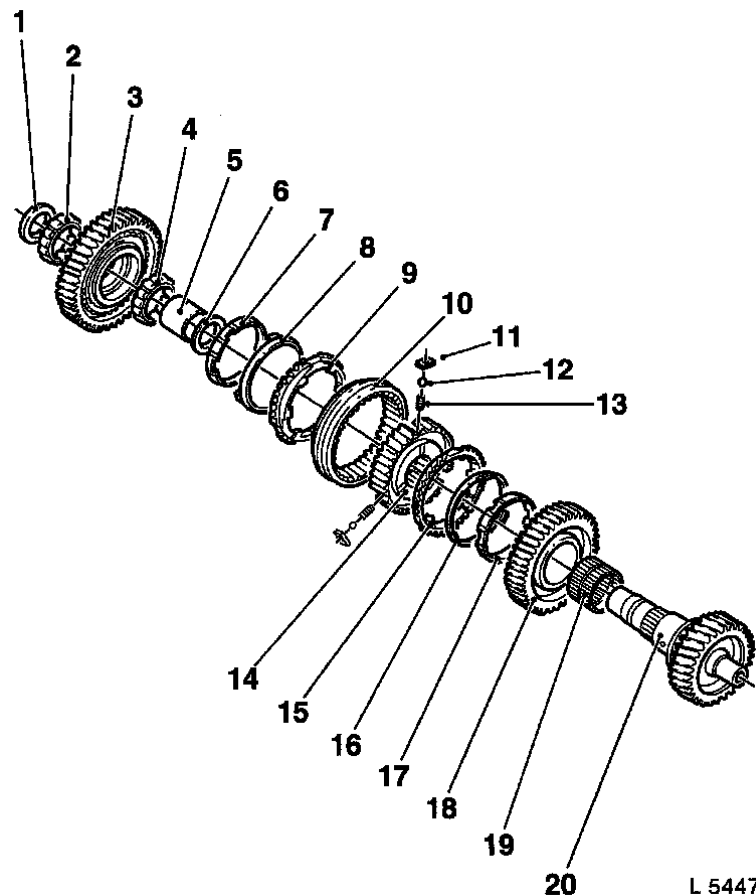


Intermediate Shaft, Disassemble and Assemble

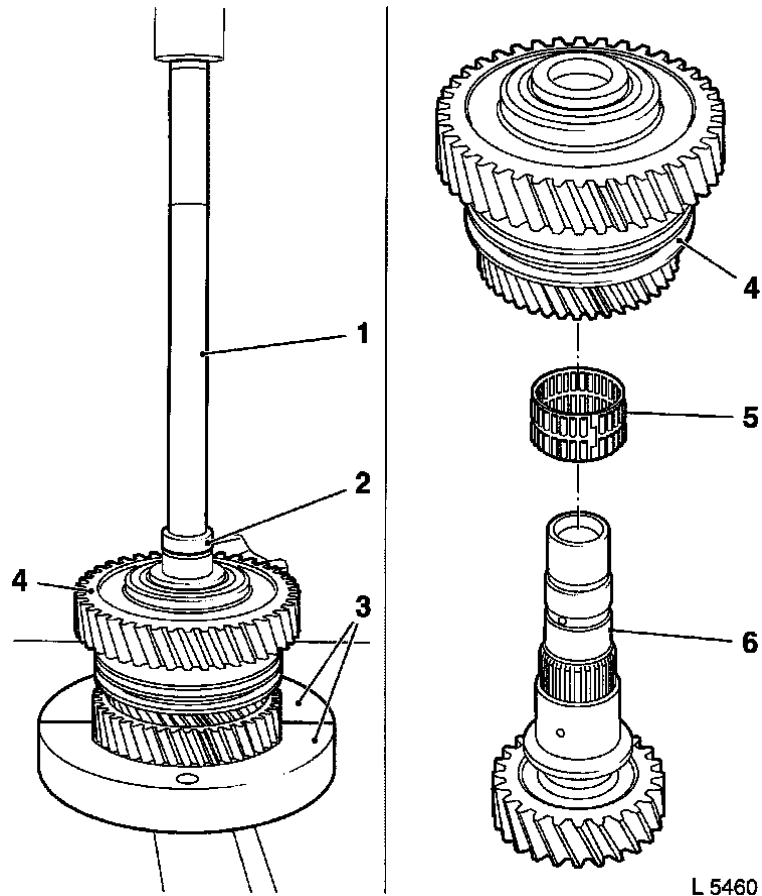
1. Illustration of intermediate shaft

1. Thrust washer
2. Front roller bearing, 1st gear
3. 1st gear (driving)
4. Rear roller bearing, 1st gear
5. Front and rear roller bearing bushing, 1st gear
6. Spacer
7. 1st gear inner synchroniser ring
8. Intermediate synchroniser ring, 1st gear
9. 1st gear outer synchroniser ring
10. Shift sleeve
11. Sliding block
12. Ball
13. Spring
14. 1st/2nd gear synchromesh body
15. 2nd gear outer synchroniser ring
16. Intermediate synchroniser ring, 2nd gear
17. 2nd gear inner synchroniser ring
18. 2nd gear (driving)
19. Needle roller bearing
20. Intermediate shaft



