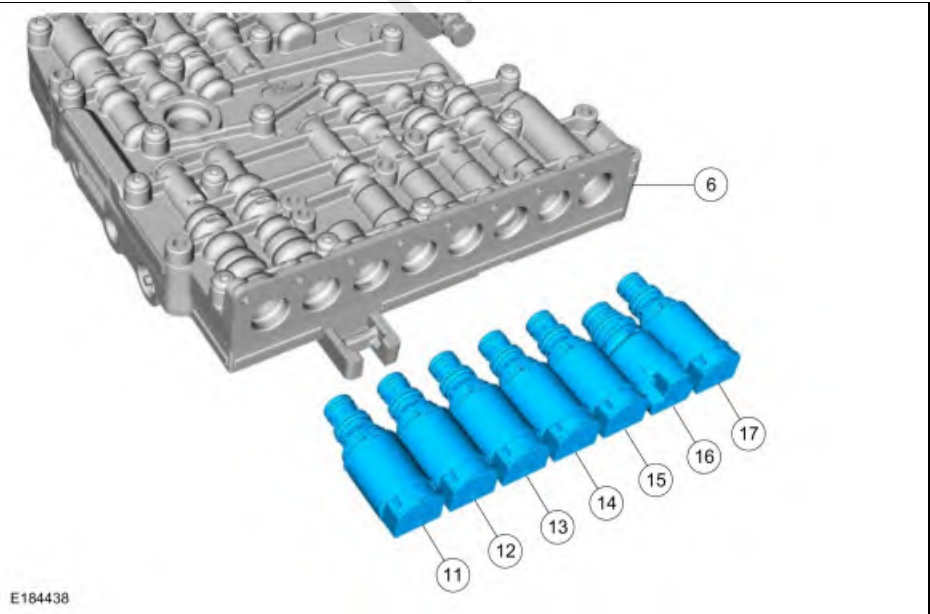
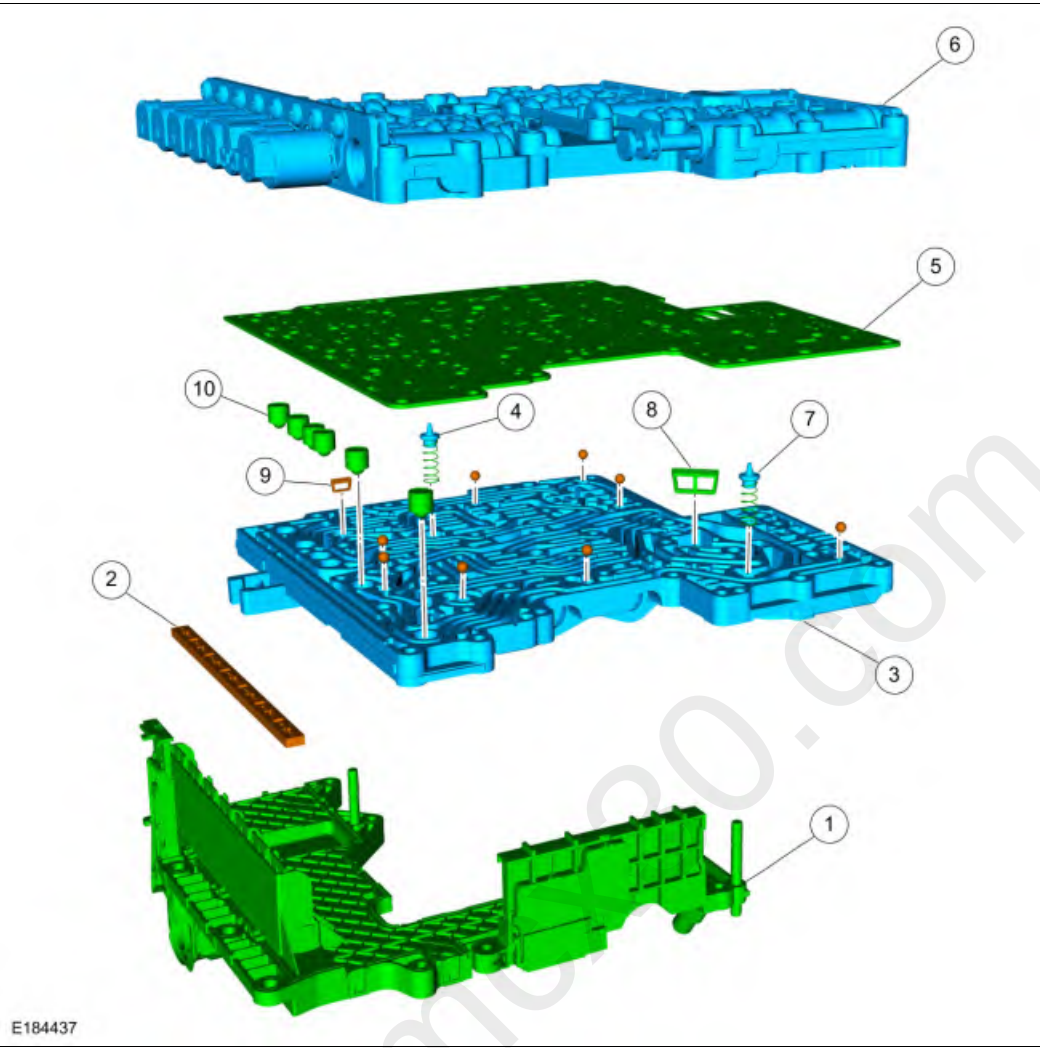
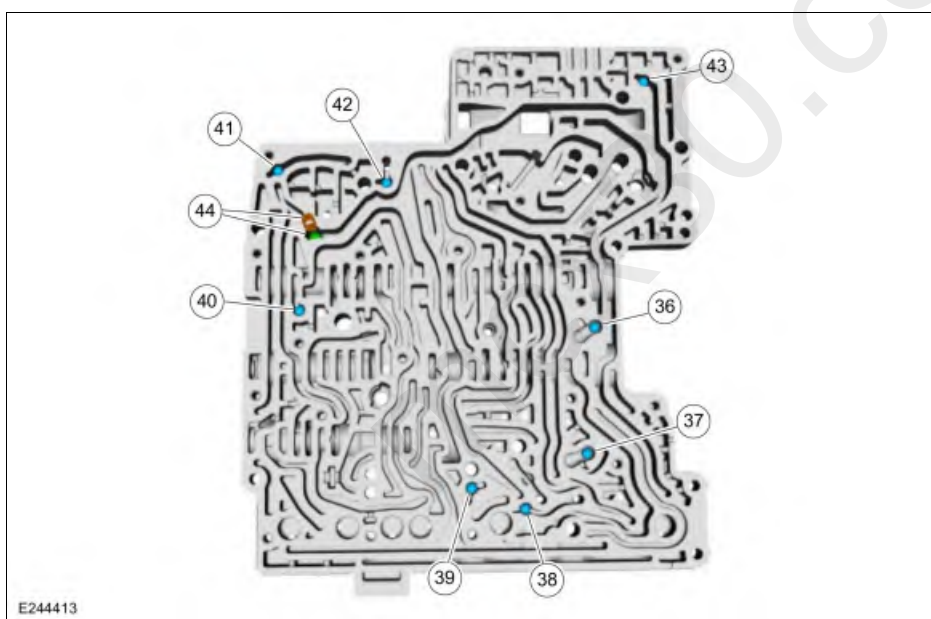
