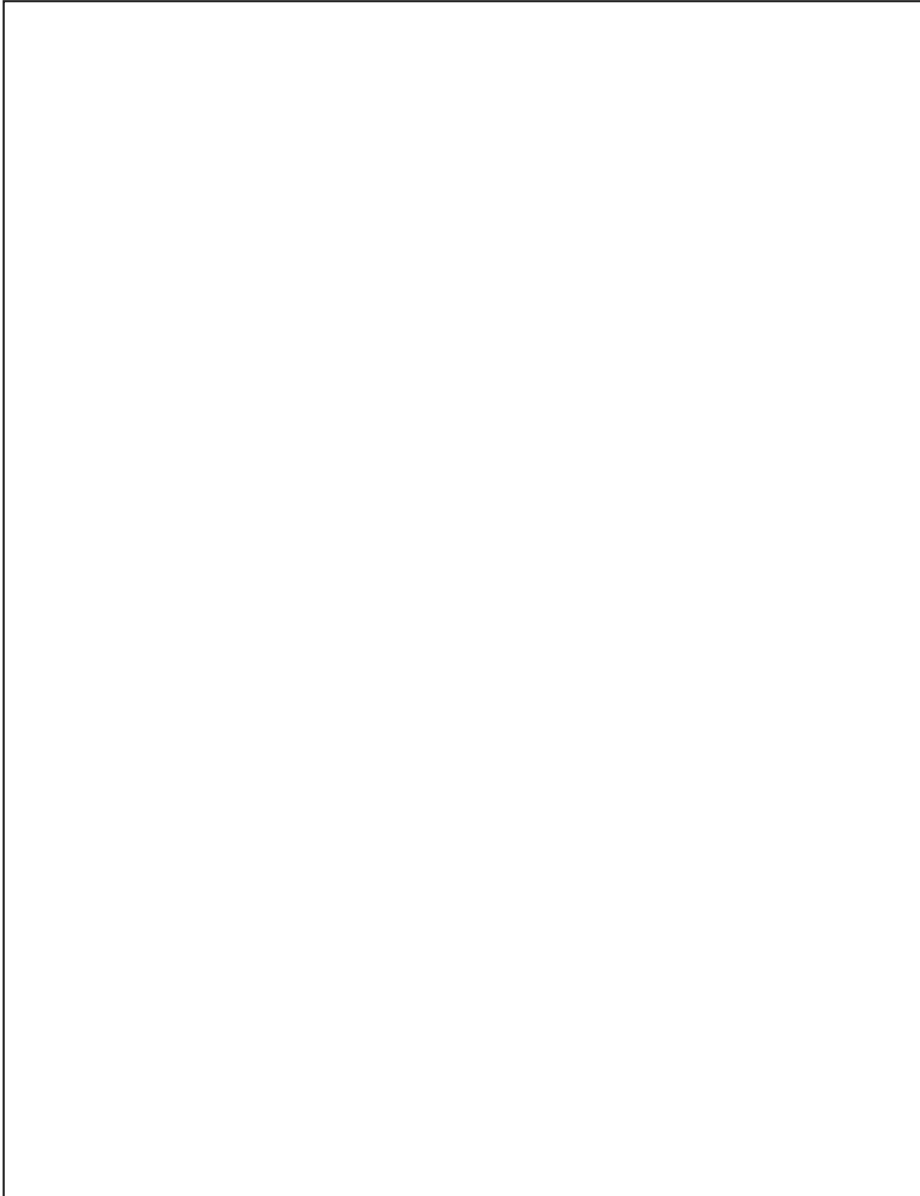


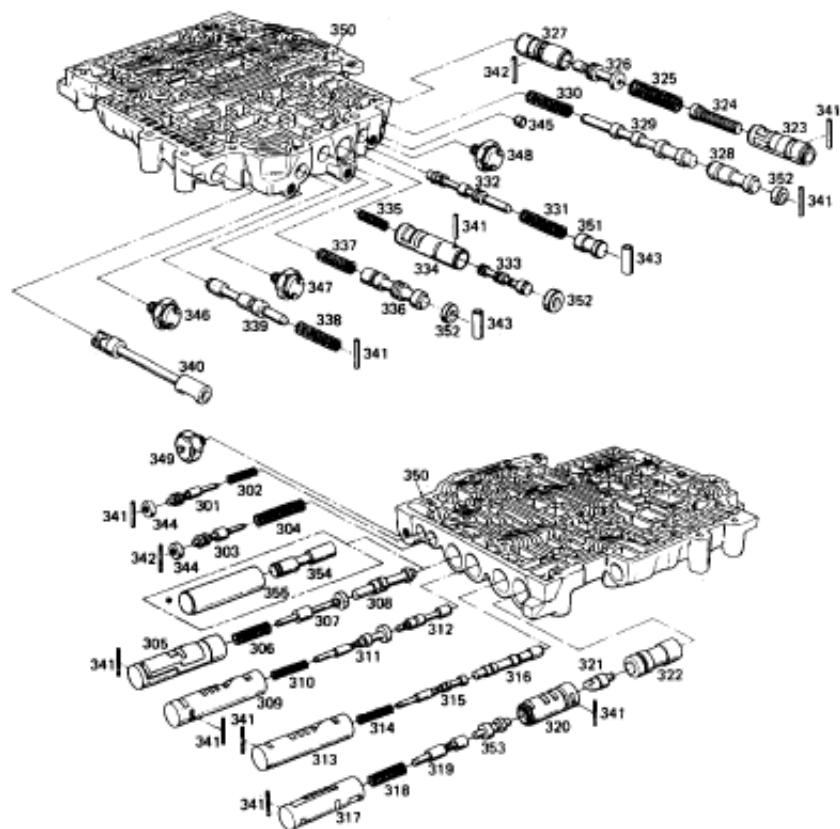
1983 Chevy Truck C 20 3/4 Ton Pickup 2WD V8-350 5.7L VIN L 4-bbl

Vehicle » Transmission and Drivetrain » Automatic Transmission/Transaxle » Service and Repair » Overhaul » 700-R4 Automatic Transmission » Subassembly Service » External Components » Control Valve Assembly

Clean control valve assembly with suitable solvent, then allow to air dry.

1.





*USED ON VEHICLES HAVING ECM CONTROL OF T.C.C. APPLY

- | | |
|--|--|
| 301 VALVE, T.V. MODULATOR DOWNSHIFT | 329 VALVE, 4-3 SEQUENCE |
| 302 SPRING, T.V. MODULATOR DOWNSHIFT VALVE | 330 SPRING, 4-3 SEQUENCE VALVE |
| 303 VALVE, T.V. MODULATOR UPSHIFT | 331 SPRING, T.V. LIMIT VALVE |
| 304 SPRING, T.V. MODULATOR UPSHIFT VALVE | 332 VALVE, T.V. LIMIT |
| 305 SLEEVE, CONVERTER CLUTCH THROTTLE | 333 VALVE, 1-2 ACCUMULATOR |
| 306 SPRING, CONVERTER CLUTCH THROTTLE | 334 SLEEVE, 1-2 ACCUMULATOR VALVE |
| 307 VALVE, CONVERTER CLUTCH THROTTLE | 335 SPRING, 1-2 ACCUMULATOR VALVE |
| 308 VALVE, CONVERTER CLUTCH SHIFT | 336 VALVE, LINE BIAS |
| 309 SLEEVE, 3-4 THROTTLE VALVE | 337 SPRING, LINE BIAS VALVE |
| 310 SPRING, 3-4 THROTTLE VALVE | 338 SPRING, 3-2 CONTROL |
