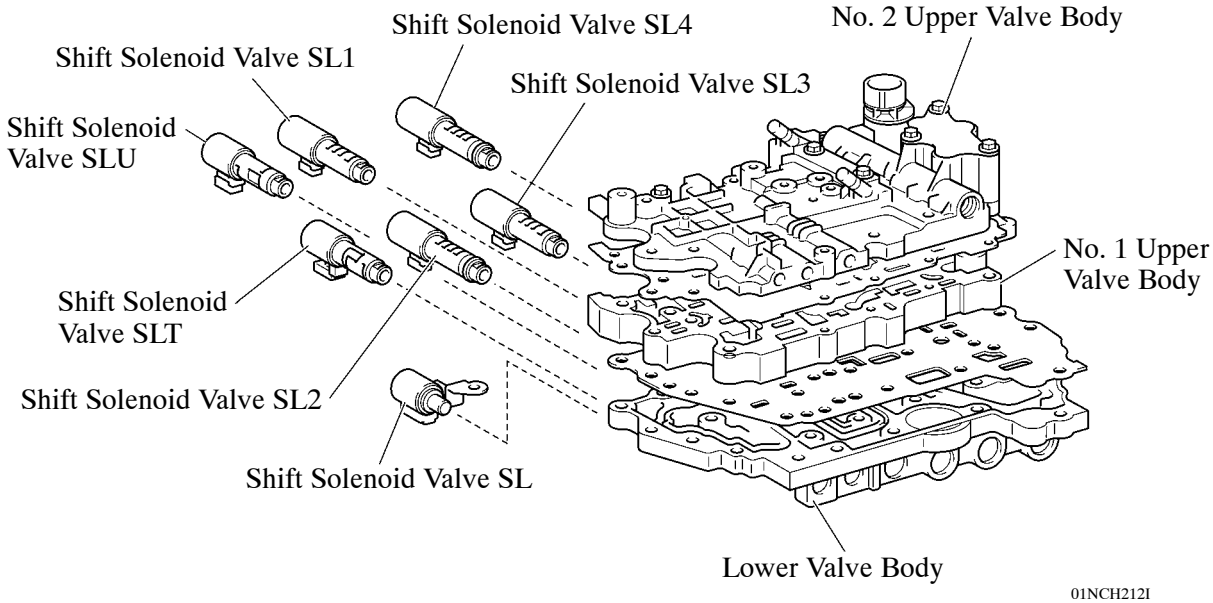
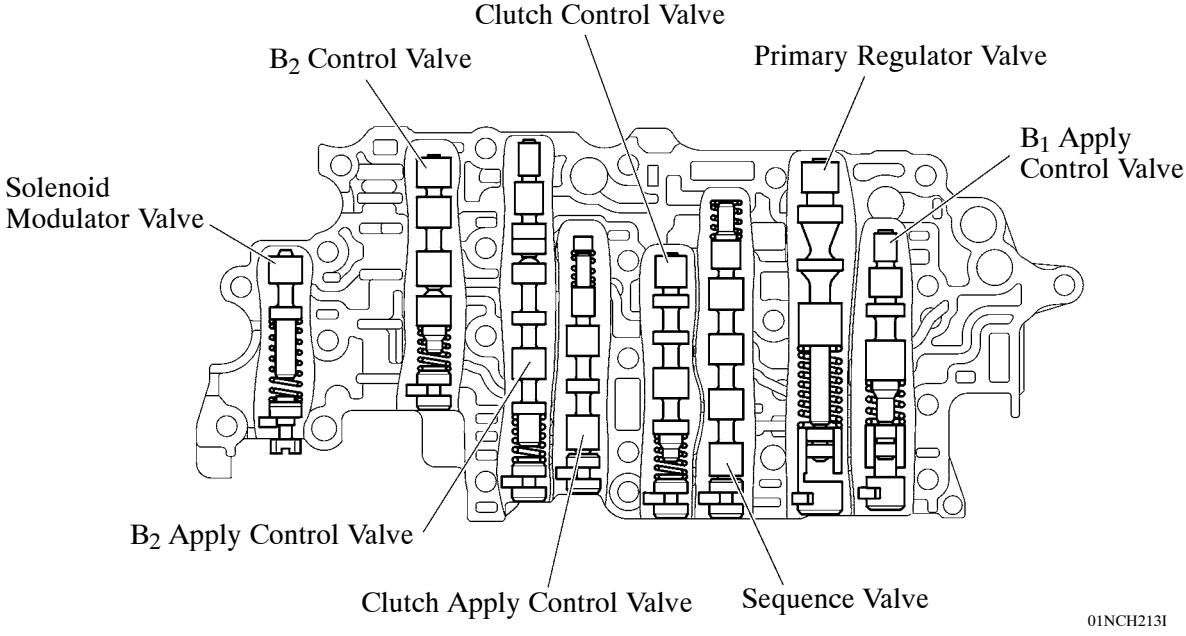
■VALVE BODY UNIT

