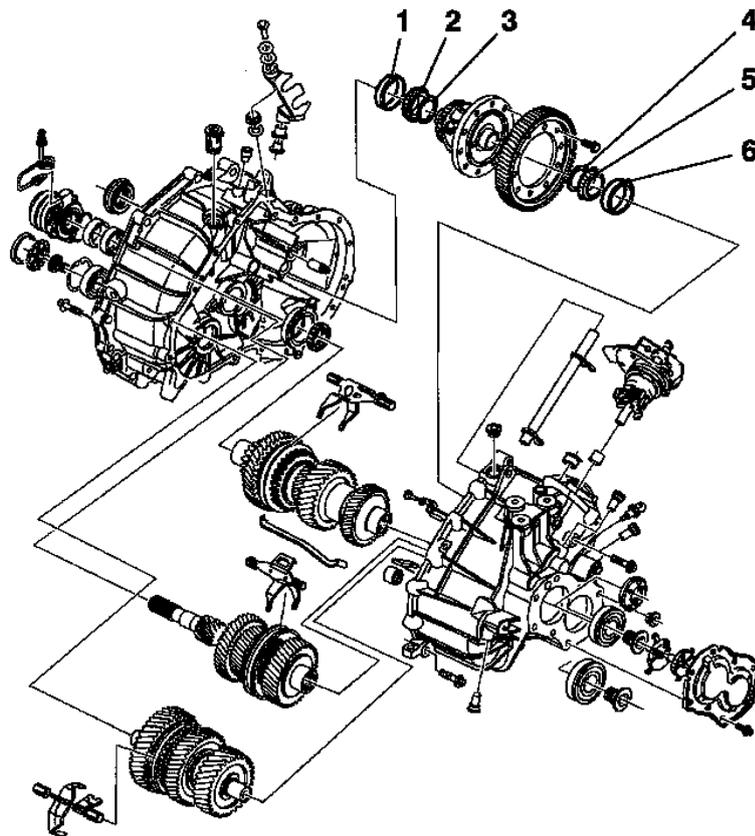


## Tapered Roller Bearings, Differential, Replace

### 1. Illustration of differential

1. Outer race of tapered roller bearing (clutch housing side)
2. Inner race of tapered roller bearing (clutch housing side)
3. Shim
4. Shim
5. Inner race of tapered roller bearing (transmission housing side)
6. Outer race of tapered roller bearing (transmission housing side)



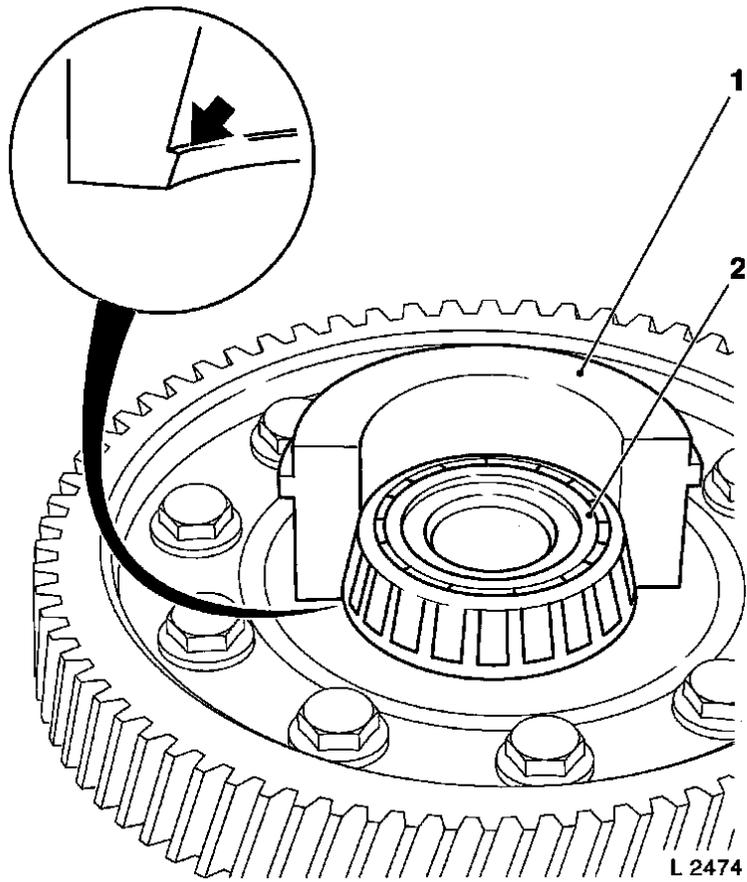
L 4229

**Important:** When replacing differential tapered roller bearings, respective outer races of tapered roller bearing in clutch and transmission housings must always be replaced. Ensure that shims under tapered roller bearings are not interchanged

