

Refit the clip on the lever knob.

Refit the equipped gear lever knob.

Proceed in the reverse order to removal.



Repair-12x02x01x04-01x37-1-2-1.xml



XSL version : 3.02 du 22/07/11

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GEARBOX SHAFT: REMOVAL - REFITTING



Note, one or more warnings are present in this procedure



Special tooling required

DC4 gearbox internal renovation kit

Bvi. 1956

DC4 gearbox internal renovation

RSM. 9306

WARNING

 To avoid all risk of damage to the systems, apply the safety and cleanliness instructions and operation recommendations before carrying out any repair:

■ [\(see 23A. Automatic gearbox , Automatic gearbox: Precautions for the repair\) ,](#)

■ [Vehicle: Precautions for the repair](#) (01D, Mechanical introduction).

REMOVAL

1. REMOVAL PREPARATION OPERATION

 Remove:

■ the automatic gearbox [Automatic gearbox: Removal - Refitting](#) ,

■ the automatic gearbox wiring [Automatic gearbox wiring: Removal - Refitting](#) ,

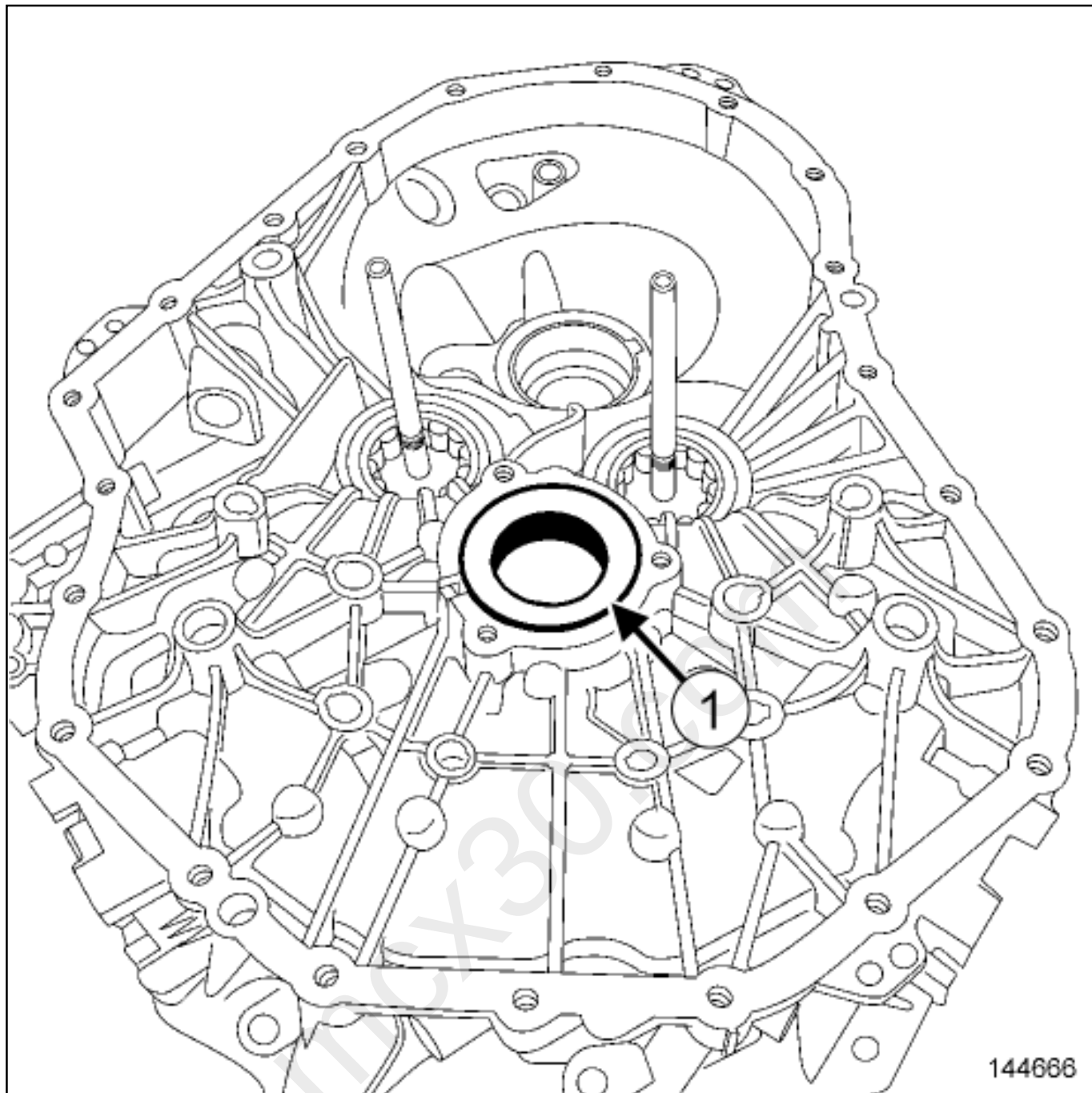
■ the speed sensors [Speed sensor: Removal - Refitting](#) ,