| 311 VALVE, 3-4 THROTTLE | 339 VALVE, 3-2 CONTROL |
| 312 VALVE, 3-4 SHIFT | 340 VALVE, MANUAL |
| 313 SLEEVE, 2-3 THROTTLE VALVE | 341 PIN, COILED SPRING |
| 314 SPRING, 2-3 THROTTLE VALVE | 342 PIN, COILED SPRING |
| 315 VALVE, 2-3 THROTTLE | 343 RETAINER, SPRING (SLEEVE) |
| 316 VALVE, 2-3 SHIFT | 344 PLUG, VALVE BORE |
| 317 SLEEVE, 1-2 THROTTLE VALVE | 345 PLUG, CUP (.33 DIA.) |
| 318 SPRING, 1-2 THROTTLE VALVE | 346 SWITCH ASSEMBLY, PRESSURE (3RD CLUTCH) |
| 319 VALVE, 1-2 THROTTLE | 347 SWITCH ASSEMBLY, PRESSURE (4-3 PULSE) |
| 320 SLEEVE, LO RANGE CONTROL | 348 SWITCH ASSEMBLY, PRESSURE (4TH CLUTCH) |
| 321 VALVE, 1-2 LO RANGE DOWNSHIFT | 349 SWITCH ASSEMBLY, PRESSURE (T.C.C. SIGNAL) |
| 322 VALVE, 1-2 SHIFT | 350 BODY, CONTROL VALVE |
| 323 SLEEVE, THROTTLE VALVE PLUNGER | 351 PLUG, T.V. LIMIT |
| 324 PLUNGER, THROTTLE VALVE | 352 PLUG, VALVE BORE (12.5 - O.D.) |
| 325 SPRING, THROTTLE VALVE | 353 VALVE, 1-2 LO RANGE UPSHIFT |
| 326 VALVE, THROTTLE | 354 PLUG, CONVERTER CLUTCH SHIFT VALVE BORE (ECM CONTROLLED VEHICLES) |
| 327 SLEEVE, THROTTLE VALVE | 355 PLUG, CONVERTER CLUTCH T.V. BUSHING BORE (ECM CONTROLLED VEHICLES) |
| 328 VALVE, 3-4 RELAY | |