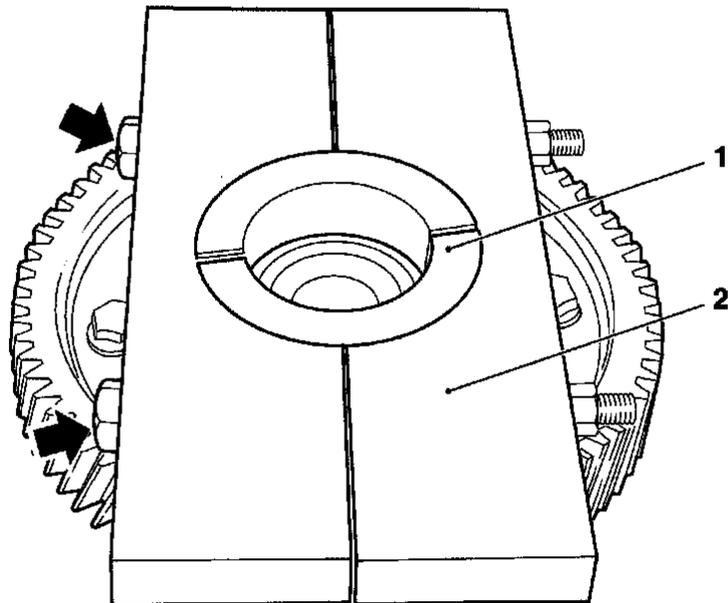
2. Remove transmission from vehicle - see operation "Transmission, Remove and Install"
3. Disassemble transmission - see operation "Transmission, Seal Completely"

**Important:** The edge (arrowed) of **KM-6118-2** (1) must engage under cage of tapered roller bearing

4. Attach **KM-6118-2** (1) to inner race (2)



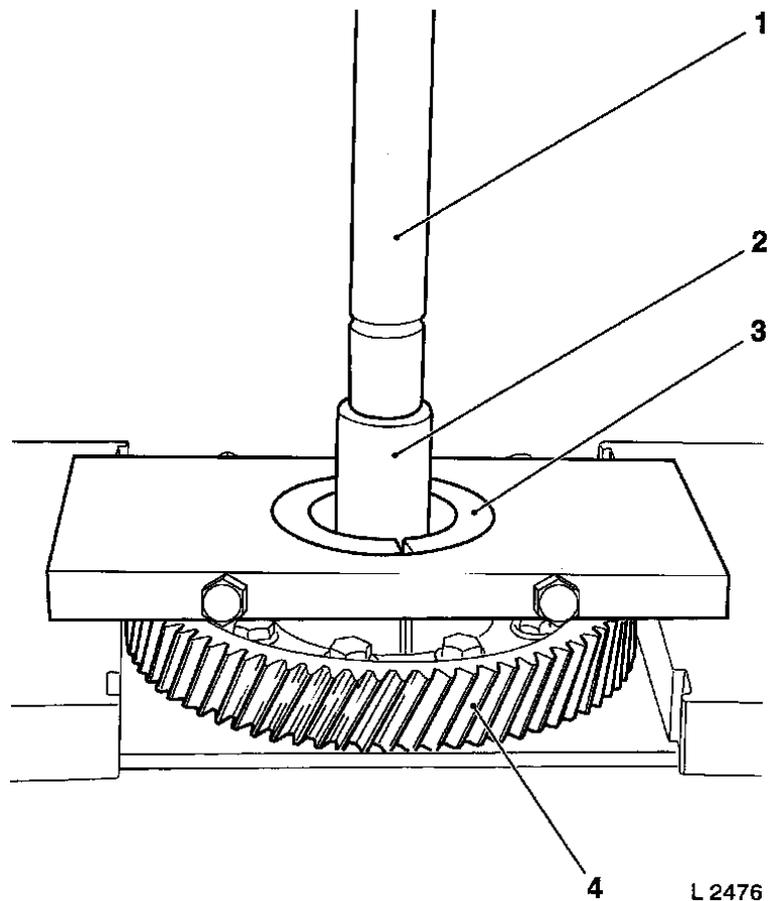
5. Attach **KM-6118-1** uniformly to **KM-6118-2 (1)**; do not tilt. Tighten bolts (arrowed)