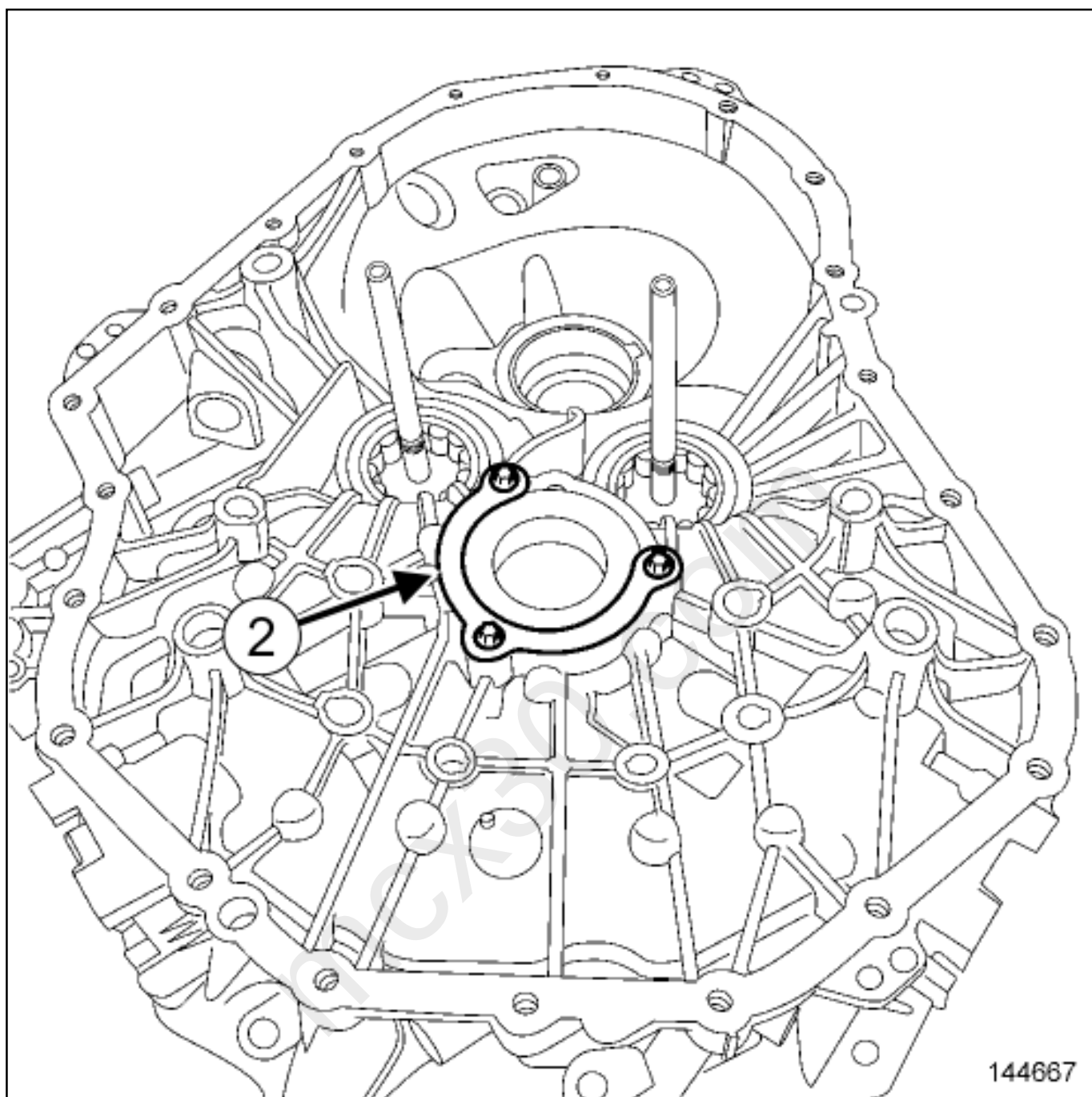
■ the gear engaged sensor [Gear engaged sensor: Removal - Refitting](#) ,