1. General

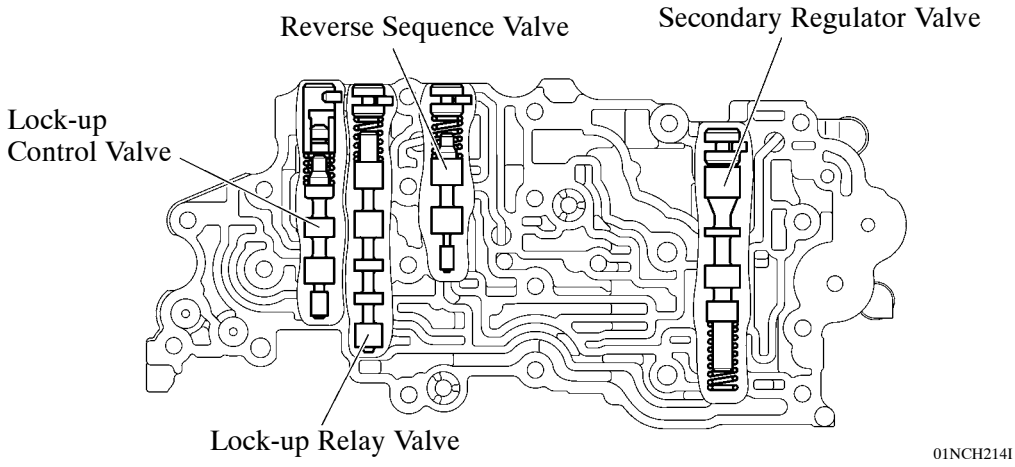
The valve body unit consists of a No. 1 upper valve body, a No. 2 upper valve body and a lower valve body and 7 shift solenoid valves.



