

DRIVE TRAIN

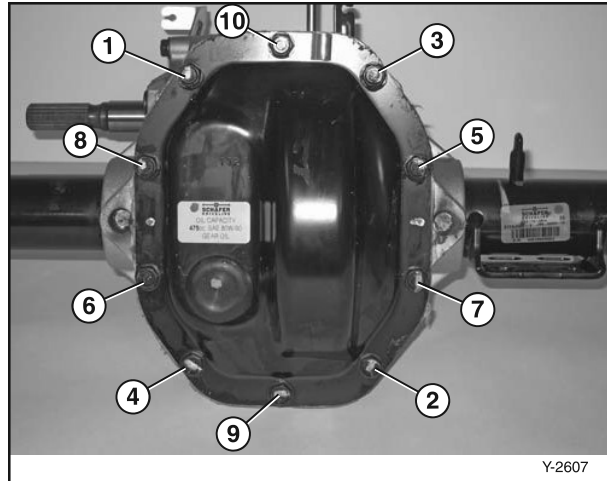


Figure 6-62

14. Install the differential cover and tighten the bolts in order from 1 to 10 to specification.

Specification:

Differential Cover Bolts

Initial Torque

20 N·m (2.0 m·kg; 14.8 lb-ft)

Final Torque

28 N·m (2.9 m·kg; 20.7 lb-ft)

15. Install the axle shafts.
16. Install the rear axle. See *Install the Rear Axle – Carburetor Models* on page 6-16.
17. Install rear axle gear oil. See *Check the Axle Oil Level* on page 3-40.

TRANSMISSION – EFI MODELS

Axle Shafts

1. Remove the wheels.

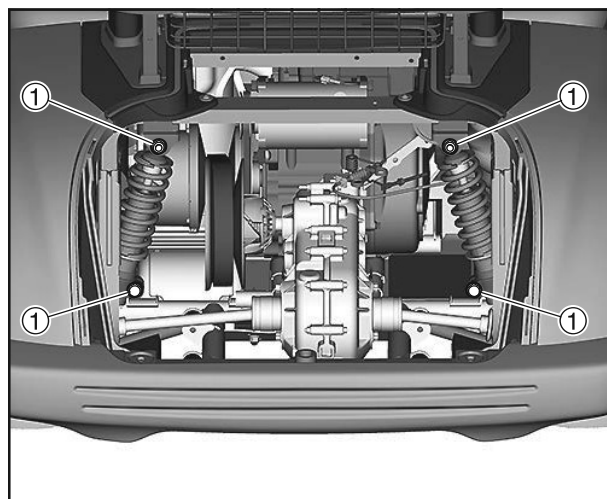


Figure 6-63

TRANSMISSION – EFI MODELS

2. Remove the bolts (Figure 6-63, (1)) of the rear shock absorber. Remove the rear shock absorber.

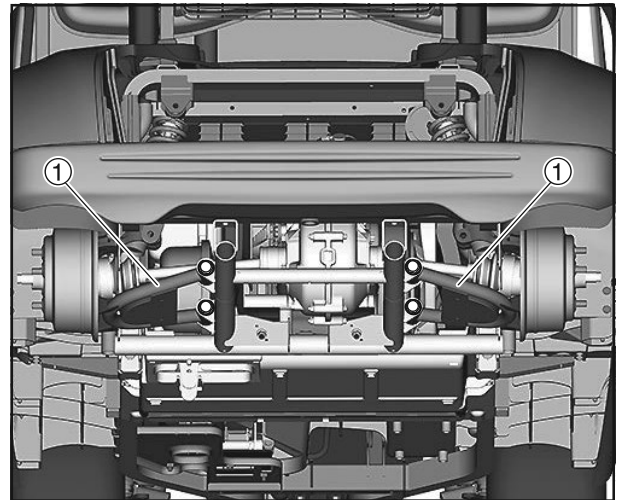


Figure 6-64

3. Remove the lower arm (Figure 6-64, (1)). See *REAR SUSPENSION COMPONENTS – EFI MODELS* on page 7-48.

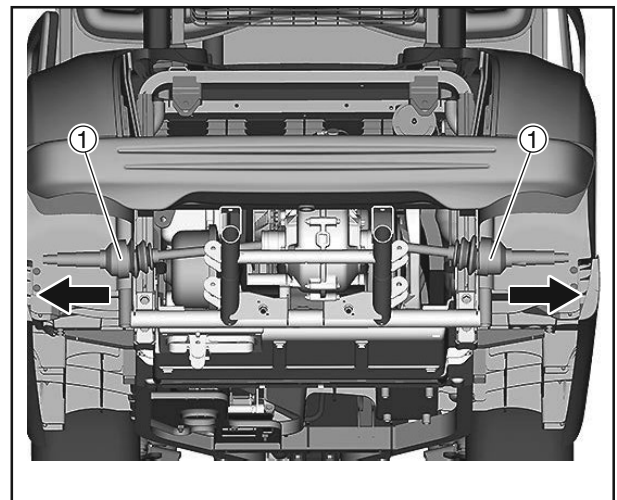


Figure 6-65

4. Pull out the drive shaft (Figure 6-65, (1)).

Remove the Transmission

1. Park the vehicle on a flat surface.
2. Block the front wheels.
3. Remove the seat.
4. Disconnect the negative (-) battery cable.
5. Remove the drive belt. See *Replace the Drive Belt* on page 3-10.

6. Remove secondary sheave assembly. See *SECONDARY SHEAVE ASSEMBLY* on page 6-10.
7. Remove rear access panel.
8. Raise the rear of the vehicle and lower onto jack stands under the rear frame.
9. Place a hydraulic jack under the Jack uppoint to support it.
10. Remove the rear wheels.

