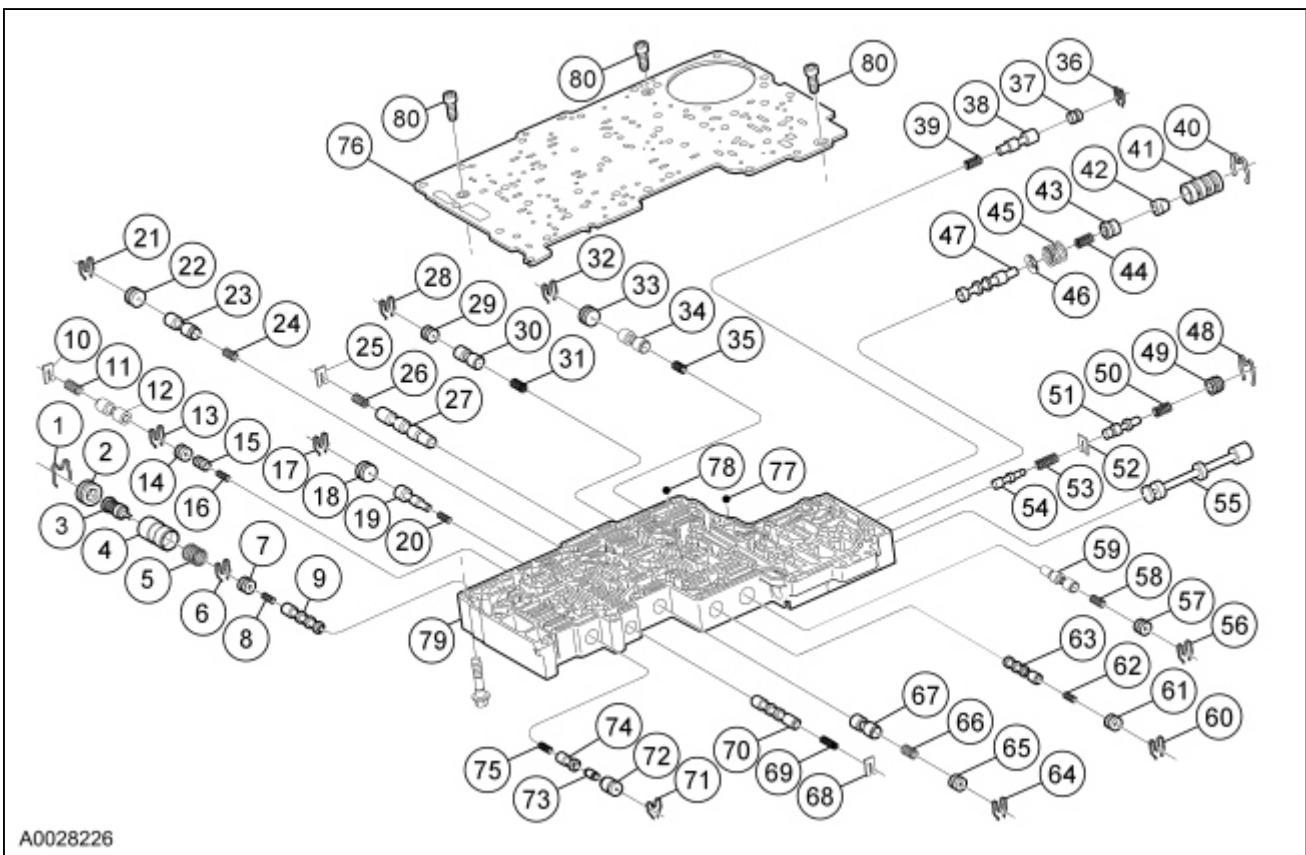


Main Control Valve Body

Special Tool(s)

 ST1639-A	Aligner, Valve Body (2 required) 307-334 (T95L-70010-C)
---	--



Item	Part Number	Description
1	—	Clip — retainer
2	—	Plug — retainer
3	—	Valve assembly — thermo
4	—	Valve — fluid cooler bypass
5	—	Spring — fluid cooler bypass
6	—	Clip — retainer
7	—	Plug — retainer
8	—	Spring — converter clutch control valve
9	—	Valve — converter clutch control
10	—	Plate
11	—	Spring — coast clutch control
12	—	Valve — coast clutch control