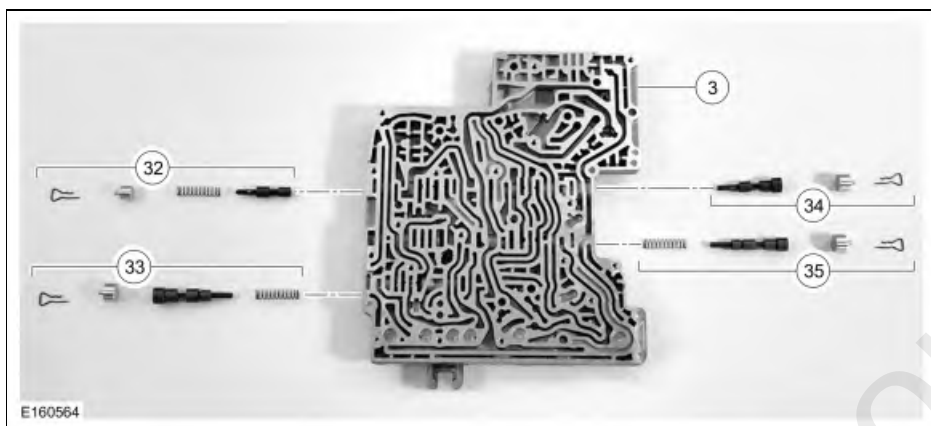
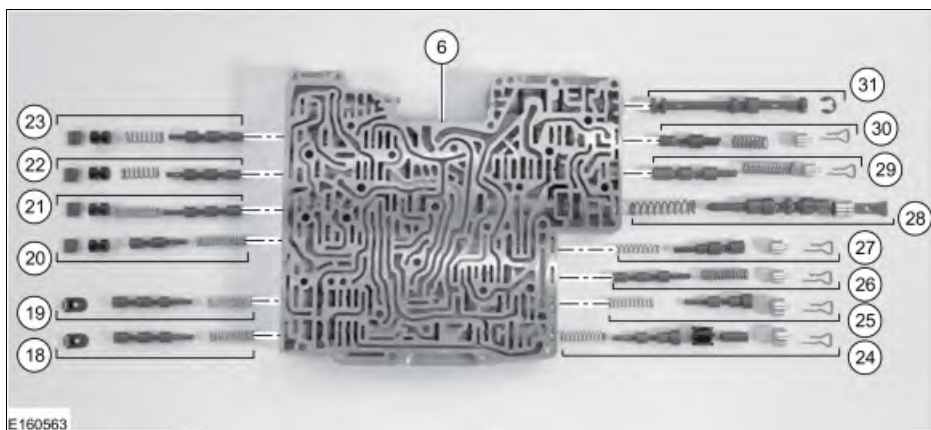