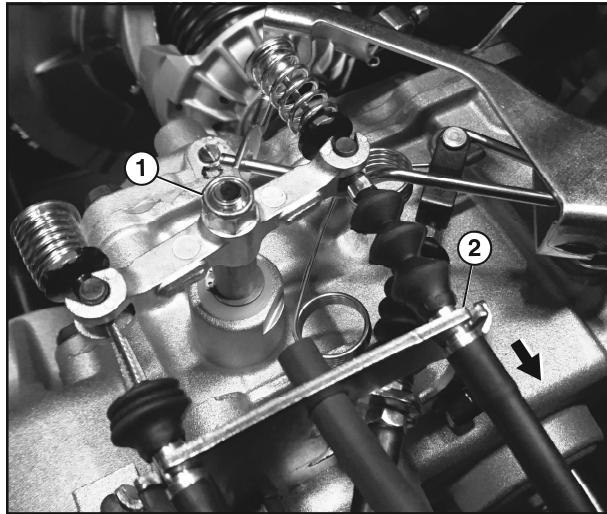


Figure 6-66

11. Remove nut (**Figure 6-66, (1)**) from the shifter shaft.
Slide shift lever off the shaft.
12. Pull the cables back out of the cast bracket on the transmission and slide the inner cables out of the slot (**Figure 6-66, (2)**).
13. Move shift lever and cables toward the front of car away from transmission.

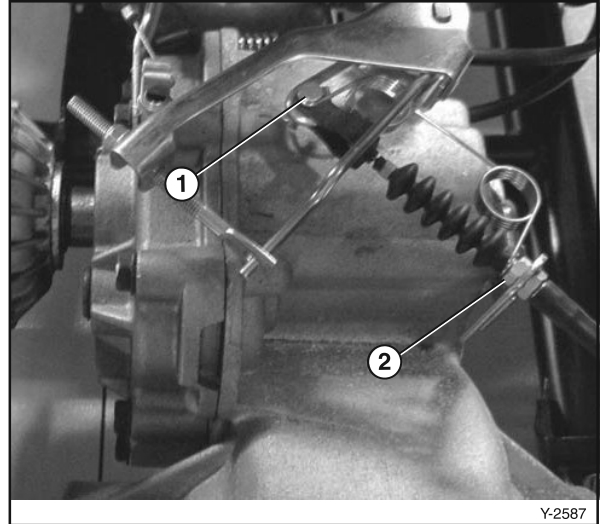


Figure 6-67

14. Remove the clevis pin (**Figure 6-67, (1)**) and disconnect the throttle cable from the speed limiter.
15. Loosen the jam nuts (**Figure 6-67, (2)**) and remove the throttle cable from the bracket.

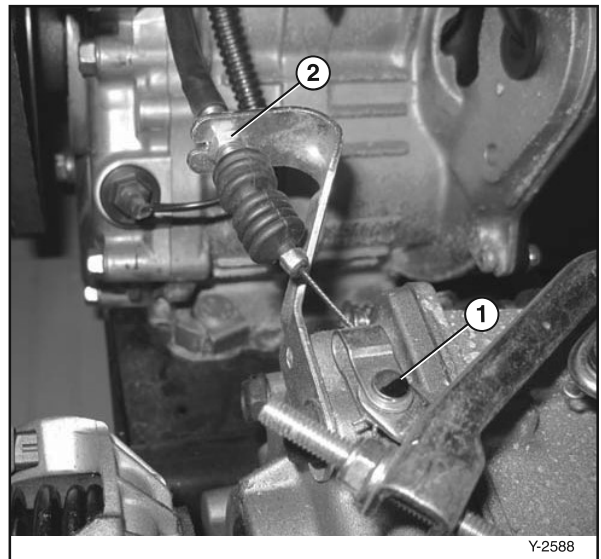


Figure 6-68

16. Remove the clevis pin (**Figure 6-68, (1)**) and disconnect the throttle cable.
17. Loosen the jam nuts (**Figure 6-68, (2)**) and remove the throttle cable from the bracket.

18. Remove the drive shaft. *See Axle Shafts on page 6-26.*

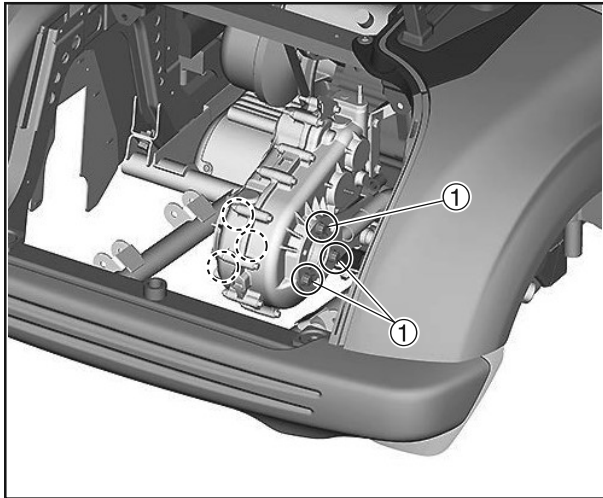


Figure 6-69

19. Remove six mounting bolts (**Figure 6-69, (1)**).
20. With the help of an assistant, lift up and slide the transmission from vehicle.

Install the Transmission – EFI Models

Installation is done in the reverse of removal with the following notes:

- Tighten all fasteners to the specified torque.
- Adjust the shift cables. *See Adjust the Shift Cable on page 3-11.*
- Adjust the brake cable.
- Adjust throttle cables. *See Adjust the Throttle Cables – EFI Models on page 3-23.*

Specification:

Shift Cable Equalizer Bracket Locknut Torque

3.5–5.5 N·m (0.4–0.6 m·kg; 31–49 lb-in.)