2. Disassemble control valve assembly, as follows:

- a. Place assembly on clean surface, then remove valve trains beginning with the upper left hand corner. Some valves are under pressure. Cover the bores while removing roll pins.
- b. Remove blind hole roll pins using a suitable tool.
- c. Valves, springs and bushings should be laid out on clean surface in the exact sequence they are removed.
- d. Remove pressure switches.

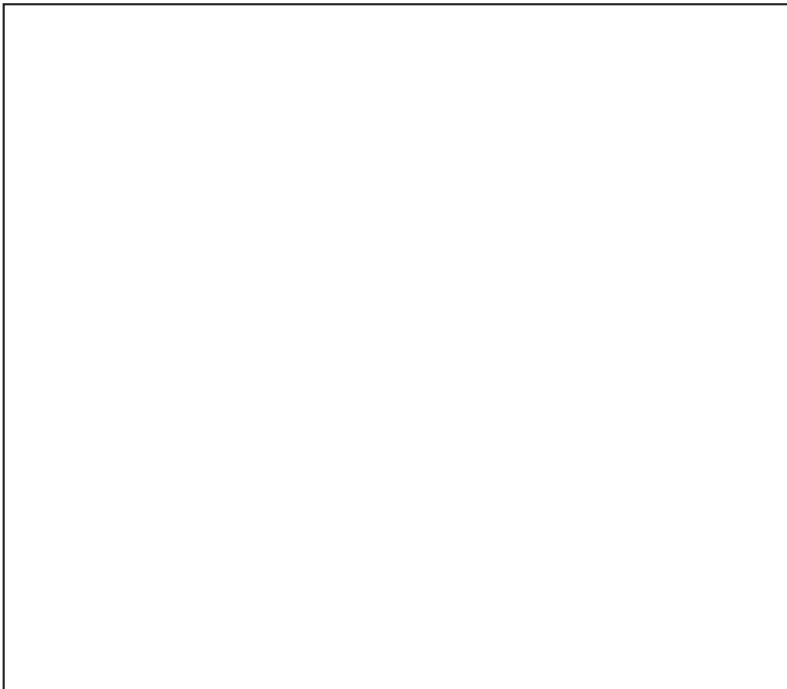
3. Clean all valves, springs and control valve body in suitable solvent, then dry using compressed air.

