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## **2008 CHEVROLET Silverado 1500 Regular Cab OEM Service and Repair Workshop Manual**

[Go to manual page](#)

## YOUR CURRENT VEHICLE

# Drive Range, Fifth Gear

## Drive Range, Fifth Gear

As the vehicle speed increases, the transmission control module (TCM) receives input signals from the automatic transmission input and output speed sensors, the throttle position sensor and other vehicle sensors to determine the precise moment to command ON the normally-low 1-3-5-6- 7 control solenoid. At the same time the normally-high 2-3-4-6-8 control solenoid is commanded OFF.

## 1-3-5-6-7 Clutch Applies

### 1-3-5-6-7 Control Solenoid Valve Assembly

The 1-3-5-6-7 control solenoid is energized allowing line fluid to enter the S3 VFS SIG fluid circuit which applies fluid pressure against the S3 VFS SIG accumulator spring force and against the 13567 control valve spring force. This allows

13567 CL/23468 CL FD fluid to enter the 13567 clutch fluid circuit and thru the 13567 control valve orifice #38 to FDBK.

### 1-3-5-6-7 Clutch Accumulator

13567 CLU fluid is directed thru orifice #43 and into the 1-3-5-6-7 clutch accumulator where it applies pressure against the 1-3-5-6-7 clutch accumulator spring force.

### 1-3-5-6-7 Clutch Assembly

13567 CLU fluid is also directed to the 1-3-5-6-7 clutch assembly housing. 13567 CLU fluid moves the piston against spring force to apply holding of the 1-3-5-6-7 clutch plates.

## 2-3-4-6-8 Clutch Releases

### 2-3-4-6-8 Control Solenoid

The 2-3-4-6-8 control solenoid is signaled off allowing S4 VFS SIG fluid to exhaust. Spring pressure shifts the valve to allow 23468 CLUTCH fluid to exhaust into EX BACKFILL from the 2-3-4-6-8 clutch assembly housing.

### 2-3-4-6-8 Clutch Assembly

## YOUR CURRENT VEHICLE

### Drive Range, First Gear

#### Drive Range, First Gear

As the vehicle speed increases, the transmission control module (TCM) receives input signals from the automatic transmission input and output speed sensors, throttle position sensor and other vehicle sensors to determine the precise moment to energize or "turn on" 1-2-3-5-7 control solenoid and command ON the normally-low 1-2-3-4-5 reverse boost solenoid and default control solenoid.

#### Fluid Pressure is Directed to the 1-3-5-6-7 Clutch Assembly

#### Manual Valve

The manual valve is moved to the drive position and allows line fluid pressure to enter the drive fluid circuit. Drive fluid is then routed to the default override valve.

#### #2 Ball Check Valve

Drive fluid is directed thru orifice #59 into the 45678R CL DR FD fluid circuit which seats the #2 ball check valve against the reverse circuit allowing fluid to enter the 45678R CLUTCH FEED circuit. 45678R CLU FEED fluid is directed thru orifice #35 then to the 45678R control valve.