Rear Transmission Bolt Torque

55–65 N·m (5.5–6.5 m·kg; 40–47 lb-ft)

Rear Shock Absorber Bolt Torque

52–58 N·m (5.2–5.8 m·kg; 38–43 lb-ft)

Suspension Lower Arm Bolts Torque

48–58 N·m (4.8–5.8 m·kg; 35–42 lb-ft)

Wheel Nut Torque

88 N·m (8.8 m·kg; 65 lb-ft)

Rear Hub Flange Nuts Torque

220–290 N·m (22–29 m·kg; 159–210 lb-ft)

Disassemble the Transmission

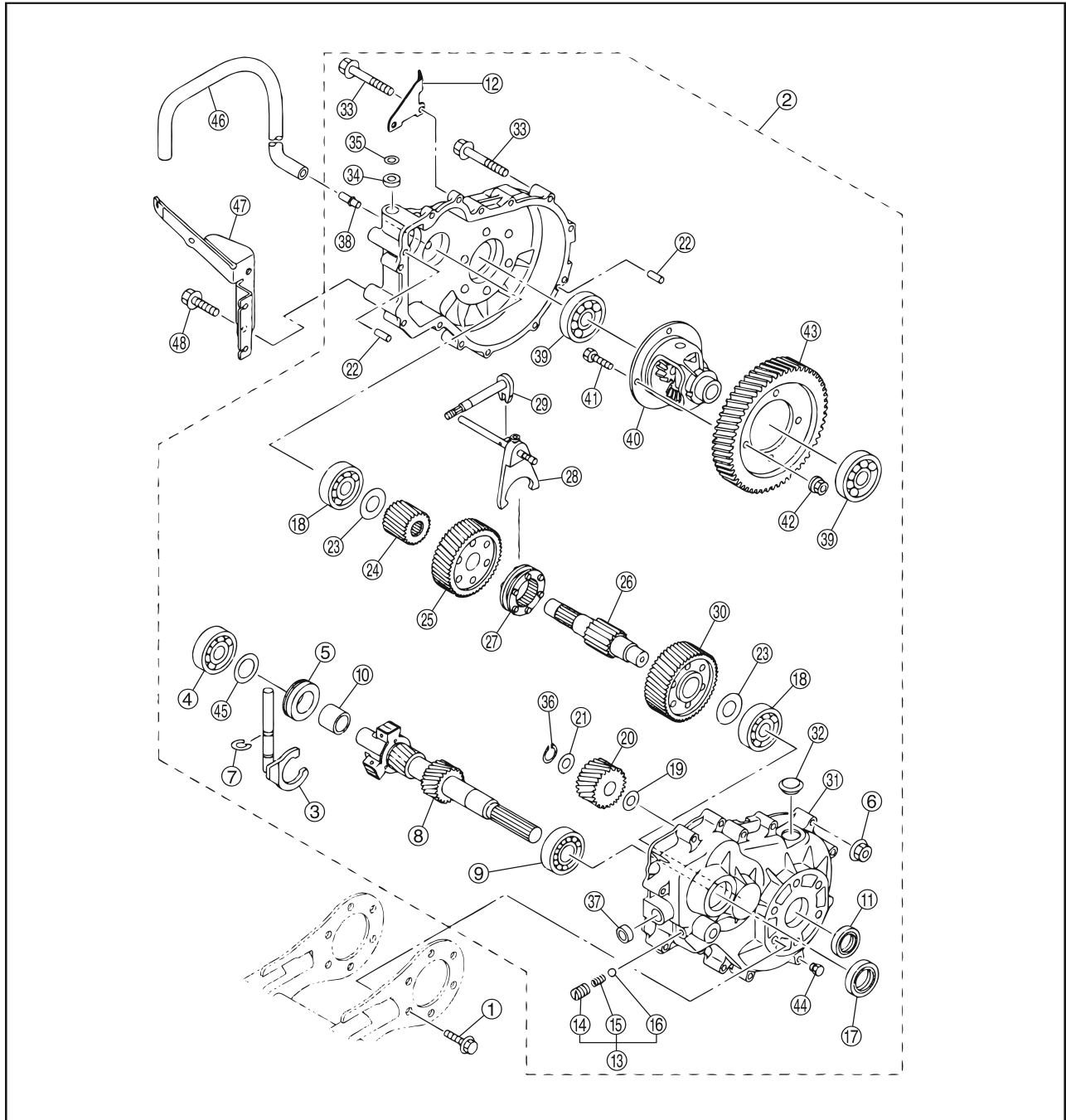


Figure 6-70

DRIVE TRAIN

TRANSMISSION – EFI MODELS

-
- | | |
|---------------------------|---------------------------------|
| 1. Flange Bolt (six used) | 25. Reverse Gear |
| 2. Transmission | 26. Counter Shaft |
| 3. Governor Lever | 27. Shift Collar |
| 4. Bearing | 28. Shift Fork |
| 5. Governor Sleeve | 29. Shift Lever |
| 6. Nut (thirteen used) | 30. Forward Gear |
| 7. Retaining Ring | 31. Case Cover |
| 8. Input Shaft | 32. Oil Check and Fill Plug |
| 9. Bearing | 33. Flange Bolt (thirteen used) |
| 10. Collar | 34. Oil Seal |
| 11. Dust Seal | 35. Washer |
| 12. Bracket | 36. Retaining Ring |
| 13. Detent Assembly | 37. Oil Seal |
| 14. Set Screw | 38. Vent Fitting |
| 15. Spring | 39. Bearing (two used) |
| 16. Ball | 40. Differential Assembly |
| 17. Oil Seal | 41. Bolt (four used) |
| 18. Bearing (two used) | 42. Nut (four used) |
| 19. Plate Washer | 43. Ring Gear |
| 20. Idler Gear | 44. Drain Plug |
| 21. Plate Washer | 45. Shim 0.76 mm (0.030 in.) |
| 22. Dowel Pin (two used) | 46. Vent Hose |
| 23. Washer (two used) | 47. Bracket |
| 24. Gear | 48. Flange Bolt (two used) |

1. Place a drain pan under the transmission case.
2. Drain the oil.
3. Remove the transmission from the car. See *TRANSMISSION – EFI MODELS* on page 6-26.