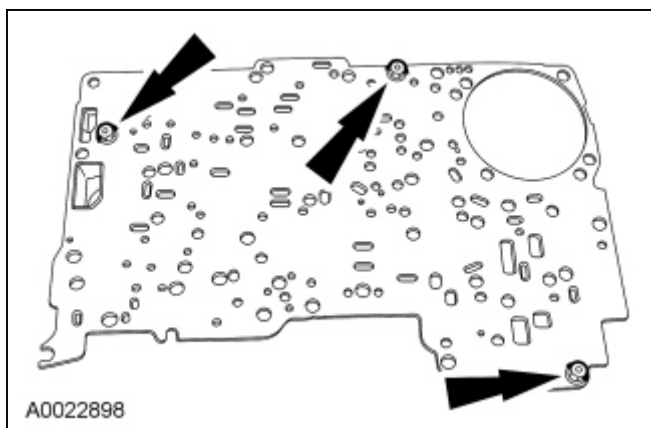
13	—	Clip — retainer
14	—	Plug — retainer
15	—	Valve — converter clutch back pressure
16	—	Spring — converter clutch back pressure
17	—	Clip — retainer
18	—	Plug — retainer
19	—	Valve — VFS2 modulator
20	—	Spring — VFS2 modulator valve
21	—	Clip — retainer
22	—	Plug — retainer
23	—	Valve — intermediate servo release
24	—	Spring — intermediate servo release valve
25	—	Plate
26	—	Spring — high clutch control
27	—	Valve — high clutch control
28	—	Plug — retainer
29	—	Clip — retainer
30	—	Valve — reverse modulator
31	—	Spring — reverse modulator valve
32	—	Clip — retainer
33	—	Plug — retainer
34	—	Valve — reverse engagement
35	—	Spring — reverse engagement valve
36	—	Clip — retainer
37	—	Plug — retainer
38	—	Valve — VFS1 modulator
39	—	Spring — VFS1 modulator valve
40	—	Clip — retainer
41	—	Sleeve
42	—	Valve — booster
43	—	Valve — booster
44	—	Spring — inner
45	—	Spring — outer
46	—	Spring — retainer
47	—	Valve — main regulator
48	—	Clip — retainer
49	—	Plug — retainer
50	—	Spring — converter limit
51	—	Valve — converter limit
52	—	Plate
53	—	Spring — solenoid regulator valve
54	—	Valve — solenoid regulator
55	—	Valve — manual
56	—	Clip — retainer

	—	Plug — retainer
58	—	Spring — rear servo control valve
59	—	Valve — rear servo control
60	—	Clip — retainer
61	—	Plug — retainer
62	—	Spring — RS ISA select valve
63	—	Valve — RS ISA select
64	—	Clip — retainer
65	—	Plug — retainer
66	—	Spring — forward engagement control valve
67	—	Valve — forward engagement control
68	—	Plate
69	—	Spring — Overdrive (O/D) servo control
70	—	Valve — <u>O/D</u> servo control
71	—	Retainer — clip
72	—	Sleeve — converter clutch modulator control
73	—	Valve — converter clutch modulator control
74	—	Valve — converter clutch modulator
75	—	Spring — converter clutch modulator control
76	7Z490	Plate assembly — main control valve body separator
77	7E195	Ball — lubrication check
78	7E195	Ball — shuttle valve
79	7A101	Body — control valve lower
80	W701099	Main control valve body separator plate screws

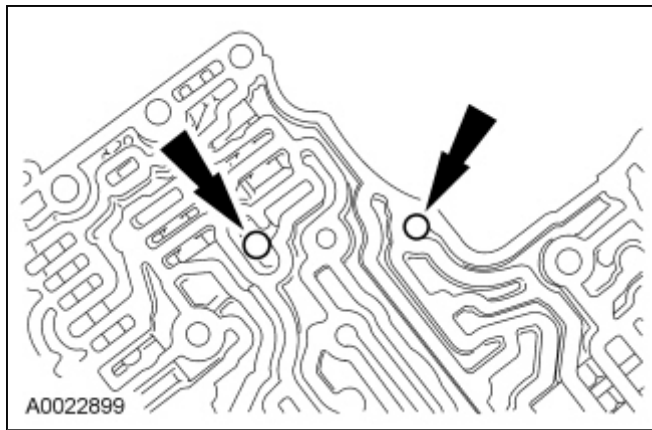
Disassembly

1. **NOTE:** The main control valve body separator plate has a bonded gasket. Do not reuse. Discard the plate.

Remove and discard the main control valve body separator plate.



2. Remove the check balls.



3. **NOTE:** Refer to the disassembled view.

Disassemble the main control valve body only if cleaning is required.

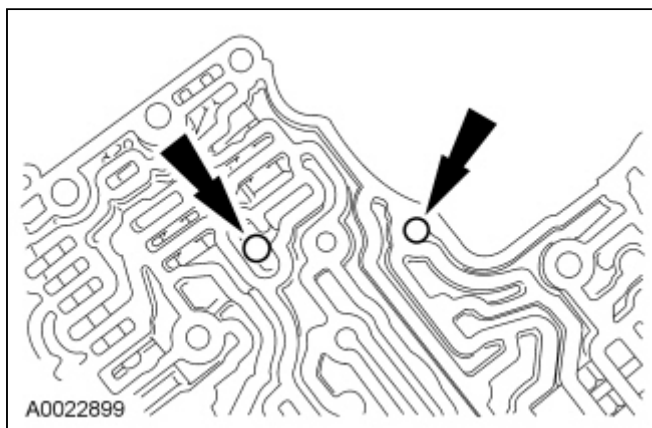
Assembly

1. Thoroughly clean all parts in solvent and blow dry with moisture-free compressed air.
2. **NOTICE:** Do not stone, file or sand the valves. This will remove the anodized finish and may result in further main control or transmission damage.

After cleaning the main control valve body, carry out the following:

- Inspect all valve and plug bores for scoring or burrs.
- Check all fluid passages for obstructions.
- Inspect all valves and plugs for burrs.
- Inspect all mating surfaces for burrs or distortion.
- Inspect all springs for distortion.
- Check all valves and plugs for free movement in their respective bores.
 - Valves and plugs, when dry, must fall from their own weight into their respective bores.
- Roll the manual valve on a flat surface to check for a bent condition.

3. Assemble the main control valve body.
4. Install the main control valve body check balls.



5. **NOTE:** Use a new main control valve body separator plate for main control valve body installation.

Using the Valve Body Aligners, install a new main control valve body separator plate.

- Tighten to 7 Nm (62 lb-in).