6. Press inner race of

tapered roller bearing from differential (4) with **KM-6118** (3) in conjunction with **KM-500-5** (2) and workshop press (1)

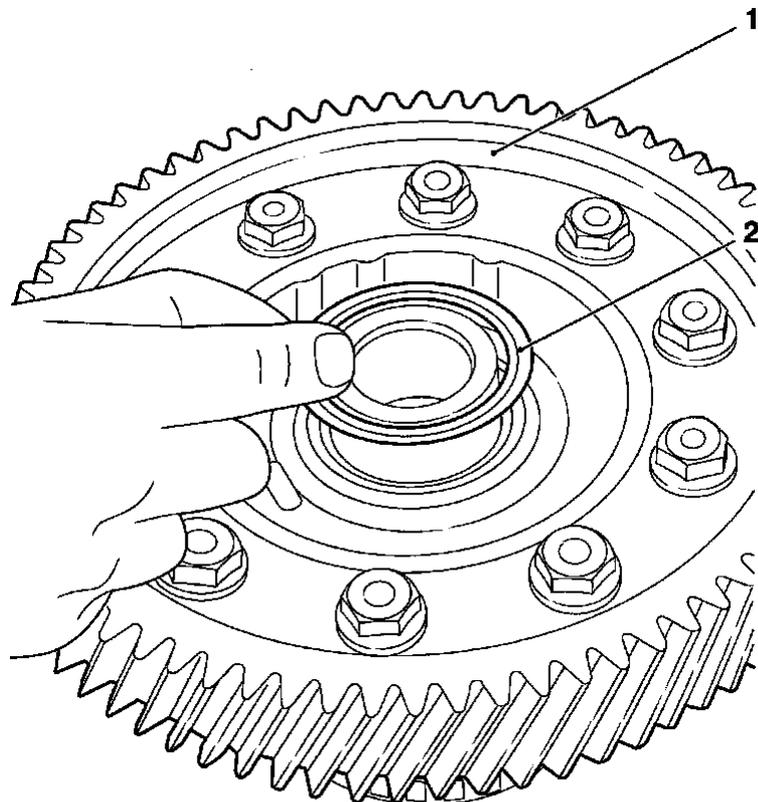
**Note:** This operation is described for inner race of tapered roller bearing in transmission housing side. Removal and installation of inner race of tapered roller bearing in clutch housing side is performed in a similar manner



7. Clean and check all parts; replace if necessary

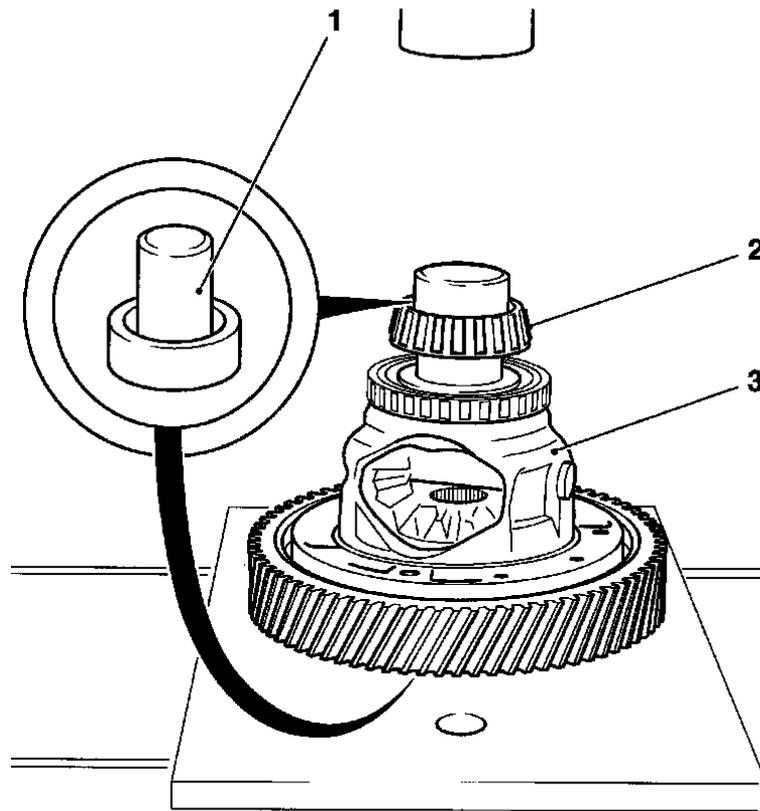
**Important:** When replacing inner races of tapered roller bearings, outer races must also always be replaced