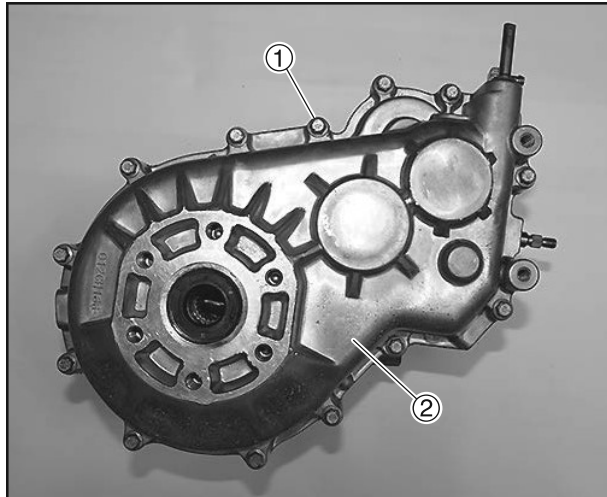


Figure 6-71

4. Remove the bolts (Figure 6-71, (1)) and nuts and remove the transmission case (Figure 6-71, (2)).

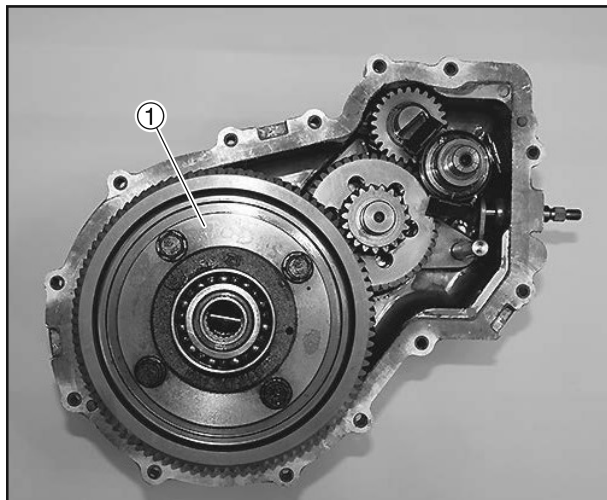


Figure 6-72

5. Remove the differential assembly with the ring gear (Figure 6-72, (1)).

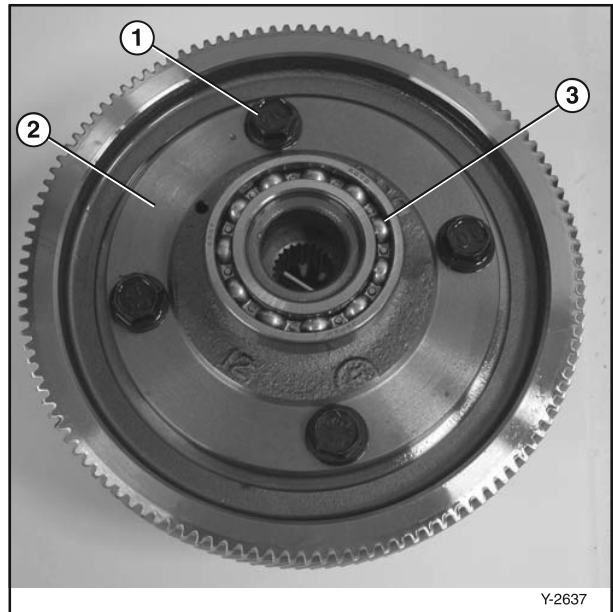


Figure 6-73

6. Remove the bolts and nuts (Figure 6-73, (1)) and remove the ring gear (Figure 6-73, (2)) from the differential assembly.
7. Inspect the bearings (Figure 6-73, (3)). They must rotate smoothly and quietly.

