4. Install the special tool.

5. Using the special tool, install the valve body separator plate gaskets and valve body separator plate.
   1. Install a new valve body separator plate gasket.
   2. Install the valve body separator plate.
   3. Install a new valve body separator plate gasket.

6. Using the special tool, install the main control valve body.

7. Using the special tool, install the accumulator body separator plate and gaskets.
   1. Install a new accumulator body separator plate gasket.
   2. Install the accumulator body separator plate.
   3. Install a new accumulator body separator plate gasket.

8. Using the special tool, install the accumulator body assembly.
9. Starting with the bolts in the middle and working outward, install the accumulator body transfer plate.
   • Tighten to 12 Nm (9 lb-ft).

10. Starting with the bolts in the middle and working outward, install the main control valve body to transfer plate and install the detent spring.
    • Tighten to 12 Nm (9 lb-ft).

11. Install a new pressure tap plate gasket.

12. Install the pressure tap plate and bolts.
    • Tighten to 8 Nm (71 lb-in).

13. **NOTE:** Match the solenoid valve body gasket to passages.

    Install the solenoid valve body.

    1. Install the solenoid valve body gasket.
2. Install the solenoid valve body.
3. Install the 2 solenoid valve body bolts.
   ♦ Tighten to 10 Nm (89 lb-in).

SECTION 307-01A: Automatic Transaxle/Transmission — CD4E
DISASSEMBLY AND ASSEMBLY OF SUBASSEMBLIES

Procedure revision date: 03/29/2005

Transaxle Case

Special Tool(s)

<table>
<thead>
<tr>
<th>Tool Number</th>
<th>Tool Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>307-240</td>
<td>Installer, Lube Tube Fluid Seal</td>
</tr>
<tr>
<td>T91P-76085-A</td>
<td>Installer, Lube Tube Fluid Seal</td>
</tr>
<tr>
<td>307-286</td>
<td>Remover/Installer, Needle Bearing</td>
</tr>
<tr>
<td>T94P-77000-E1</td>
<td>Remover/Installer, Needle Bearing</td>
</tr>
<tr>
<td>307-287</td>
<td>Remover/Installer Servo Plug</td>
</tr>
<tr>
<td>T94P-77000-ER2</td>
<td>Remover/Installer Servo Plug</td>
</tr>
<tr>
<td>307-097</td>
<td>Installer, Throttle Shaft Fluid Seal</td>
</tr>
<tr>
<td>T81P-70337-A</td>
<td>Installer, Throttle Shaft Fluid Seal</td>
</tr>
<tr>
<td>205-098</td>
<td>Drawbar, Rear Axle</td>
</tr>
<tr>
<td>T75T-1176-A</td>
<td>Drawbar, Rear Axle</td>
</tr>
<tr>
<td>307-307</td>
<td>Installer, Lube Tube</td>
</tr>
<tr>
<td>T94P-77000-U2</td>
<td>Installer, Lube Tube</td>
</tr>
</tbody>
</table>

Disassembly

1. Remove and discard the final drive lube tube.

2. Using the special tool, remove and discard the final drive lube tube seal.

3. Remove the parking pawl ratchet spring.
4. Remove the manual control lever outer assembly.

5. Remove the manual control lever shaft assembly.

6. Remove the parking pawl shaft retainer and bolt.

7. Remove the parking pawl shaft.

8. Remove the parking pawl assembly.
   1. Remove the parking pawl.
   2. Remove the parking pawl return spring.
9. **CAUTION: Do not damage the transaxle case bore during seal removal.**

   Remove and discard the manual control lever seal.

10. Remove the manual valve actuator rod (manual valve link).

11. **CAUTION: Do not damage the transaxle case sealing surface.**

   Remove and discard the manual valve detent lever shaft retaining pin.

12. **CAUTION: Do not damage the transaxle case sealing surface.**

   **NOTE:** There are 2 retaining pins, one on either side of the manual valve detent lever.

   Remove the manual valve detent lever shaft retaining pin.

13. Remove the manual valve detent lever and shaft assembly.
1. Pull the manual valve detent lever and manual valve detent lever shaft from the transaxle case.
2. Lift the manual valve detent lever from the transaxle case.

14. **CAUTION:** Do not damage the seal bore in the case during seal removal.

   Remove and discard the manual control seal.

15. If a new case is being installed, remove the line pressure port plug.

16. If a new case is being installed, remove and discard the cooler tube fitting.

17. **NOTE:** The driven sprocket bearing No. 18 can only be installed new once. If the bearing has been installed new once before, a new transaxle case must be used.

   As necessary, remove the No. 18 driven sprocket bearing assembly from transaxle case.

   1. Install the special tool into the transaxle.
   2. Position the special tool.
   3. Remove the bearing.
18. Using the special tools, remove the No. 18 driven sprocket bearing assembly.
   1. Position the special tool.
   2. Position the special tool.
   3. Remove the No. 18 driven sprocket bearing.

19. ▲ WARNING: In order to avoid injury, eye protection should be worn when cleaning components with compressed air. Failure to follow these instructions can result in personal injury.

   Clean all components with a suitable solvent and use moisture-free compressed air to dry all parts and clean fluid passages. Check the following before assembling:
   - Final drive lubrication tube for damage
   - Manual control linkage for damage or wear
   - Case mating surfaces for nicks or deformation
   - Bearing wear
   - Support area wear

Assembly

1. NOTE: The driven sprocket bearing No. 18 can only be installed new once. If the bearing has been installed new once before, a new transaxle case must be used.

   As necessary, install the No. 18 driven sprocket bearing into the transaxle case.
   1. Position the special tool.
   2. Position the special tool.
   3. Install new bearing.

2. ▲ CAUTION: Do not lubricate the outer surface of the No. 18 driven sprocket bearing assembly.
NOTE: The No. 18 driven sprocket bearing must be installed with the lettering on the needle bearing surface facing toward the needle bearing replacer.

Using the special tools, install the No. 18 driven sprocket bearing assembly by pressing it into the transaxle case.

1. Install the bearing on the special tool.
2. Position the special tool.
3. Install the No. 18 driven sprocket bearing.

3. Install the cooler tube fitting.
   • Tighten to 40 Nm (30 lb-ft).

4. Install the line pressure port plug.
   • Tighten to 24 Nm (18 lb-ft).

5. Using the special tool, install a new manual control seal.

6. Install the manual valve detent lever assembly and the manual valve detent lever shaft assembly.
   1. Position the manual valve detent lever into the transaxle case.
   2. Install the manual valve detent lever shaft into the transaxle case and lever.
7. Install a new manual shaft retaining pin.

8. **CAUTION:** Do not allow the manual shaft retaining pin to contact the transaxle case.

   Install a new manual valve detent lever shaft retaining pin.
   - Verify that the manual valve detent lever shaft rotates without binding.

9. Install the manual valve actuator rod (manual valve link).

10. Install the parking pawl assembly.
    1. Install the parking pawl return spring.
    2. Install the parking pawl.

11. Install the parking pawl shaft.
12. Install the parking pawl shaft retainer and bolt.
   • Tighten to 8 Nm (71 lb-in).

13. **NOTE:** Lubricate the manual control lever inner shaft prior to installation.

Install the manual control lever shaft assembly.
   • Tighten to 74 Nm (55 lb-ft).

14. **NOTE:** Verify that the actuating cam rotates freely.

Install the parking pawl ratchet spring.

15. **NOTE:** Hand-tighten the manual control lever bolt; it will be tightened after linkage adjustment.

Install the manual control lever outer assembly and bolt.

16. Using the special tool, install a new final drive lube tube seal.