

## Reconditioning Main Shaft

### Special Tools:

7 RA

P 45	Tube to press gears on main shaft	VW 405	V-block arbor
P 65	Press plate for removing inner roller bearing race from main shaft	VW 406	V-block (two)
VW 400	Hydraulic press	VW 408	Arbor, general use
VW 401	Plate for various press operations	VW 409	Arbor, general use
		VW 412	Arbor, general use

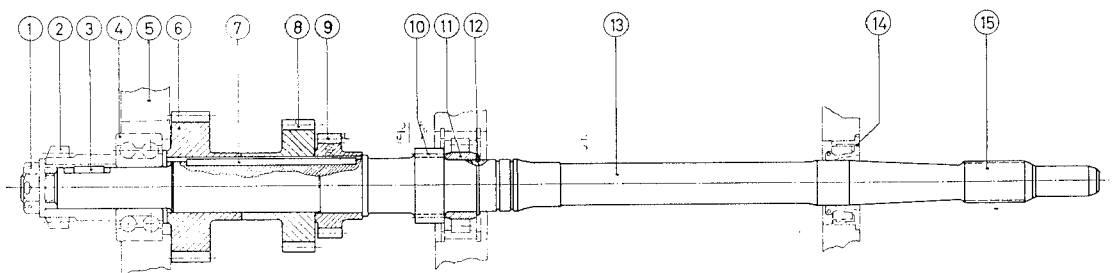


Fig. 69

- |                           |                            |
|---------------------------|----------------------------|
| ① Castle nut              | ⑨ 2nd gear                 |
| ② Reverse gear            | ⑩ 1st gear                 |
| ③ Key                     | ⑪ Inner bearing race       |
| ④ Double-row ball bearing | ⑫ Lock ring                |
| ⑤ Intermediate plate      | ⑬ Main shaft               |
| ⑥ 4th gear                | ⑭ Oil seal                 |
| ⑦ Key                     | ⑮ Splines for clutch plate |
| ⑧ 3rd gear                |                            |

To remove the main shaft the transmission must be partially disassembled but the differential may remain undisturbed.

### Removal

1. Remove front cover and intermediate plate with main and pinion shafts (2 RA).

### Caution

Note size and number of gaskets between transmission housing and intermediate plate.

2. Remove main shaft and pinion from intermediate plate (2 RA, Fig. 34).
3. Remove spacer between 4th gear and double-row ball bearing.
4. Clean main shaft.