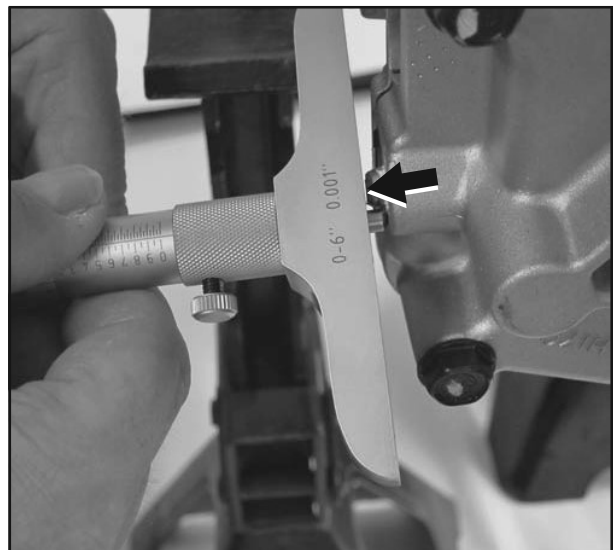


Figure 6-74

8. Measure the height that the detent set screw protrudes from the case. When installed it must be at the same height.

6

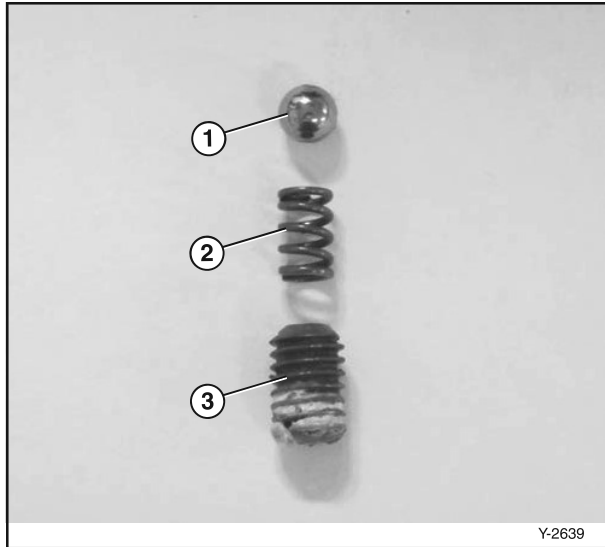


Figure 6-75

9. Remove the set screw (Figure 6-75, (3)), the spring (Figure 6-75, (2)) and the detent ball (Figure 6-75, (1)).

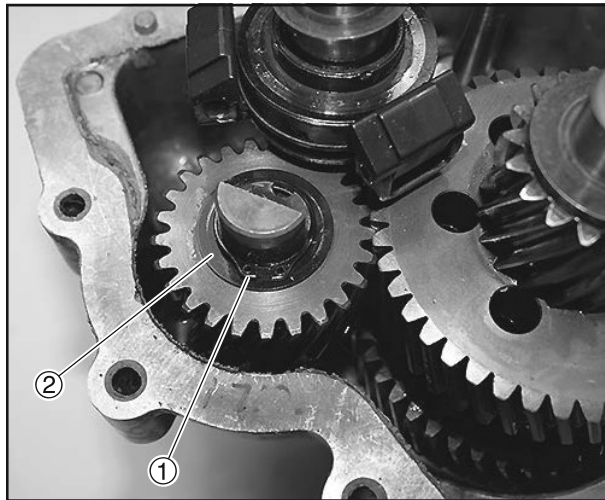


Figure 6-76

10. Remove the retaining ring (Figure 6-76, (1)) and the plate washer (Figure 6-76, (2)).

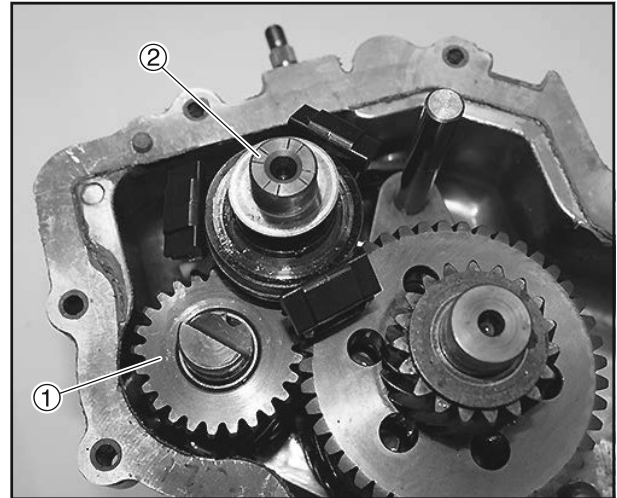


Figure 6-77

11. Remove the idler gear (Figure 6-77, (1)) and input shaft and rotate the governor shaft (Figure 6-77, (2)).
12. Inspect the gear for wear.

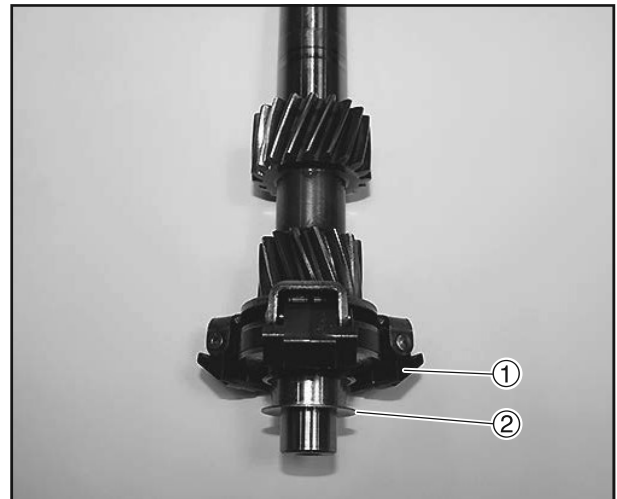


Figure 6-78

13. Inspect the weights (Figure 6-78, (1)) for the governor. Make sure they move freely.
14. Make sure the shim (Figure 6-78, (2)) is smooth on both sides.

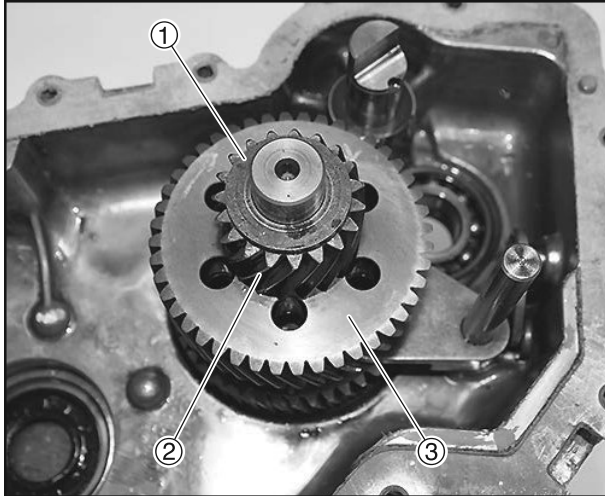


Figure 6-79

15. Remove the washer (**Figure 6-79, (1)**) and gear (**Figure 6-79, (2)**) and reverse gear (**Figure 6-79, (3)**) from the countershaft.
16. Inspect the gears for wear.

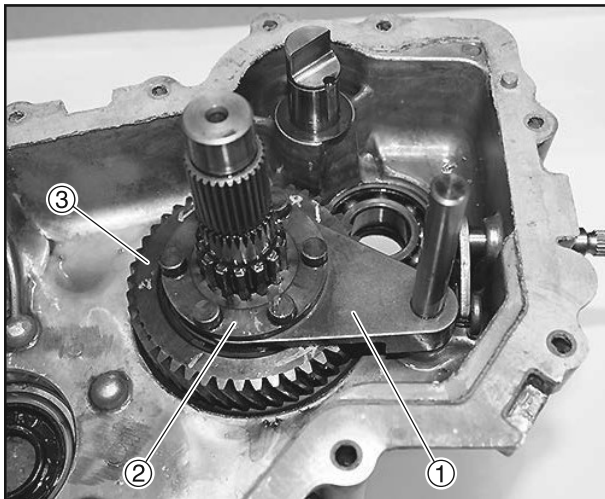


Figure 6-80

17. Remove the shift fork (**Figure 6-80, (1)**) along with the shift collar (**Figure 6-80, (2)**).
18. Remove the forward gear (**Figure 6-80, (3)**) and the countershaft.