8. When re-using old bearings, note allocation of shims (2) on differential (1)



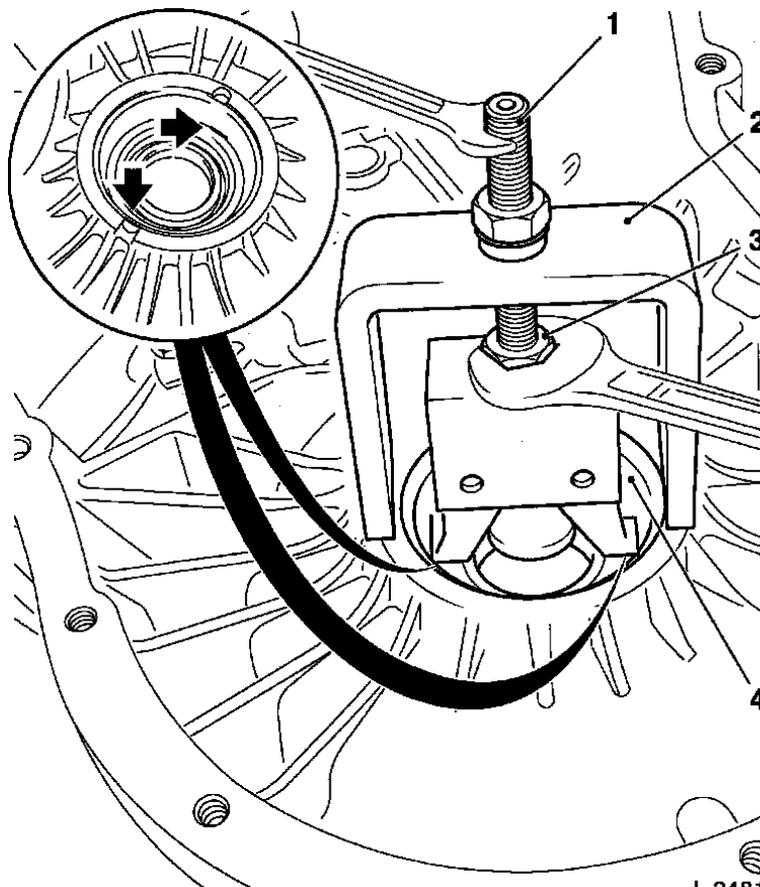
L 2477

9. Press inner race (2) flush onto differential (3) with **KM-522** (1). At same time, **KM-522** must also be positioned under differential to prevent damage to lower tapered roller bearing



L 2478

10. Insert **KM-6113** (2) in outer race (4) into recesses in transmission housing
11. Spread **KM-6113** by tightening nut (3) in bearing, at the same time, counterhold spindle (1)
- Note:** Claws of **KM-6113** must engage in grooves (arrowed) of transmission housing