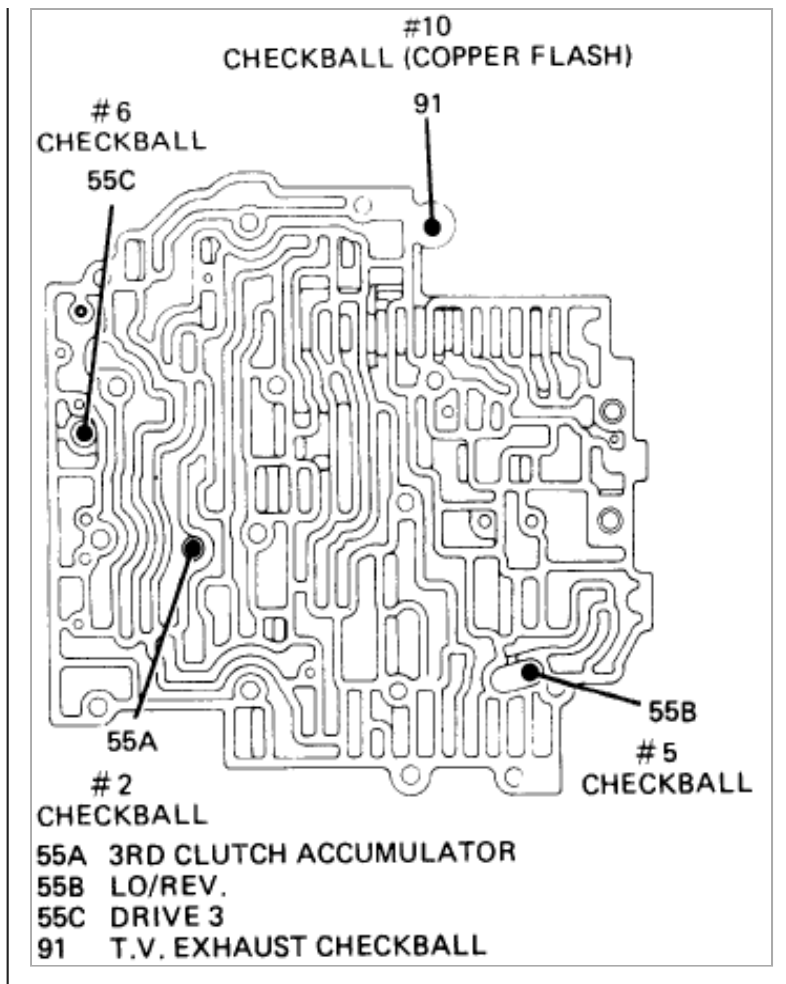
4. Inspect all valves and bushings for porosity, scoring, nicks and scratches.

5. Inspect springs for damage or distorted coils.

6. Inspect **valve body** casting for porosity, cracks, interconnected oil passages and damaged machine surfaces.

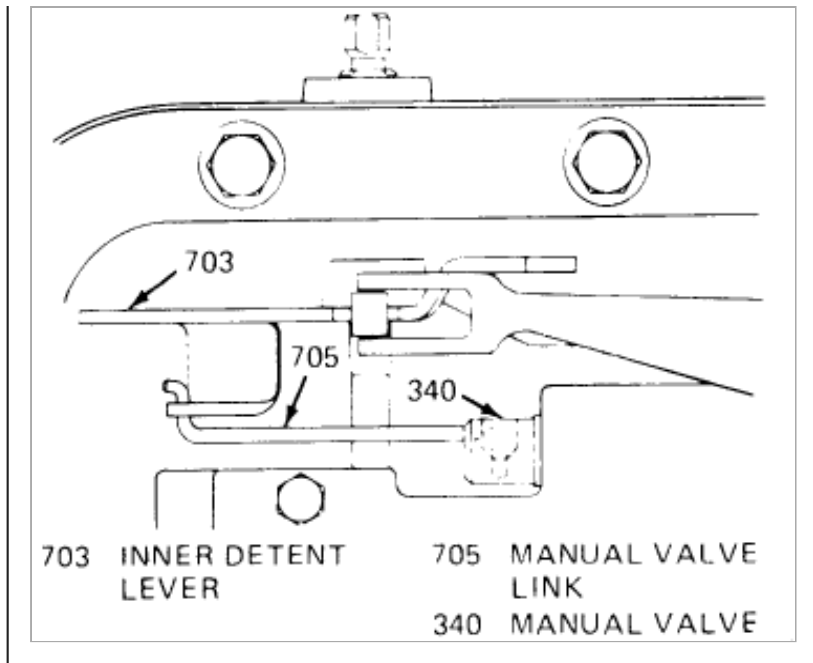
7. Assemble control valve assembly as shown in image. Note position of valve lands and bushing passages.