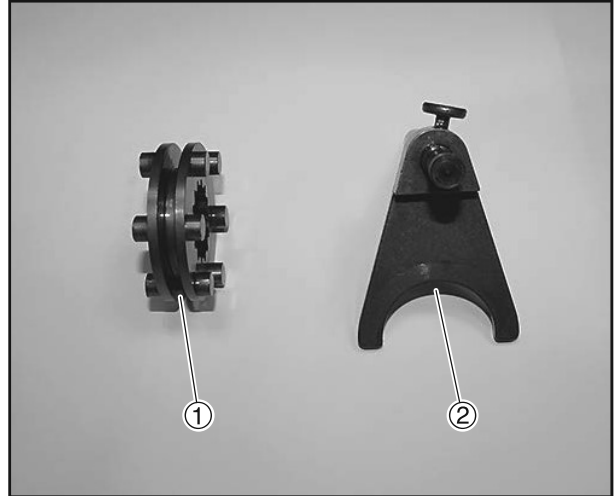


Figure 6-81

19. Inspect the shift collar (**Figure 6-81, (1)**) and the shift fork (**Figure 6-81, (2)**) for wear.

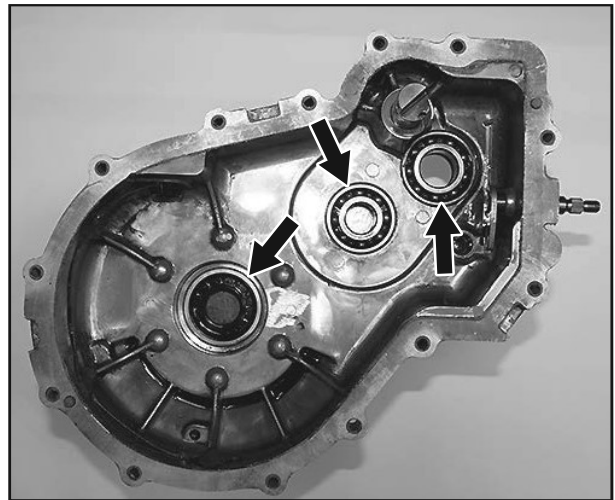


Figure 6-82

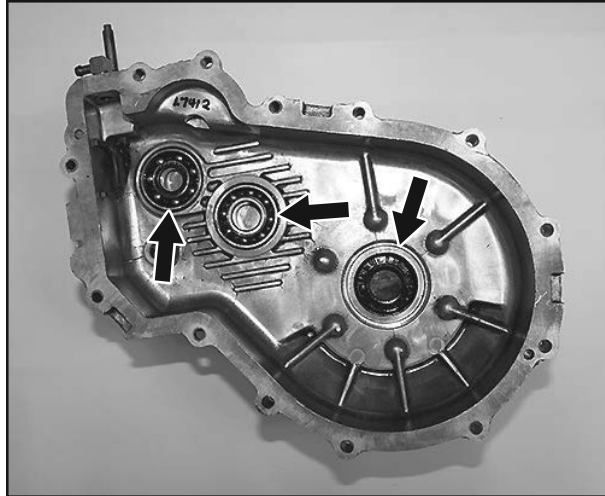


Figure 6-83

20. Inspect the bearings in the case. They must rotate smoothly.
21. Replace the oil seal for the cover.

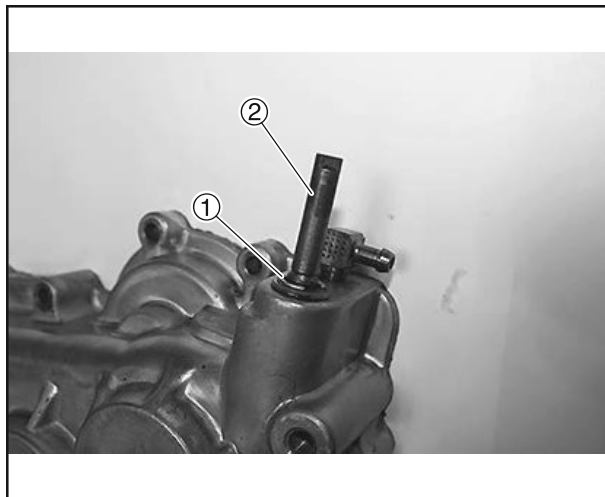


Figure 6-84

22. Remove the retaining ring (Figure 6-84, (1)) and slide the governor shaft (Figure 6-84, (2)) inside the case to remove.

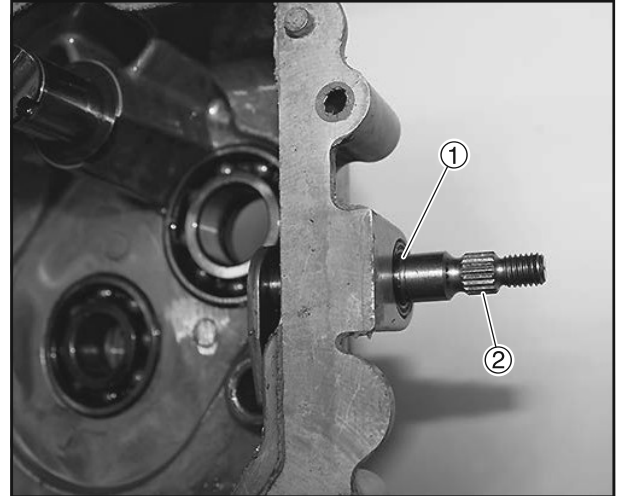


Figure 6-85

23. Remove the snap ring (Figure 6-85, (1)) and slide the shift lever (Figure 6-85, (2)) into the case to remove.

Assemble the Transmission

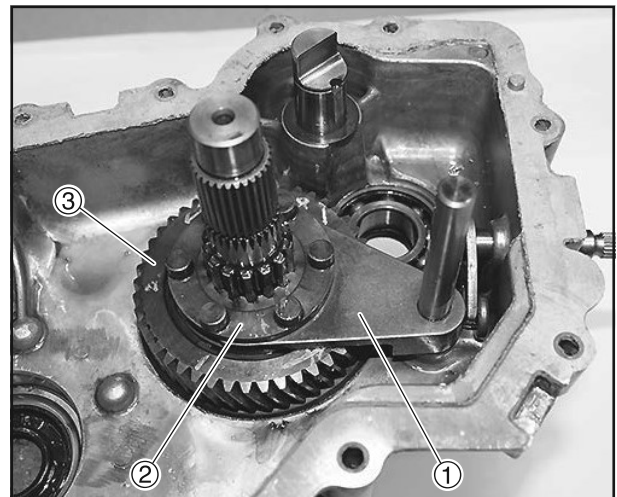


Figure 6-86

1. Install the forward gear (Figure 6-86, (3)) and the countershaft.
2. Install the shift fork (Figure 6-86, (1)) along with the shift collar (Figure 6-86, (2)).