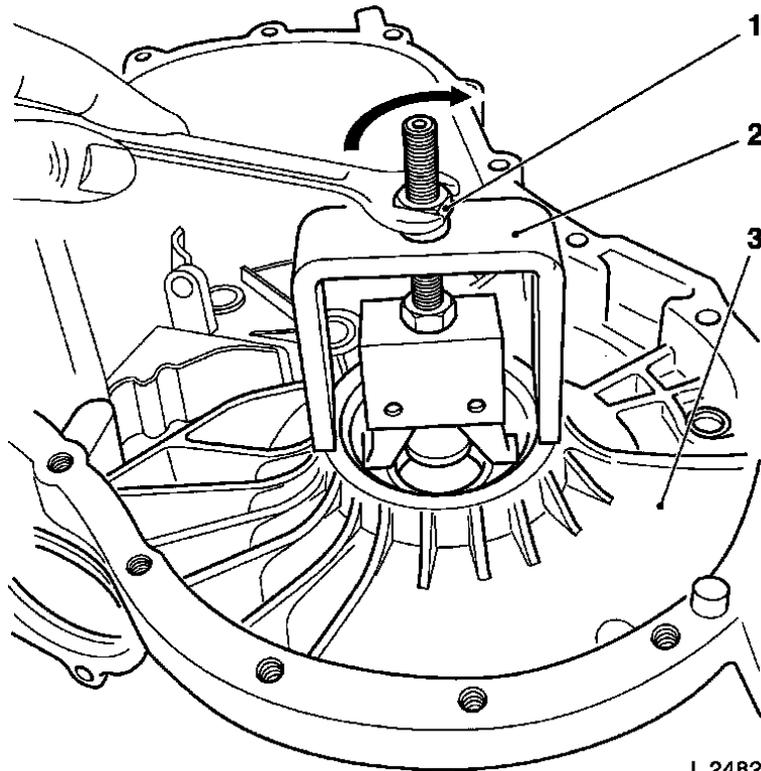


L 2481

12. Counterhold shaft of

**KM-6113** (2), then pull outer race of tapered roller bearing out of transmission housing (3) by turning nut (1)

**Note:** Removal of outer race of tapered roller bearing in clutch housing is performed in a similar manner



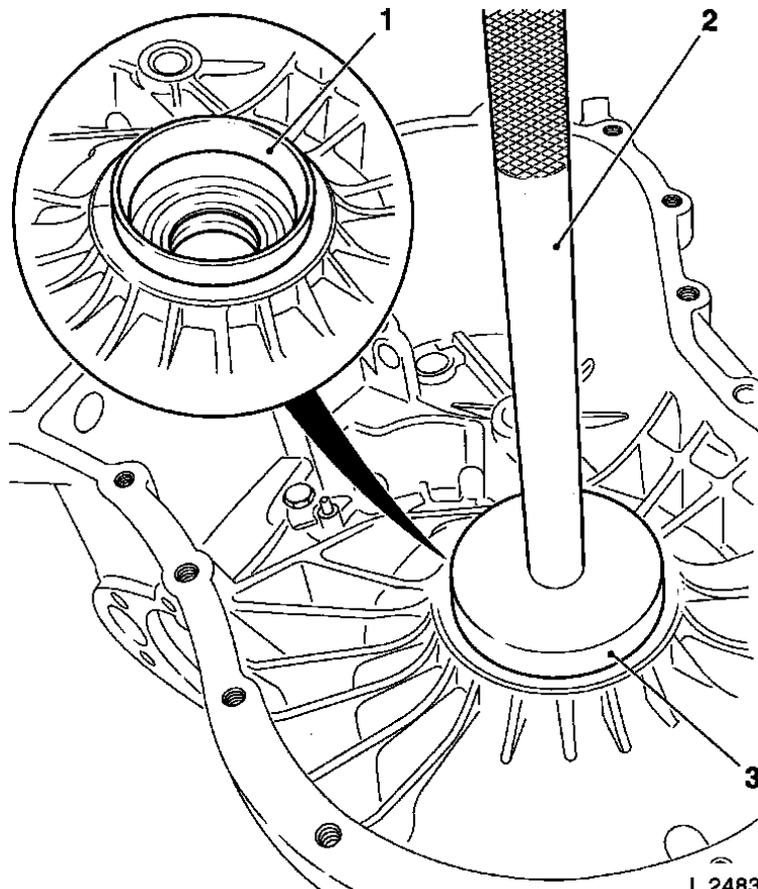
L 2482

13. Clean all removed parts and check for wear and damage; replace if necessary

14. Insert outer race (1) in transmission housing

15. Drive outer race into transmission housing using **KM-6114** (3) in conjunction with **KM-523-1** (2)

**Note:** Installation of outer race for tapered roller bearing in clutch housing is performed in a similar manner



L 2483

16. Assemble transmission - see operation "Transmission, Seal Completely"
17. Install transmission into vehicle - see operation "Transmission, Remove and Install"