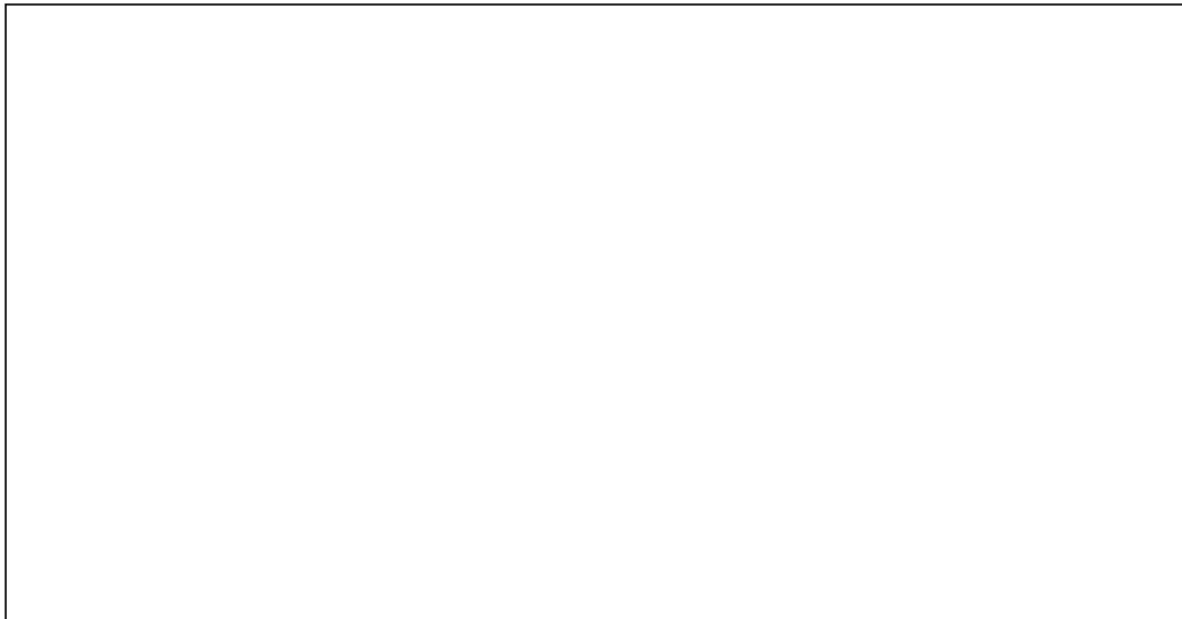


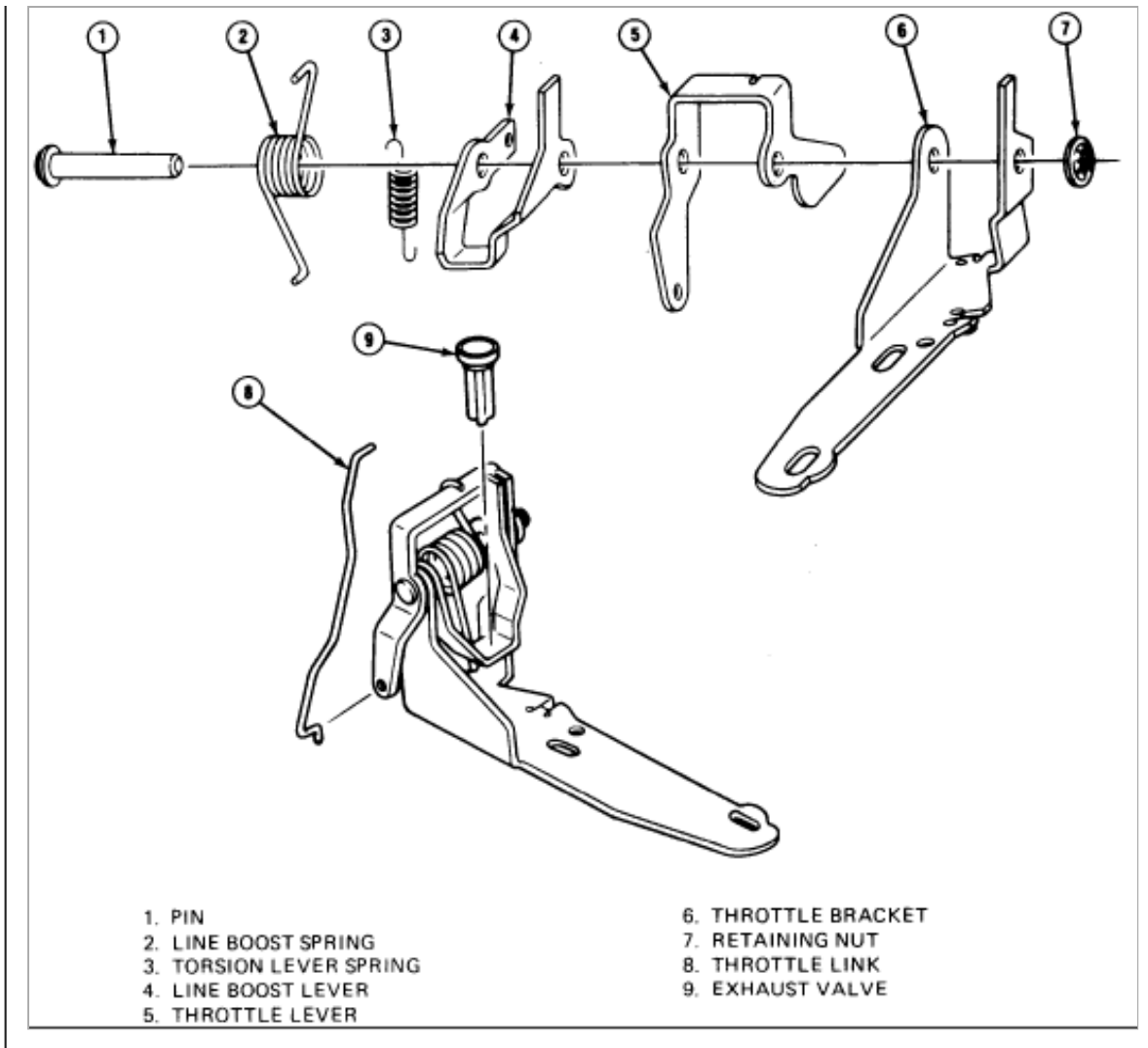
8. Install check balls into valve body assembly. Retain check balls in position