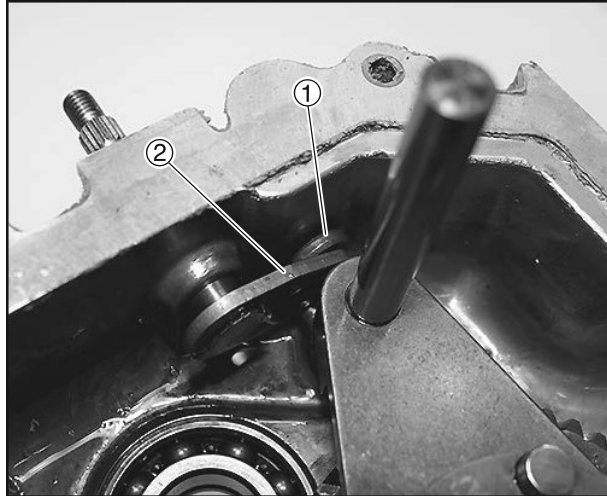


Figure 6-87

3. Install the shift fork and shift collar onto the countershaft making sure that the roll pin (Figure 6-87, (1)) on the shift fork shaft is in the groove on the shifter lever (Figure 6-87, (2)).

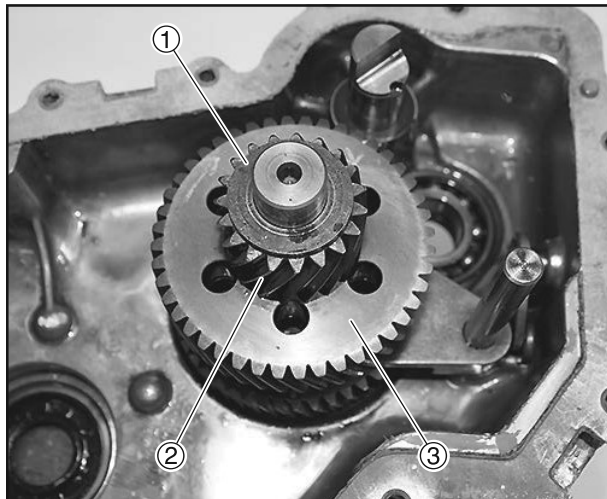


Figure 6-88

4. Install the reverse gear (Figure 6-88, (3)) and gear (Figure 6-88, (2)) and washer (Figure 6-88, (1)).

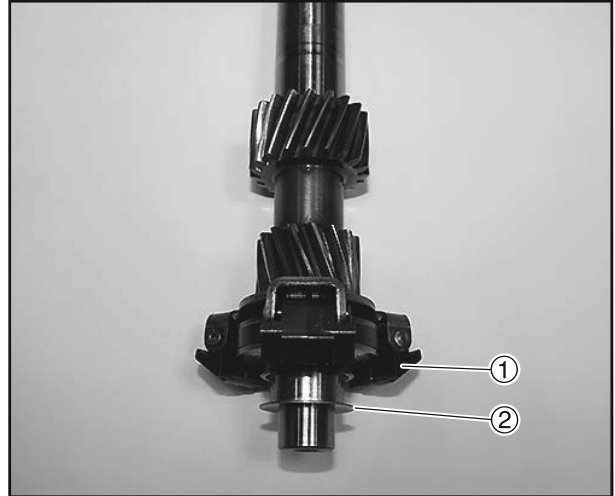


Figure 6-89

5. When installing the input shaft make sure to use the same shim (Figure 6-89, (2)) that was removed. (Figure 6-89, (1)) shows the weights.