## Main Control Valve Body

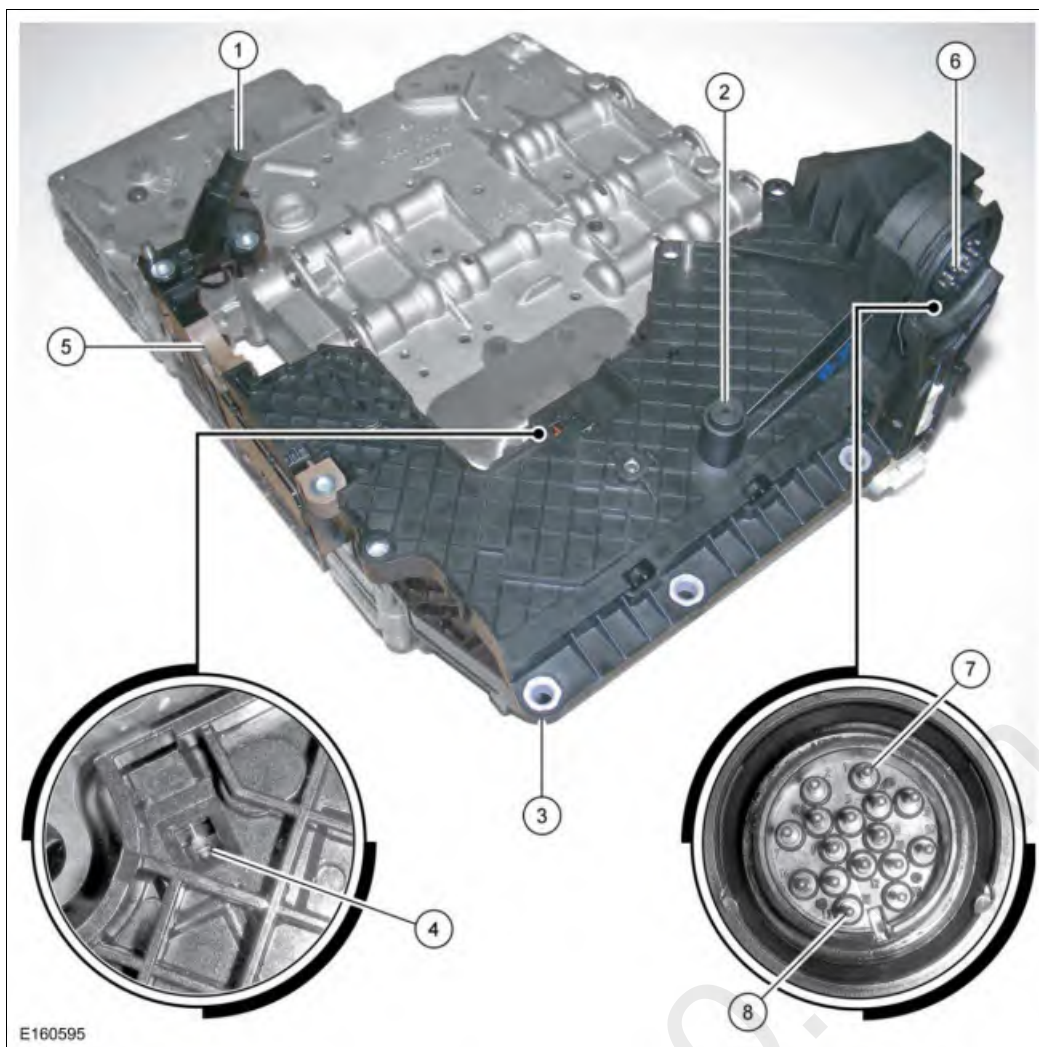




|    |                                                 |
|----|-------------------------------------------------|
| 1  | Main control / Molded leadframe                 |
| 2  | Foam strip seal                                 |
| 3  | Transmission control valve body (upper)         |
| 4  | Clutch exhaust valve                            |
| 5  | Transmission control valve body separator plate |
| 6  | Transmission control valve body (lower)         |
| 7  | Converter drain back valve                      |
| 8  | Transmission control filter assembly            |
| 9  | Transmission fluid filter                       |
| 10 | Transmission solenoid damper valve assembly     |