■ the automatic transmission computer [Automatic gearbox computer : Removal - Refitting](#) ,

- the clutch pressure plate [Clutch: Removal - Refitting](#) ,
- the clutch actuator motors [Clutch actuator motor: Removal - Refitting](#) ,
- the clutch thrust bearing [Clutch thrust bearing: Removal - Refitting](#) ,
- the clutch forks [Clutch fork: Removal - Refitting](#) ,
- the input shaft lip seal [Input shaft lip seal: Removal - Refitting](#) ,
- the clutch housing ([see 23A, Automatic gearbox, Clutch housing: Removal - Refitting](#)) ,
- the input shaft bearing on the clutch housing ([see 23A, Automatic gearbox, Clutch housing bearing: Removal - Refitting](#)) .

2. OPERATION FOR REMOVAL OF PART CONCERNED





Refit:

- the bracket(2) of the input shaft bearing,

- the clutch housing without fitting the housing bolts.

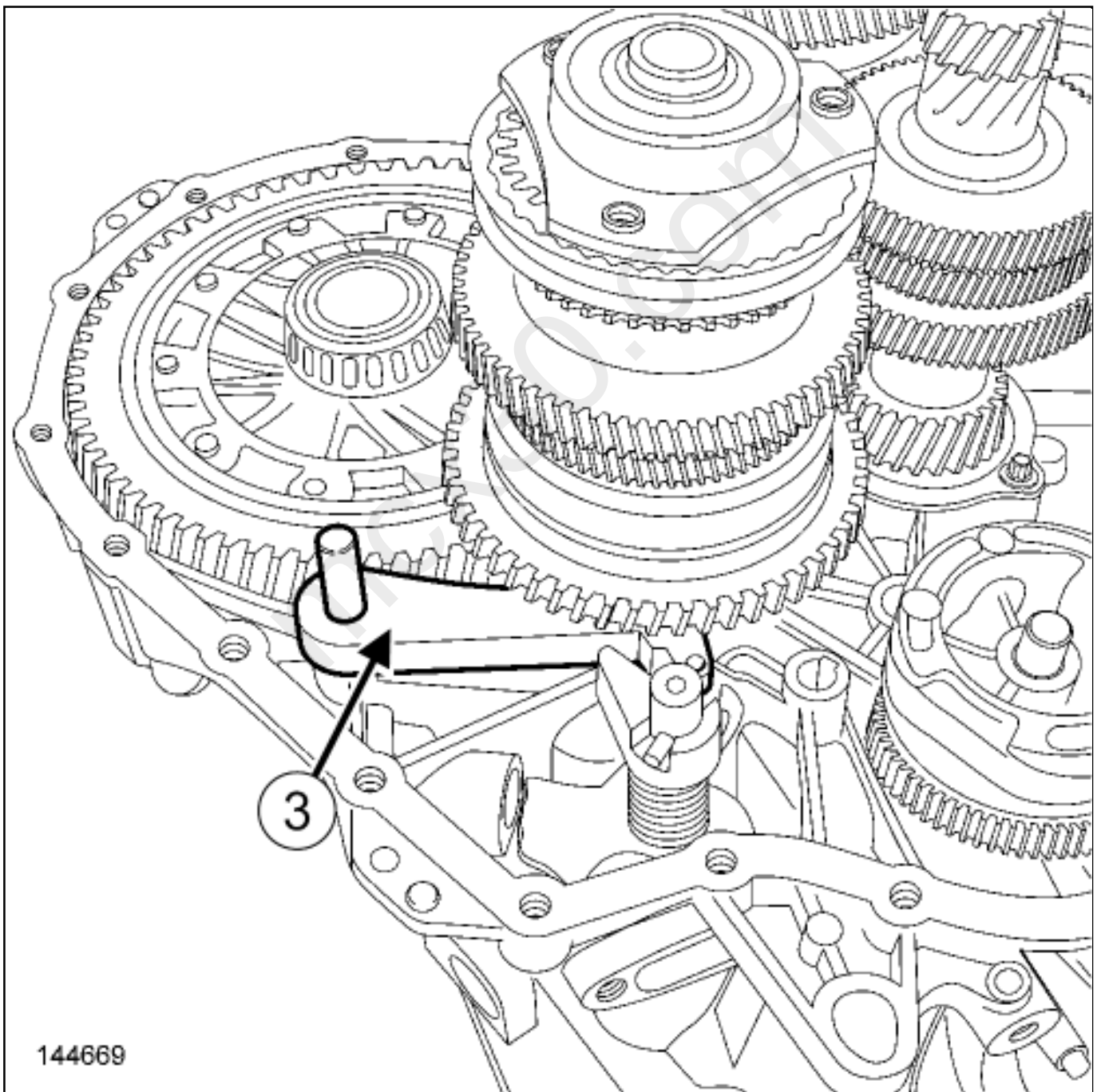
Turn over the automatic gearbox.

Remove:

- the six retaining bolts of the output shafts,

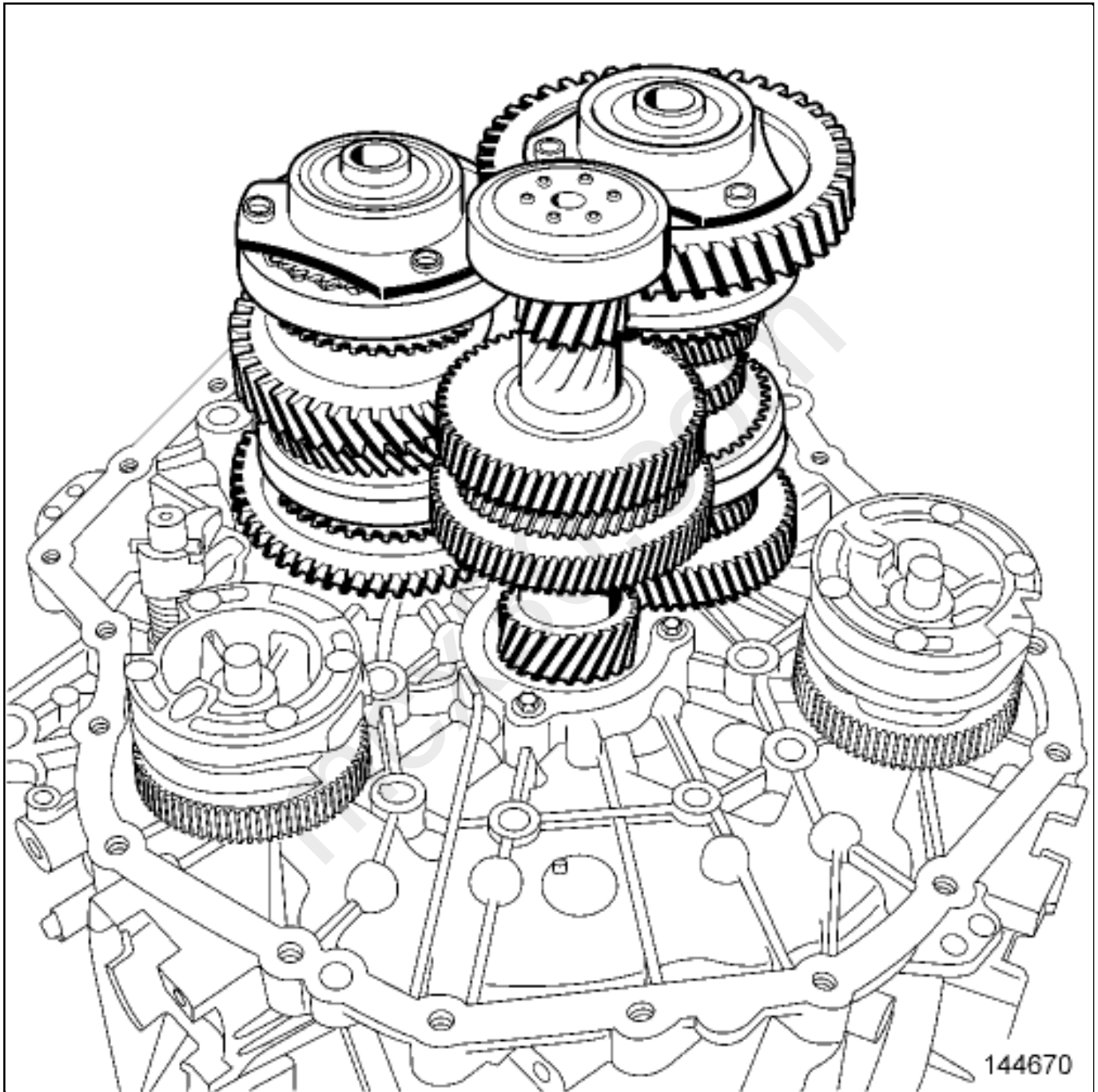
- the mechanism housing,

- the gearbox control forks([see 23A, Automatic gearbox , Gear box control fork: Removal - Refitting](#)) .



Shift the output shaft slightly.

Remove the parking finger(3) .