Important: If gears are damaged, always replace entire intermediate shaft assembly. Obtain appropriate synchroniser assembly repair kits from Aftersales

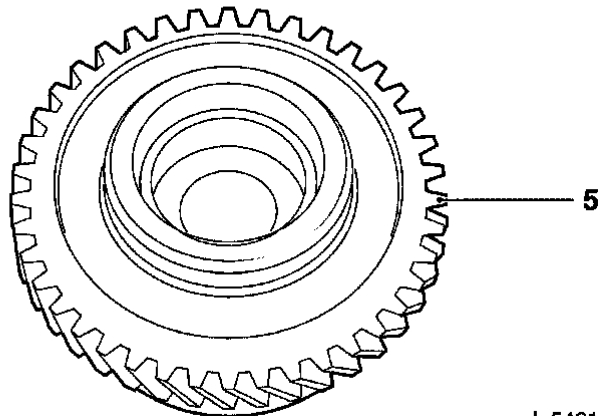
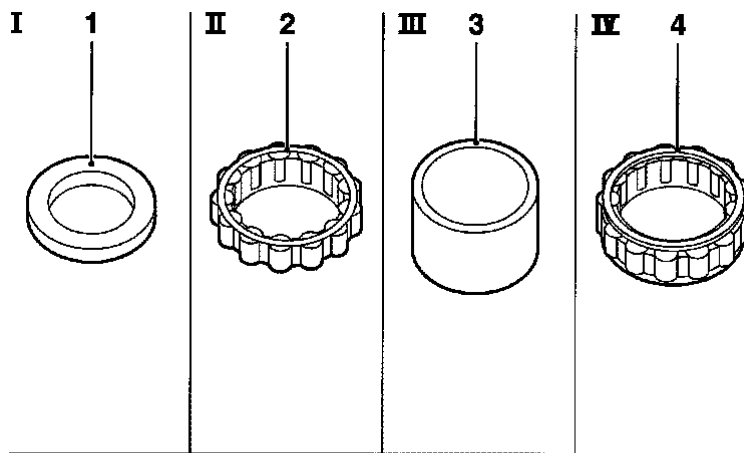
2. Remove intermediate shaft from transmission - see operation "Intermediate Shaft, Remove and Install"
3. Press intermediate shaft (6) out of 1st / 2nd gear synchromesh body (4) using **KM-523-1** (1), **KM-6126** (2) and **KM-6223** (3)
4. Remove needle roller bearings (5) from intermediate shaft



L 5460

5. Disassemble 1st gear

- (I) Remove thrust washer (1) from 1st gear (5)
- (II) Remove front roller bearing (2) from 1st gear
- (III) Remove bushing (3) for roller bearing from 1st gear
- (IV) Remove rear roller bearing (4) from 1st gear

