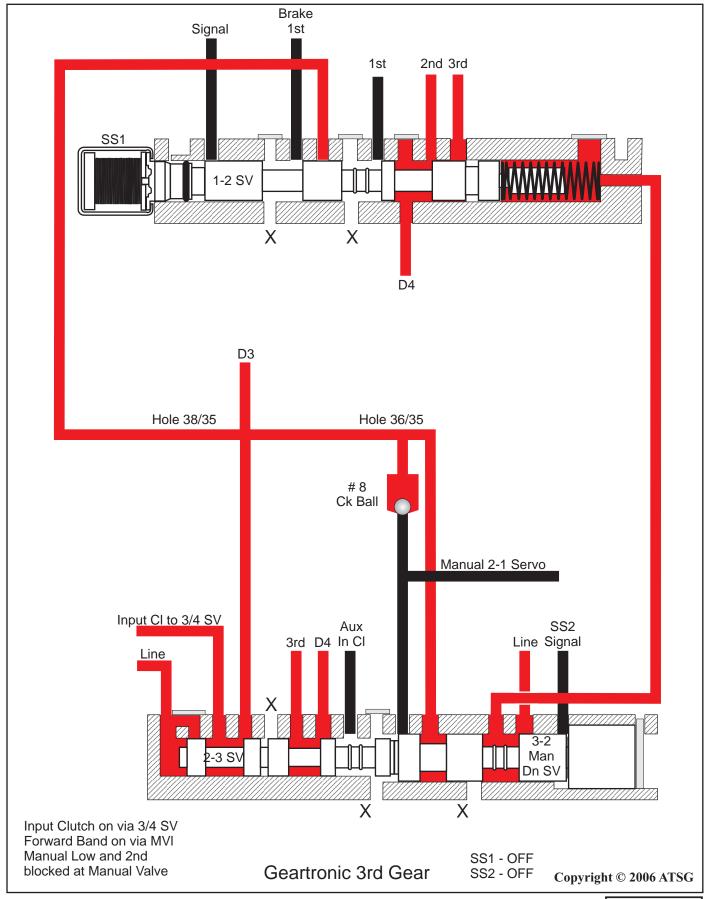


Figure 7
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