#### 1-3-5-6-7 Clutch Applies

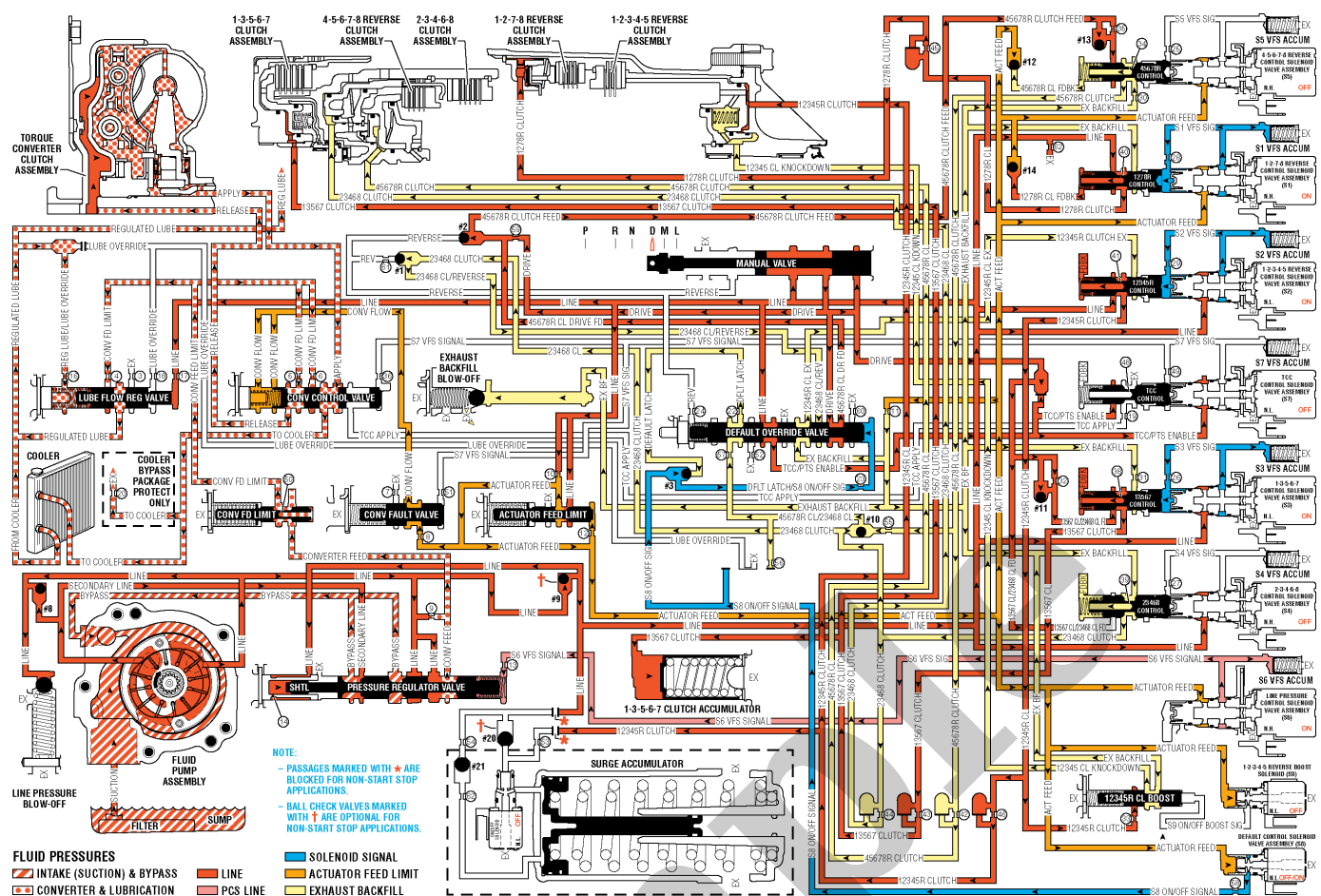
#### 1-3-5-6-7 Control Solenoid Valve Assembly

The 1-3-5-6-7 control solenoid is energized allowing line fluid to enter the S3 VFS SIG fluid circuit which applies fluid pressure against the S3 VFS SIG accumulator spring force and against the 13567 control valve spring force. This allows 13567 CL/23468 CL FD fluid to enter the 13567 clutch fluid circuit and thru the 13567 control valve orifice #38 to FDBK.

#### 1-3-5-6-7 Clutch Accumulator

13567 CLU fluid is directed thru orifice #43 and into the 1-3- 5-6-7 clutch accumulator where it applies pressure against the 1-3-5-6-7 clutch accumulator spring force.

#### 1-3-5-6-7 Clutch Assembly



OVERRIDE fluid circuit which continues to the lube flow regulator valve. S8 ON/OFF SIG fluid is also directed to the #3 ball check valve.

1-3-5-6-7 Clutch Releases

1-3-5-6-7 Control Solenoid

The 1-3-5-6-7 control solenoid is signaled off allowing S3 VFS SIG fluid to exhaust. Spring pressure shifts the valve to allow 13567 CLUTCH fluid to exhaust into EX BACKFILL from the 1-3-5-6-7 clutch accumulator and the 1-3-5-6-7 clutch assembly housing.

1-3-5-6-7 Clutch Assembly

The 1-3-5-6-7 clutch is released allowing 13567 CLUTCH fluid to exhaust thru the 1-3-5-6-7 control solenoid.

1-3-5-6-7 Clutch Accumulator

The 1-3-5-6-7 clutch accumulator is released allowing 13567 CLUTCH fluid to exhaust thru the 1-3-5-6-7 control solenoid.

Drive Range, Fourth Gear