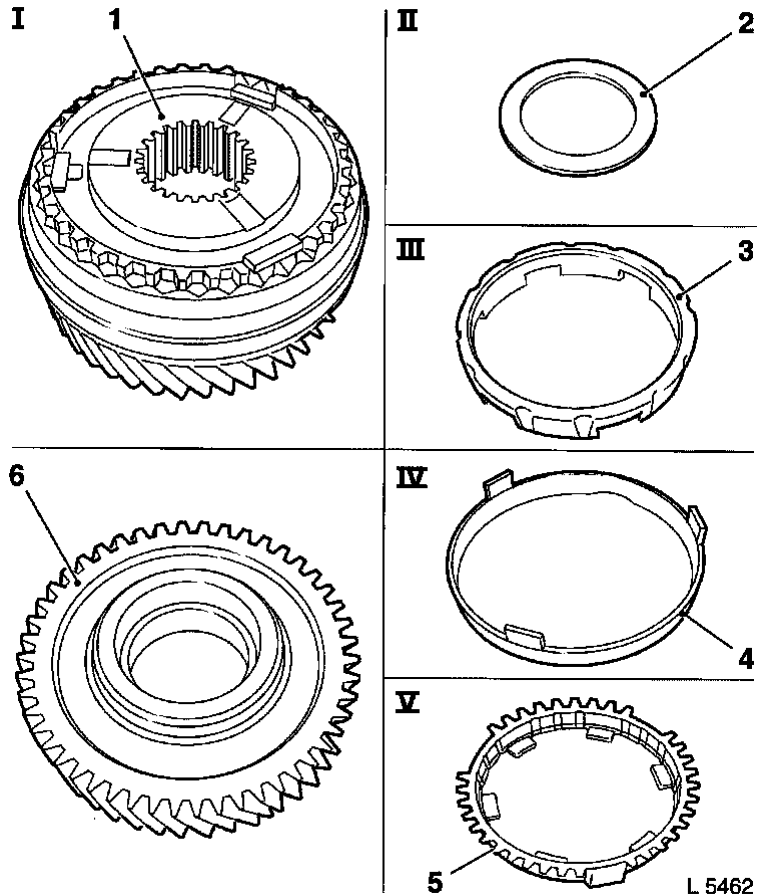


L 5461

6. Check wearing parts for damage and replace as necessary

7. Disassemble synchromesh

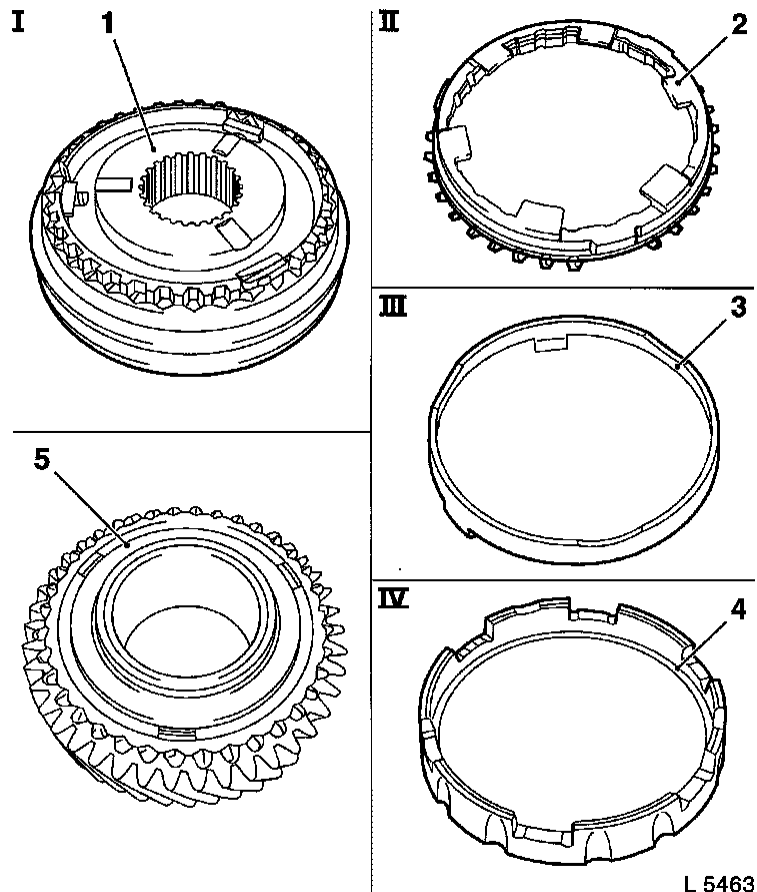
- (I) Remove 1st gear (6) from synchromesh body (1)
- (II) Remove spacer (2) from synchromesh body
- (III) Remove inner synchroniser ring (3) for 1st gear from synchromesh body
- (IV) Remove intermediate synchroniser ring (4) for 1st gear from synchromesh body
- (V) Remove outer synchroniser ring (5) for 1st gear from synchromesh body