|    |                                                        |
|----|--------------------------------------------------------|
| 11 | Solenoid A (SSA)                                       |
| 12 | Solenoid B (SSB)                                       |
| 13 | Solenoid C (SSC)                                       |
| 14 | Line Pressure Control (LPC) solenoid                   |
| 15 | Shift Solenoid D (SSD)                                 |
| 16 | Shift Solenoid E (SSE)                                 |
| 17 | Torque Converter Clutch (TCC) solenoid                 |
| 18 | Forward (A) clutch latch valve assembly                |
| 19 | Direct (B) clutch latch valve assembly                 |
| 20 | Solenoid regulator valve                               |
| 21 | Low/reverse (D1) clutch latch valve assembly           |
| 22 | Drive enable valve                                     |
| 23 | Solenoid multiplex valve                               |
| 24 | Forward (A) clutch regulator valve assembly            |
| 25 | Overdrive (E) clutch regulator valve assembly          |
| 26 | Overdrive (E) clutch latch valve assembly              |
| 27 | Bypass clutch control regulator valve assembly         |
| 28 | Main regulator valve assembly                          |
| 29 | Converter release regulator valve assembly             |
| 30 | Lubrication control valve assembly                     |
| 31 | Manual valve assembly                                  |
| 32 | Low/reverse (D2) clutch latch valve assembly           |
| 33 | Direct (B) clutch regulator valve assembly             |
| 34 | Low/reverse (D1) clutch regulator valve assembly       |
| 35 | Intermediate (C) clutch regulator valve                |
| 36 | Reverse/drive control check ball                       |
| 37 | Shift solenoid control check ball                      |
| 38 | Intermediate clutch exhaust control check ball         |
| 39 | Direct clutch exhaust control check ball               |
| 40 | Low/reverse clutch exhaust control check ball          |
| 41 | Forward clutch exhaust control check ball              |
| 42 | Overdrive clutch exhaust control check ball            |
| 43 | Reverse exhaust control check ball                     |
| 44 | Auxiliary pump check ball and spring (model dependent) |

#### Main Control Valve Body



|   |                     |
|---|---------------------|
| 1 | TSS                 |
| 2 | OSS                 |
| 3 | Molded leadframe    |
| 4 | TFT                 |
| 5 | TR                  |
| 6 | Leadframe connector |
| 7 | Terminal 1          |
| 8 | Terminal 16         |

## Solenoid Operation Chart

### Solenoid Operation Chart

| Base Selector Lever Position | PCM/TCM Commanded Gear | SSA NL (1,2,3,4) | SSB NH (3,5,R) | SSC NL (2,6) | SSD NH (L,R, 4,5,6) | SSE (On/Off) NC     | TCC NL |
|------------------------------|------------------------|------------------|----------------|--------------|---------------------|---------------------|--------|
| P                            | P                      | Off              | On             | Off          | Off                 | Off                 | Off    |
| R                            | R                      | Off              | Off            | Off          | Off                 | Off                 | Off    |
| N                            | N                      | Off              | On             | Off          | Off                 | Off                 | Off    |
| D                            | 1                      | On               | On             | Off          | Off <sup>b</sup>    | Off                 | Off    |
|                              | 2                      | On               | On             | On           | On                  | Off                 | Off    |
|                              | 3                      | On               | Off            | Off          | On                  | On/Off <sup>a</sup> | On/Off |

|    |     |     |     |     |     |     |        |
|----|-----|-----|-----|-----|-----|-----|--------|
|    | 4   | On  | On  | Off | Off | On  | On/Off |
|    | 5   | Off | Off | Off | Off | On  | On/Off |
|    | 6   | Off | On  | On  | Off | On  | On/Off |
| Mc | â€” | â€” | â€” | â€” | â€” | â€” | â€”    |

- NC = Normally closed
- NH = Normally high
- NL = Normally low
- Solenoid changes from off to on just after the 2-3 upshift and from on to off just before the 3-1 downshift.
- Solenoid is on when vehicle is above 3 mph.
- All gears available upon driver request.

### Main Control Valve Body Mechanical Operation

The main control consists of a valve body assembly with solenoids that are controlled by the PCM. The PCM operates the electrical components to provide refined engagement feel, shift feel, and shift scheduling.

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