using suitable grease.





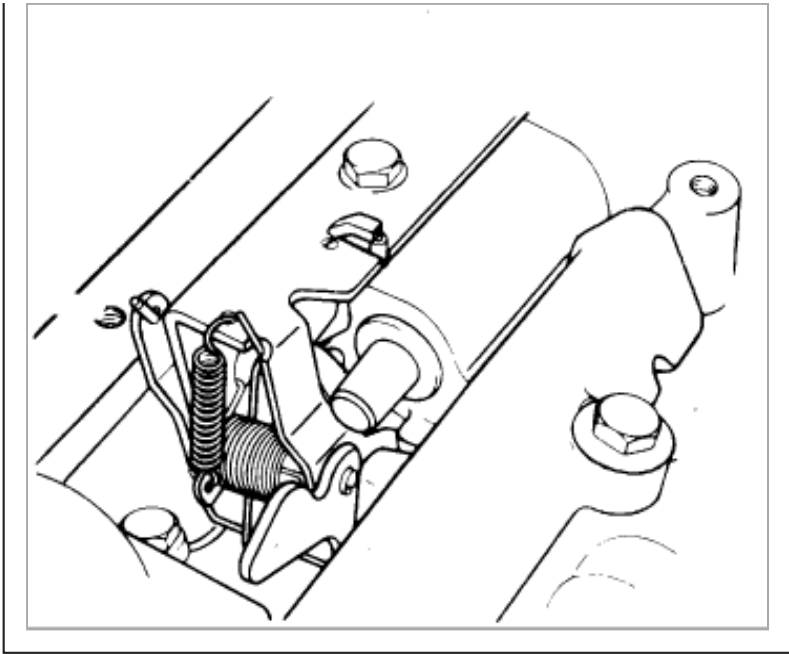
9. Install [valve body](#) assembly. Connect manual valve link inside detent lever.