8. Check wearing parts for damage and replace as necessary

9. Disassemble synchromesh

- (I) Remove synchromesh body (1) from 2nd gear (5)
- (II) Remove outer synchroniser ring (2) for 2nd gear from 2nd gear
- (III) Remove intermediate synchroniser ring (3) for 2nd gear from 2nd gear
- (IV) Remove inner synchroniser ring (4) for 2nd gear from 2nd gear



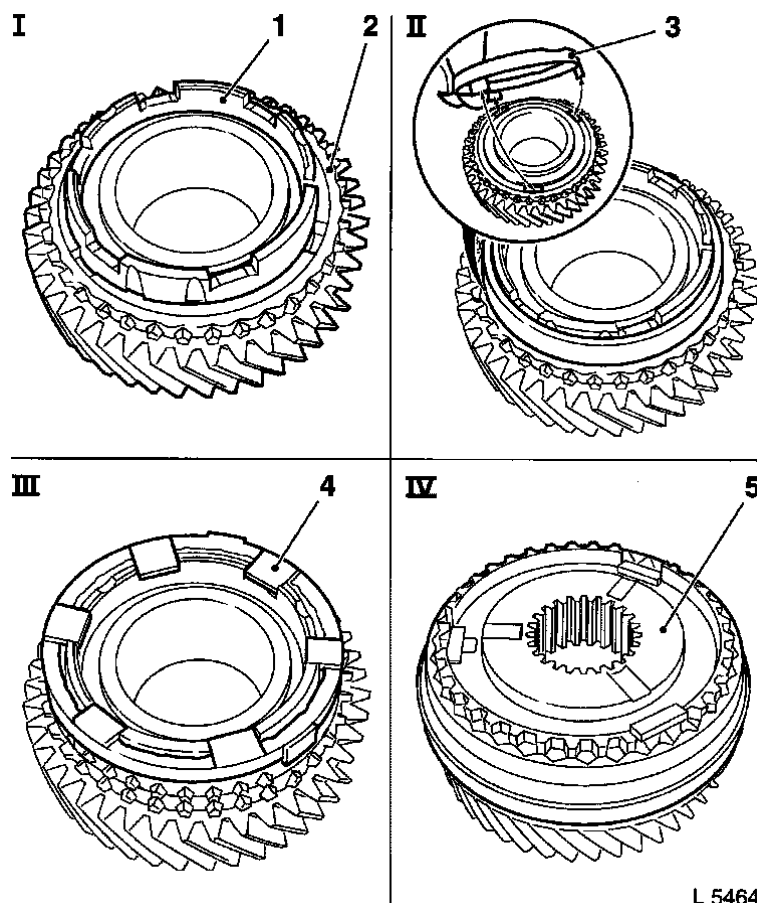
10. Check wearing parts for damage and replace as necessary