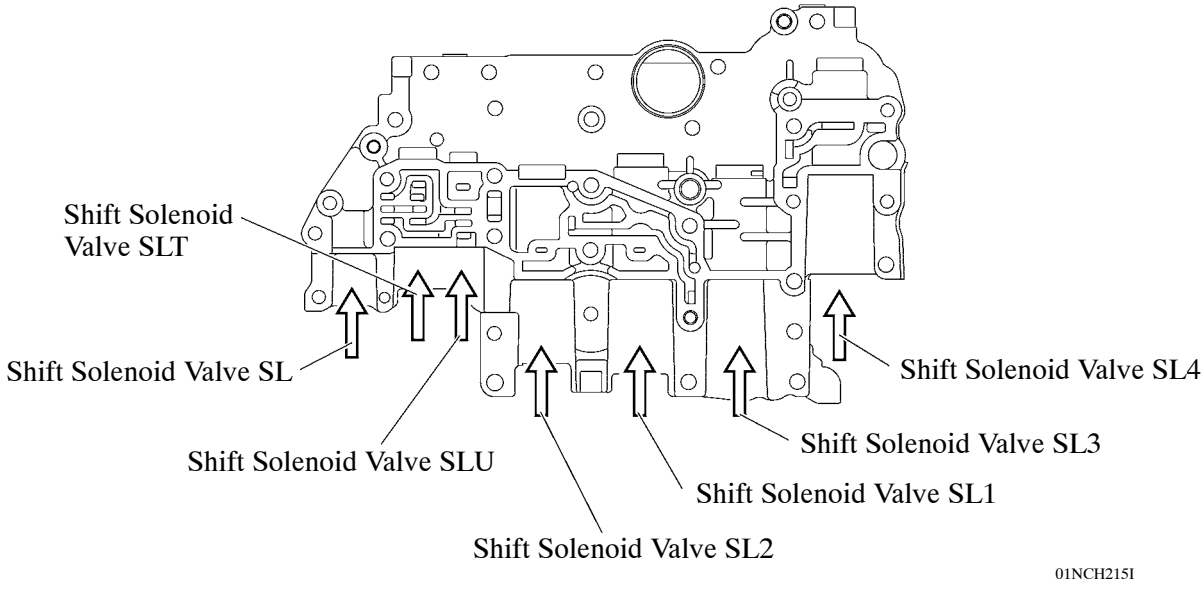
▶ No. 1 Upper Valve Body ◀



▶ No. 2 Upper Valve Body ◀



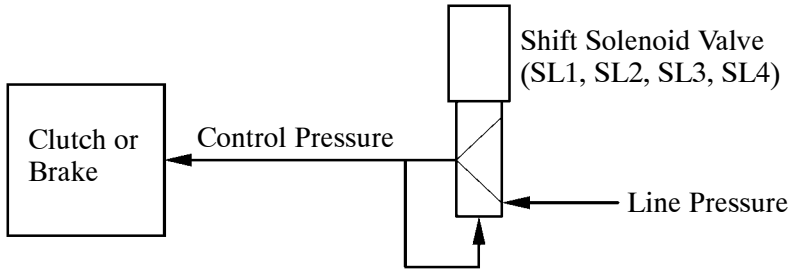
▶ Lower Valve Body ◀



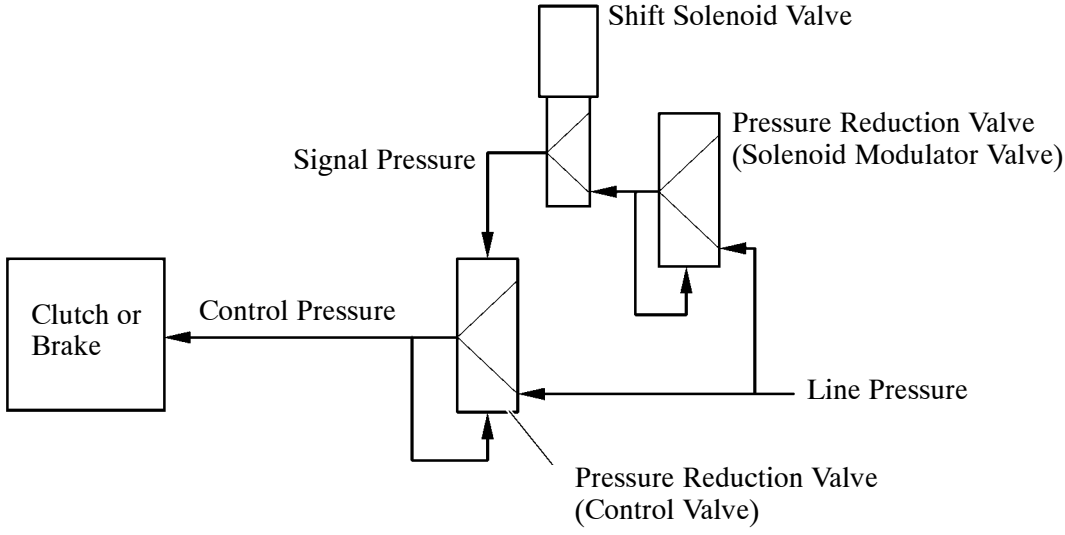
2. Shift Solenoid Valves

Shift Solenoid Valves SL1, SL2, SL3, SL4, SLU and SLT

- In order to provide a hydraulic pressure that is proportional to the current that flows to the solenoid coil, shift solenoid valves SL1, SL2, SL3, SL4, SLU and SLT linearly control the line pressure and clutch and brake engagement pressure based on the signals from the ECT ECU.
- Shift solenoid valves SL1, SL2, SL3 and SL4 are high flow linear solenoid valves that can supply more pressure than conventional ones. These shift solenoid valves control engagement elements by directly regulating the line pressure without using a pressure regulation valve (control valve) or a pressure reduction valve (solenoid modulator valve). Thus, the number of valves and the length of the valve body fluid passage have been reduced, the shifting response has been increased and shift shock has been minimized.