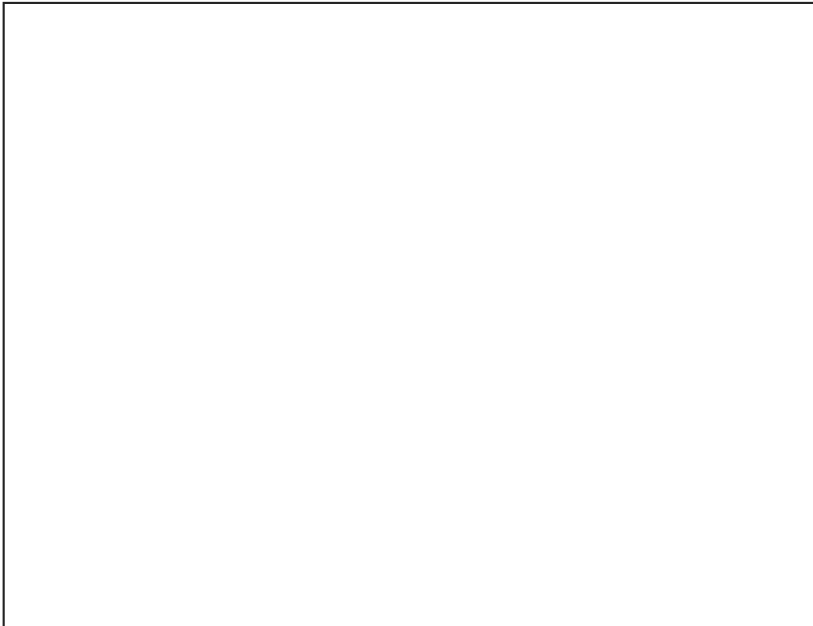


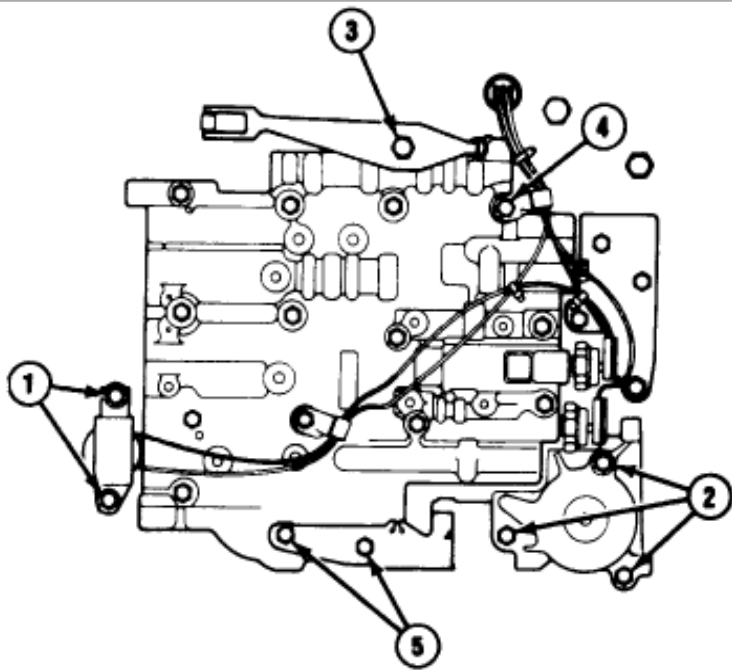
10. Inspect throttle lever and bracket assembly for sticking, binding or damage. Ensure assembly operates freely without restrictions.





11. Install T.V. link onto the T.V. lever and bracket, then the T.V. lever and bracket assembly onto the [valve body](#) as shown in Figure.