11. Assemble synchronmesh

- (I) Remove inner synchroniser ring (1) for 2nd gear from 2nd gear (2)
- (II) Install intermediate synchroniser ring (3) for 2nd gear to 2nd gear

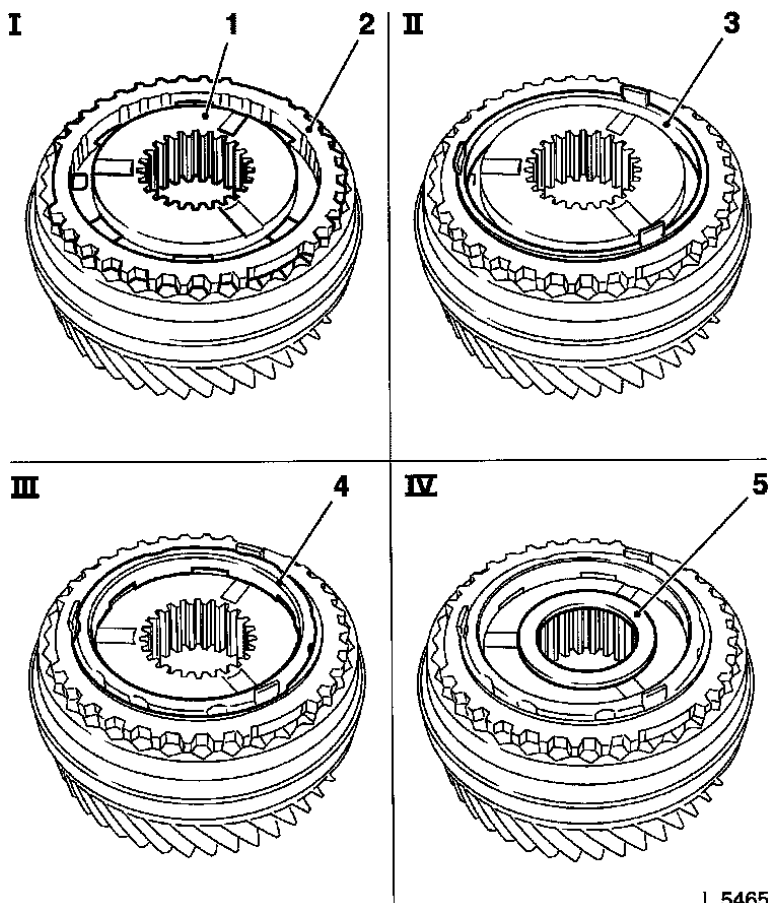
Note: Observe installed position (arrows). For enhanced illustration, magnifying glass in Fig. L5464 shows installation without inner synchroniser ring

- (III) Install outer synchroniser ring (4) for 2nd gear to 2nd gear
- (IV) Install synchronmesh body (5) to 2nd gear