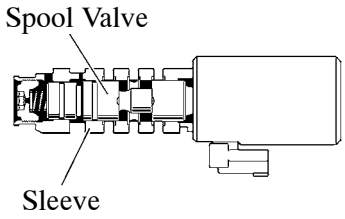


U660E Automatic Transaxle

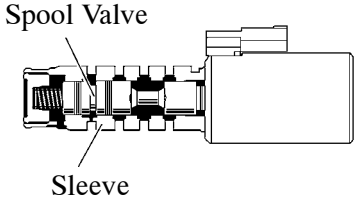


Conventional

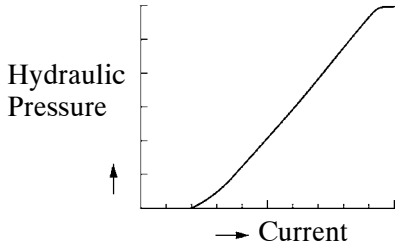
12ECH004I



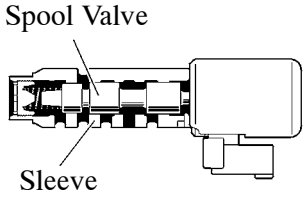
Shift Solenoid Valves SL1 and SL3



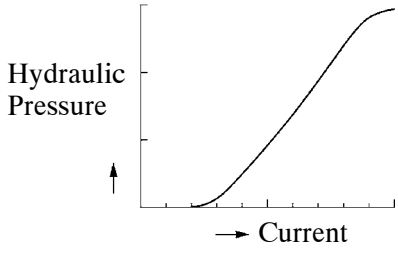
Shift Solenoid Valves SL2 and SL4



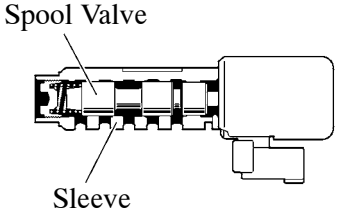
Output Characteristic (SL1, SL2, SL3, SL4)



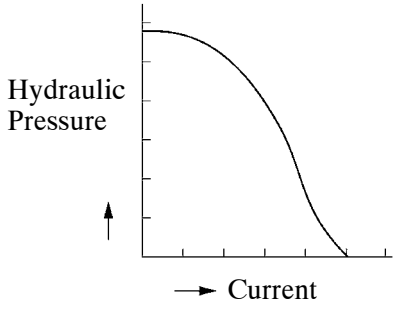
Shift Solenoid Valve SLU



Output Characteristic (SLU)



Shift Solenoid Valve SLT



12ECH005I

Output Characteristic (SLT)

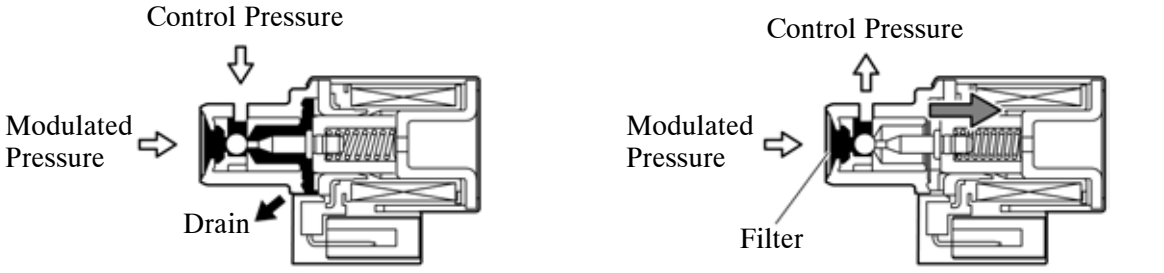
▶ Function of Shift Solenoid Valves ◀

Shift Solenoid Valve	Function
SL1	No. 1 clutch (C_1) pressure control
SL2	No. 2 clutch (C_2) pressure control
SL3	No. 1 brake (B_1) pressure control
SL4	No. 3 brake (B_3) pressure control
SLU	● Lock-up clutch pressure control ● No. 2 brake (B_2) pressure control
SLT	Line pressure control

NF

Shift Solenoid Valve SL

- Shift solenoid valve SL is a 3-way solenoid valve.
- A filter is provided at the tip of the solenoid valve to further improve operational reliability.



▶ Function of Shift Solenoid Valve ◀

Shift Solenoid Valve	Function
SL	● Switches the lock-up relay valve. ● Switches the B_2 apply control valve and the reverse sequence valve.