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**Fig. 62 Rear axle housing assembly—typical**

retaining nuts from each backing plate and wire the backing plate to the underbody.

8. If equipped with disc brakes, remove the disc brake adapter bracket, bolts and J-nuts. Remove the 4 retaining nuts from each adapter and wire the adapters to the underbody.

9. Mark the position of the driveshaft yoke on the axle companion flange. Disconnect the driveshaft at the companion flange and wire it to the underbody.

10. Support the axle housing with jackstands. Disengage the brake line from the clips that retain the line to the axle housing.

11. Disconnect the vent from the rear axle housing.

12. If equipped with air springs, remove them according to the procedure in Section 8.

13. Disconnect the lower shock absorber studs from the mounting brackets on the axle housing.

14. Remove the nuts and bolts and disconnect the upper arms from the mountings on the axle housing ear brackets.

15. Lower the axle housing assembly until the springs are released and lift out the springs.

16. Remove the nuts and bolts and disconnect the suspension lower arms at the axle housing.

17. Lower the axle housing and remove it from the vehicle.

**To install:**

18. Position the axle housing under the vehicle and raise the axle with a hoist or jack. Connect the lower suspension arms to their mounting brackets on the axle housing. Do not tighten the bolts and nuts at this time.

19. Reposition the rear springs.

20. Raise the housing into position.

21. Connect the upper arms to the mounting ears on the housing. Tighten the nuts and bolts to 103–133 ft. lbs. (140–180 Nm). Tighten the lower arm bolts and nuts to 103–133 ft. lbs. (140–180 Nm).

22. Install the axle vent and install the brake line to the clips that retain the line to the axle housing. Secure the brake junction block to the housing cast boss.

23. Connect the air spring lines as described in Section 8.

24. If equipped with drum brakes, install the brake backing plates on the axle housing flanges. If equipped with disc brakes, install the disc brake adapters and tighten the nuts to 20–29 ft. lbs. (27–40 Nm).

25. Install the disc brake adapter brackets, bolts and J-nuts. Tighten to 20–39 ft. lbs. (27–54 Nm).

26. Connect the lower shock absorber studs to the mounting bracket on the axle housing.

27. Connect the driveshaft to the companion flange and tighten the bolts and nuts to 70–95 ft. lbs. (95–130 Nm).

28. Slide the rear axle shafts into the housing until the splines enter the side gear. Push the axle shafts inward and install the C-lock at the end of each shaft splined. Pull the shafts outboard until the C-lock enters the recess in the side gears.

29. Install the pinion shaft. Apply locking compound to the pinion shaft lock bolt. Install and tighten to 15–30 ft. lbs. (20–41 Nm).

30. Install the rear brake drums or disc brake rotors and calipers.

31. Install the anti-lock brake speed sensor, if equipped.

32. Install the rear carrier cover using new silicone sealer. Tighten to 28–35 ft. lbs. (38–47 Nm).

33. Add rear axle lubricant to the carrier to a level 1/4–9/16 in. below the bottom of the fill hole. If equipped with limited slip, add friction modifier C8AZ-19B564-A or equivalent. Install the filler plug and tighten to 15–30 ft. lbs. (20–41 Nm).

34. Install the wheel and tire assemblies and lower the vehicle. Road test.

## AXODE (AX4S) TORQUE SPECIFICATIONS

| Components   | English          | Metric       |
|--|------------------|--------------|
| Pump cover-to-pump body bolts                        | 7-9 ft. lbs.     | 9-12 Nm      |
| Filler tube-to-case retaining nut                    | 7-9 ft. lbs.     | 9-12 Nm      |
| Governor cover-to-case bolts                         | 7-9 ft. lbs.     | 9-12 Nm      |
| Park/Neutral position switch-to-case retaining bolts | 7-9 ft. lbs.     | 9-12 Nm      |
| Manual lever-to-manual shaft nut                     | 12-16 ft. lbs.   | 16-22 Nm     |
| Differential brace-to-case retaining bolts           | 25-35 ft. lbs.   | 55-68 Nm     |
| Oil pan-to-case retaining bolts                      | 8-11 ft. lbs.    | 13-15 Nm     |
| Speedometer cover-to-case bolts                      | 7-9 ft. lbs.     | 9-12 Nm      |
| Transaxle-to-engine bolts                            | 55-68 ft. lbs.   | 41-50 Nm     |
| Stabilizer U-Clamp-to-bracket bolt                   | 23-29 ft. lbs.   | 30-40 Nm     |
| Brake hose routing clip bolt                         | 8 ft. lbs.       | 11 Nm        |
| Tie rod-to-knuckle bolt                              | 23-35 ft. lbs.   | 31-47 Nm     |
| Manual cable bracket bolt                            | 10-20 ft. lbs.   | 14-27 Nm     |
| Starter bolt   | 30-40 ft. lbs.   | 41-54 Nm     |
| Dust cover bolt                                      | 7-9 ft. lbs.     | 9-12 Nm      |
| Torque converter-to-flywheel bolt                    | 23-29 ft. lbs.   | 31-53 Nm     |
| Vehicle speed sensor bolt                            | 31-39 inch. lbs. | 3.4-4.5 Nm   |
| Subframe bolts                                       | 55-75 ft. lbs.   | 75-102 Nm    |
| Lower control arm pinch bolt                         | 40-53 ft. lbs.   | 53-72 Nm     |
| Power steering line bracket bolts                    | 40-50 inch lbs.  | 4.5-5.7 Nm   |
| Steering gear bolts                                  | 85-100 ft. lbs.  | 115-135 Nm   |
| Engine mount bolts                                   | 60-85 ft. lbs.   | 81-116 Nm    |
| LH engine support bolts                              | 40-55 ft. lbs.   | 54-75 Nm     |
| Lug nuts   | 80-105 ft. lbs.  | 108-144 Nm   |
| Front hub retaining nut                              | 180-200 ft. lbs. | 245 - 270 Nm |
| Control arm-to-steering knuckle nut                  | 40-55 ft. lbs.   | 54-75 Nm     |
| Stabilizer link-to-stabilizer bar nuts               | 35-48 ft. lbs.   | 47-65 Nm     |
| Ride height sensor bracket retaining bolts           | 8-12 ft. lbs.    | 11-16 Nm     |