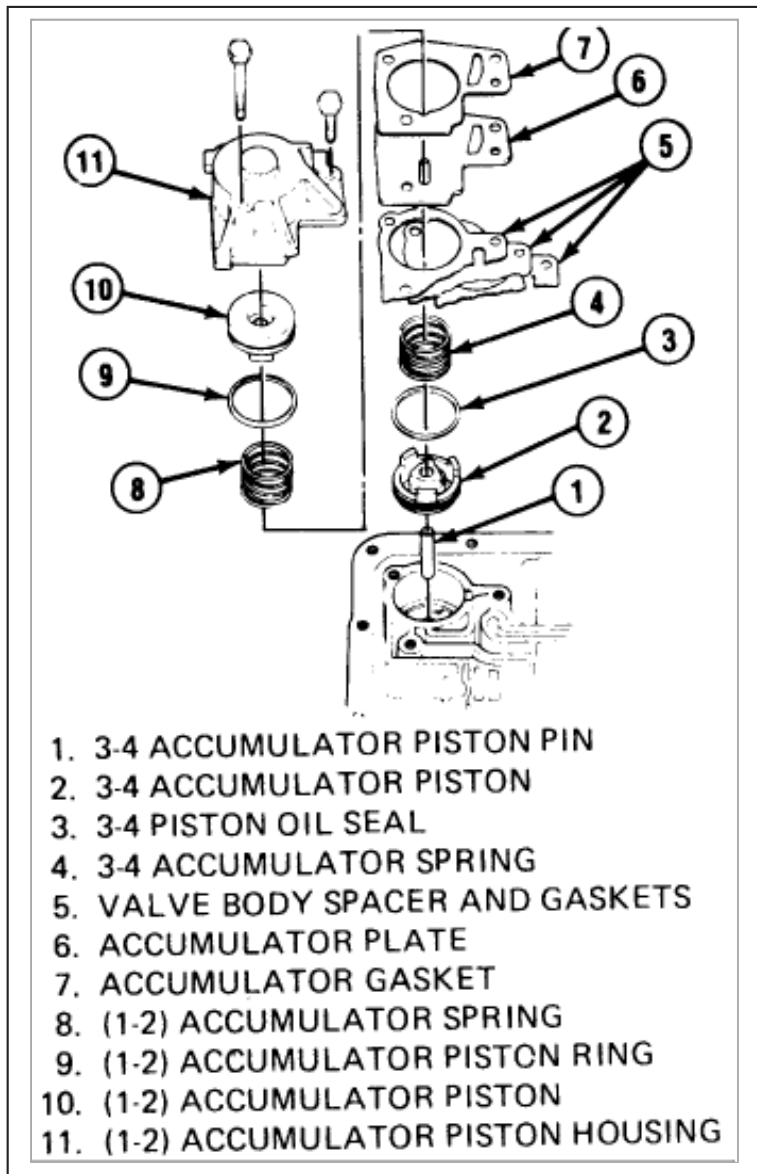
1. SOLENOID BOLTS
2. ACCUMULATOR HOUSING
3. MANUAL DETENT LEVER
4. WIRE HARNESS CLIP
5. T.V. LEVER AND BRACKET

12. Install [wiring harness](#) clips, filter retaining clip, manual spring assembly, wire retaining washer and remaining [valve body](#) to [case](#) attaching bolts. Torque attaching bolts to **8 ft lbs** .
13. Install O-ring seal onto the electrical connector, then the electrical connector into the [case](#).
14. Install O-ring seal on the solenoid assembly.
15. Install solenoid assembly into [case](#), then two solenoid attaching bolts. Torque bolts to **8 ft lbs** .
16. Correctly route and connect solenoid assembly wiring. The wire connectors are color coded to correspond to the information in the wiring

diagram. On switches which take two connectors, the terminals are reversible. Refer to **Diagrams / Electrical / Control Valve Routing Diagrams** . See: [Diagrams\Electrical\Powertrain Management\System Diagram\Automatic Transmission\Transaxle Controls\With 700-R4 Automatic Transmission](#)

17. Install parking bracket and bracket attaching bolts, then torque bolts to **18 ft lbs** .

18. Install oil Passage cover and cover attaching bolts then torque attaching bolts to **8 ft lbs** .



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19. Install 1-2 accumulator piston seal onto the 1-2 accumulator piston.
 20. Install 1-2 accumulator piston into the 1-2 accumulator cover and pin assembly. Ensure three legs on piston face up toward case when installed
 21. Install 1-2 accumulator spring onto the piston.
 22. Install 1-2 accumulator cover and pin assembly onto case, torque attaching bolts to **8 ft lbs** .
 23. Install O-ring seal onto oil filter, then the oil filter.
 24. Install oil pan gasket, then the chip magnet into oil pan.
 25. Install oil pan and pan attaching bolts, then torque bolts to **12 ft lbs** .