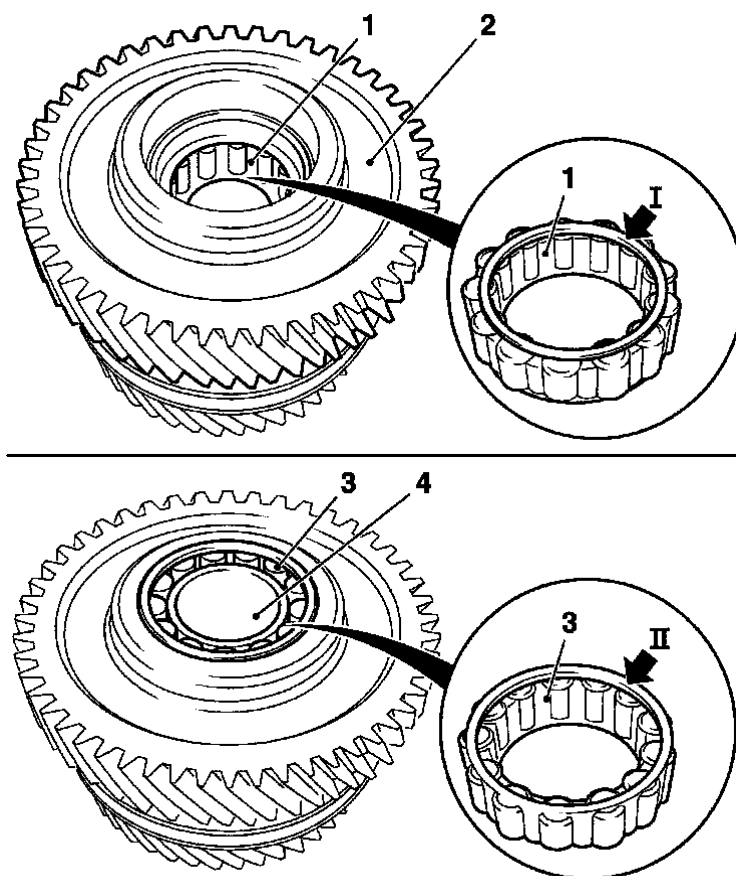
12. Assemble synchronmesh

- (I) Install outer synchroniser ring (2) for 1st gear to synchronmesh body (1)
- (II) Install intermediate synchroniser ring (3) for 1st gear to synchronmesh body
- (III) Install inner synchroniser ring (4) for 1st gear to synchronmesh body
- (IV) Install spacer (5) to synchronmesh body



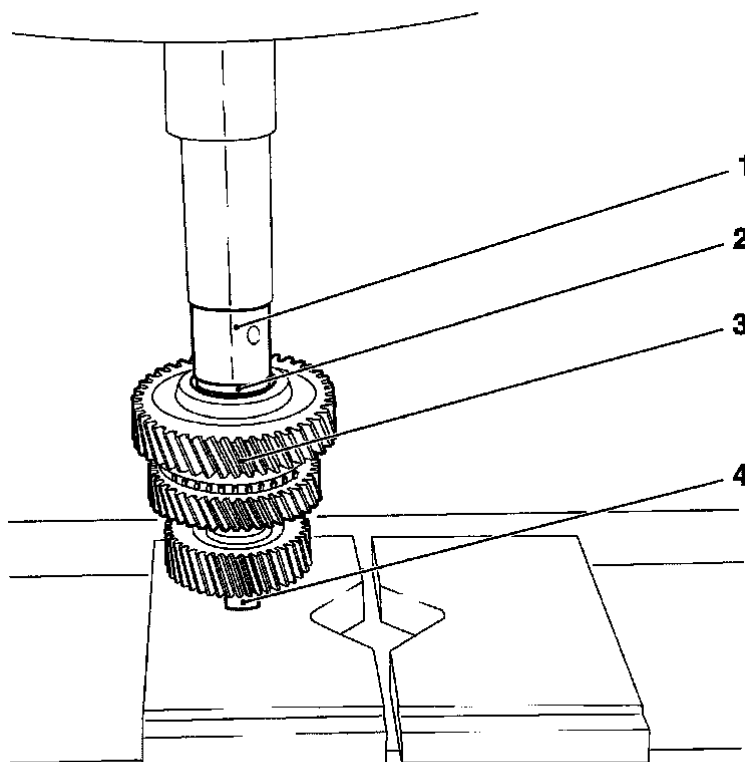
13. Assemble synchromesh

- Install 1st gear (2) to 1st/2nd gear synchromesh body
- Install rear roller bearing (1) to 1st gear - narrow collar (arrow I) points upwards
- Install front roller bearing (3) to 1st gear - wide collar (arrow II) points upwards
- Install bushing (4) for roller bearing



L 5466

14. 1. Press thrust washer (2) and 1st/2nd gear assembly with synchromesh body (3) onto intermediate shaft (4) using KM-6219 (1)



L 5467

15. Install intermediate shaft - see operation "Intermediate Shaft, Remove and Install"