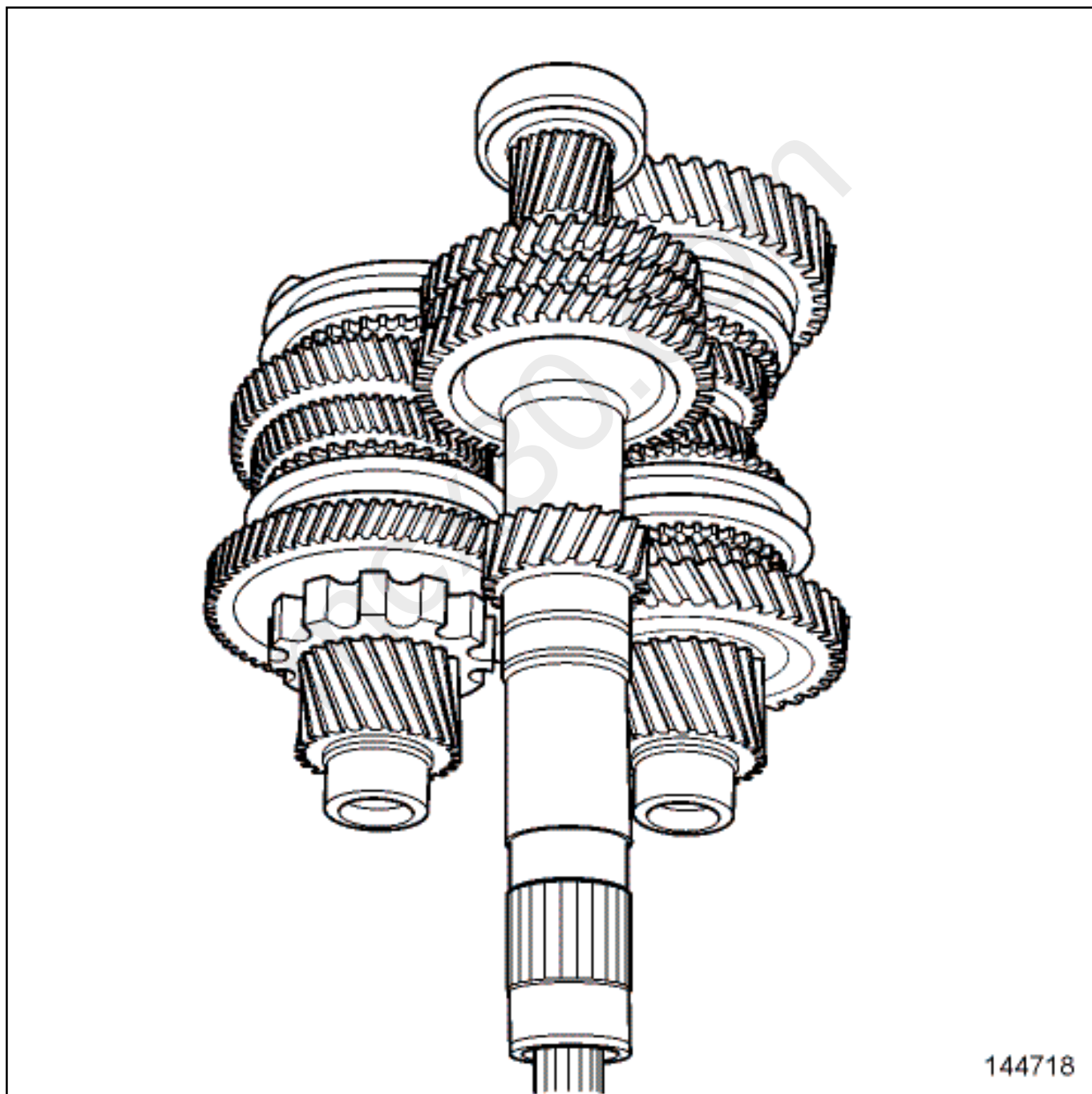
Remove the gearbox shaft assembly.

1. REFITTING PREPARATION OPERATION



Clean all the removed parts [Vehicle: Parts and consumables for the repair](#) (04B, Consumables - Products).

2. REFITTING OPERATION FOR PART CONCERNED



Fit the gearbox shafts on the workbench.



Note:

Take care not to knock the gearbox shafts in order not to damage the pinion teeth.

Refit the shafts simultaneously.



Note:

Take care not to damage the lubrication channels.