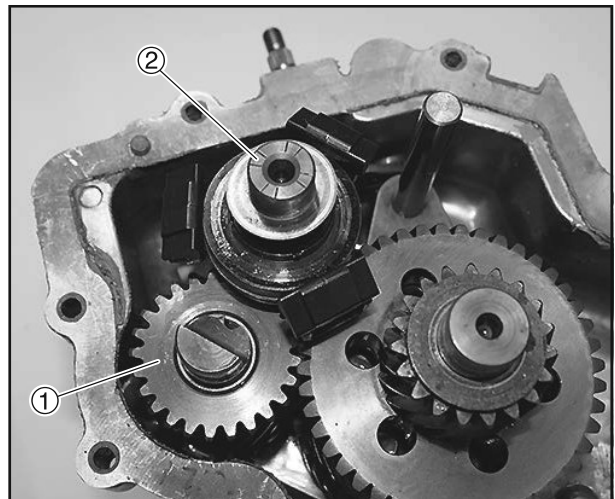


Figure 6-90

6. Install the input shaft and rotate the governor shaft (Figure 6-90, (2)) and idler gear (Figure 6-90, (1)).

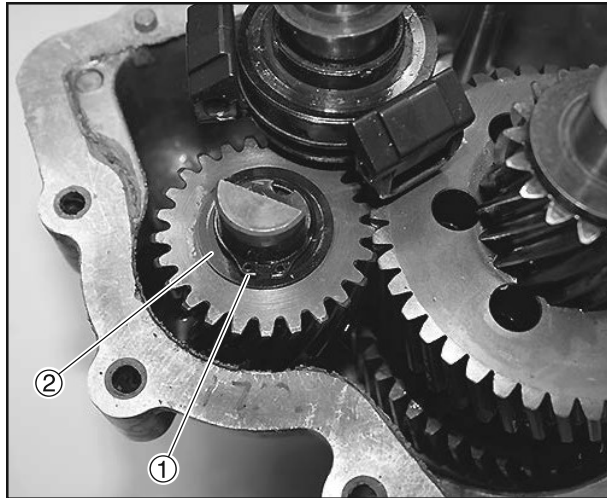


Figure 6-91

7. Install the plate washer (Figure 6-91, (2)) and retaining ring (Figure 6-91, (1)).

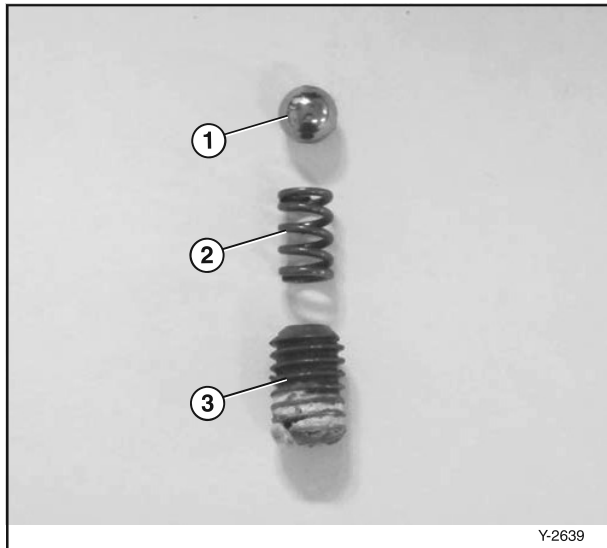


Figure 6-92

8. Install the detent ball (Figure 6-92, (1)), the spring (Figure 6-92, (2)) and the set screw (Figure 6-92, (3)).
9. Tighten the set screw to the same height that was measured before disassembly.

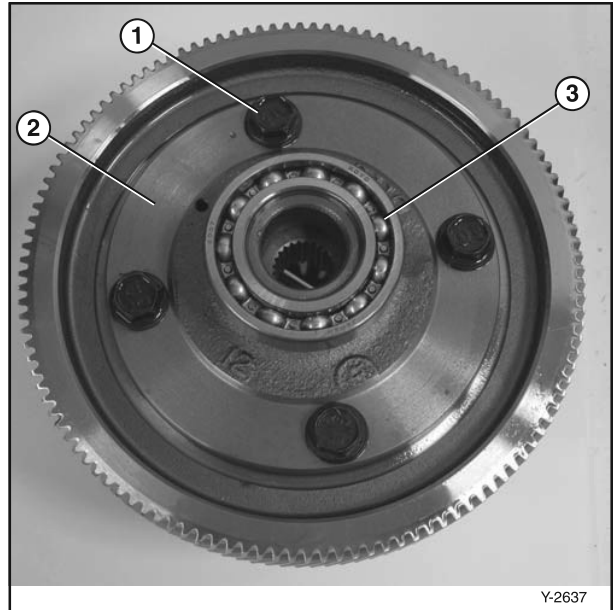


Figure 6-93

10. Install the ring gear (Figure 6-93, (2)) to the differential assembly. Tighten bolts and nuts (Figure 6-93 (1)) to specification. (Figure 6-93, (3)) shows the bearings as well.

Specification:

Ring Gear Bolts Torque

54 N·m (5.5 m·kg; 39.8 lb·ft)

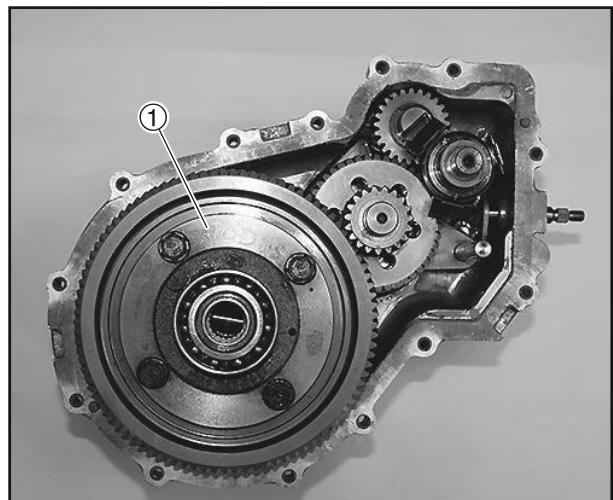


Figure 6-94

11. Install the differential assembly (Figure 6-94, (1)).
12. Clean the transmission case and the case mounting surface.
13. Apply RTV gasket sealant to the cover.

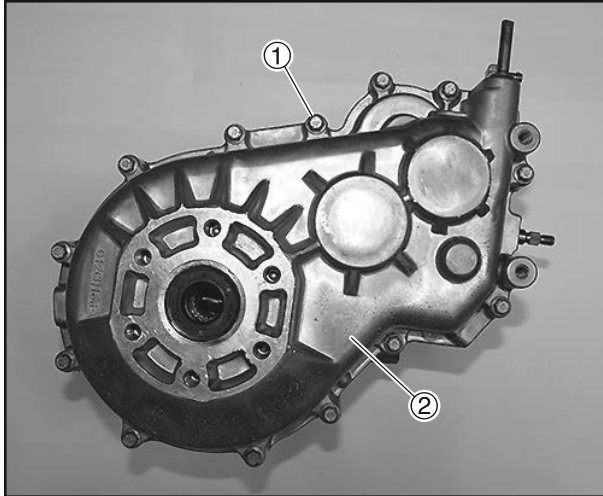


Figure 6-95

14. Install the transmission case (**Figure 6-95, (2)**) and tighten the bolts (**Figure 6-95, (1)**) and nuts.

Specification:

Transmission Case Bolts

Initial Torque

12 N·m (1.2 m·kg; 8.7 lb-ft)

15. Install the transmission.
Install the axle shafts. *See Install the Transmission – EFI Models on page 6-28.*
16. Install transmission gear oil. *See Check the Transmission Oil (EFI Models) on page 3-29.*