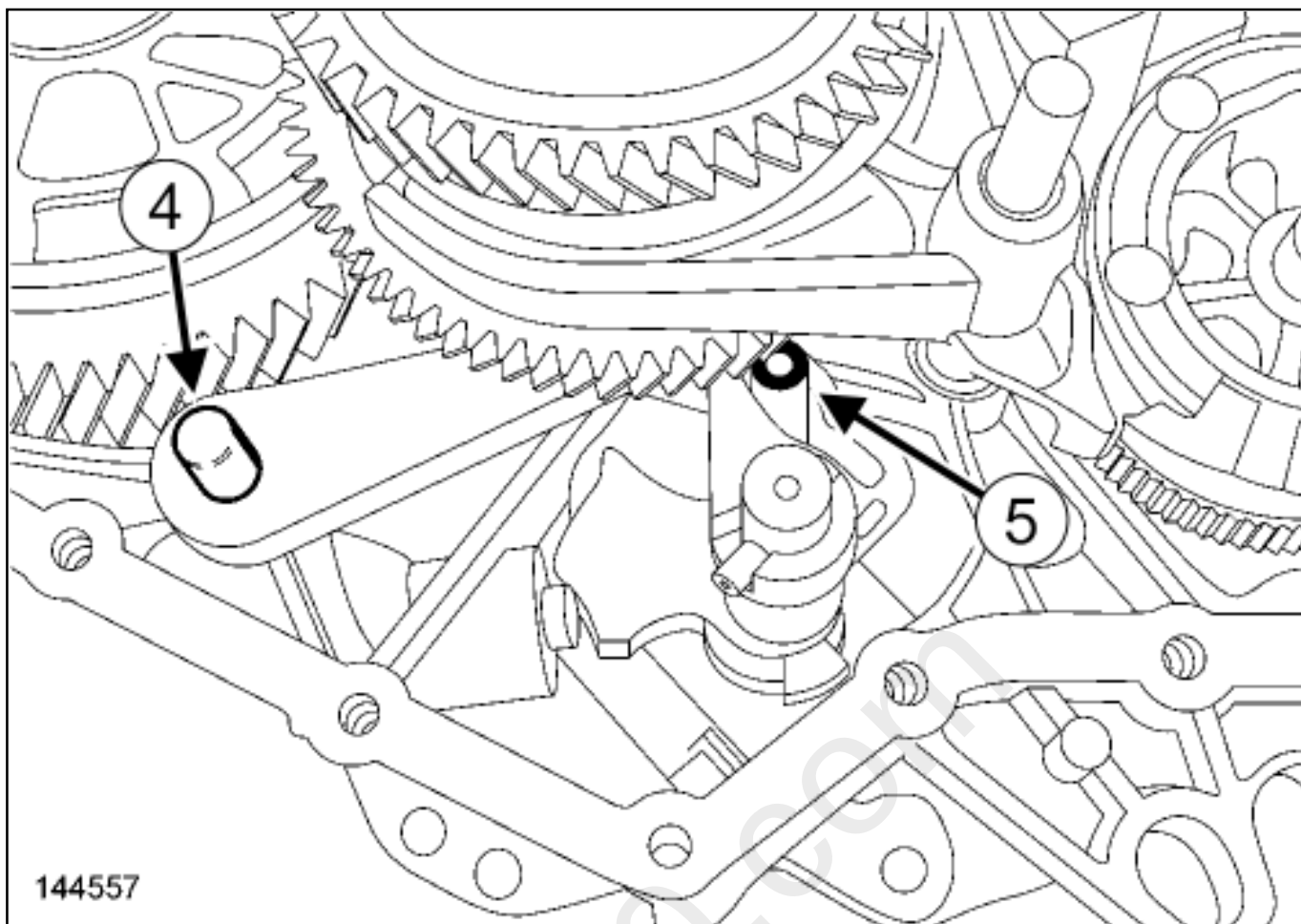
Shift the output shaft slightly.

Refit the parking finger.



CAUTION

Failure to observe the following procedure could damage the parking mechanism.



Check the presence and correct position of the parking finger shaft(4) as well as the parking finger pin which must be in the opening of the parking lever shaft(5) .



Refit:

-
- the gearbox control forks([see 23A, Automatic gearbox , Gear box control fork: Removal - Refitting](#)) .
- the mechanism housing,
- the six retaining bolts of the output shafts.



Torque tighten the bolts of the output shafts([see 23A, Automatic gearbox , Mechanism housing: Removal - Refitting](#))

