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INPUT SHAFT LIP SEAL: REMOVAL - REFITTING



Note, one or more warnings are present in this procedure



Special tooling required

Inertia seal extractor

Bvi. 1948

Tools for removal - refitting of input shaft seals (DC4)

Bvi. 1954



parts always to be replaced:



[Input shaft lip seal](#)

[Input shaft lip seal](#)



WARNING

Before carrying out any operation on a vehicle fitted with the Stop & Start system, always follow the safety instructions [Vehicle: Precautions for the repair](#) .



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](#)) ,



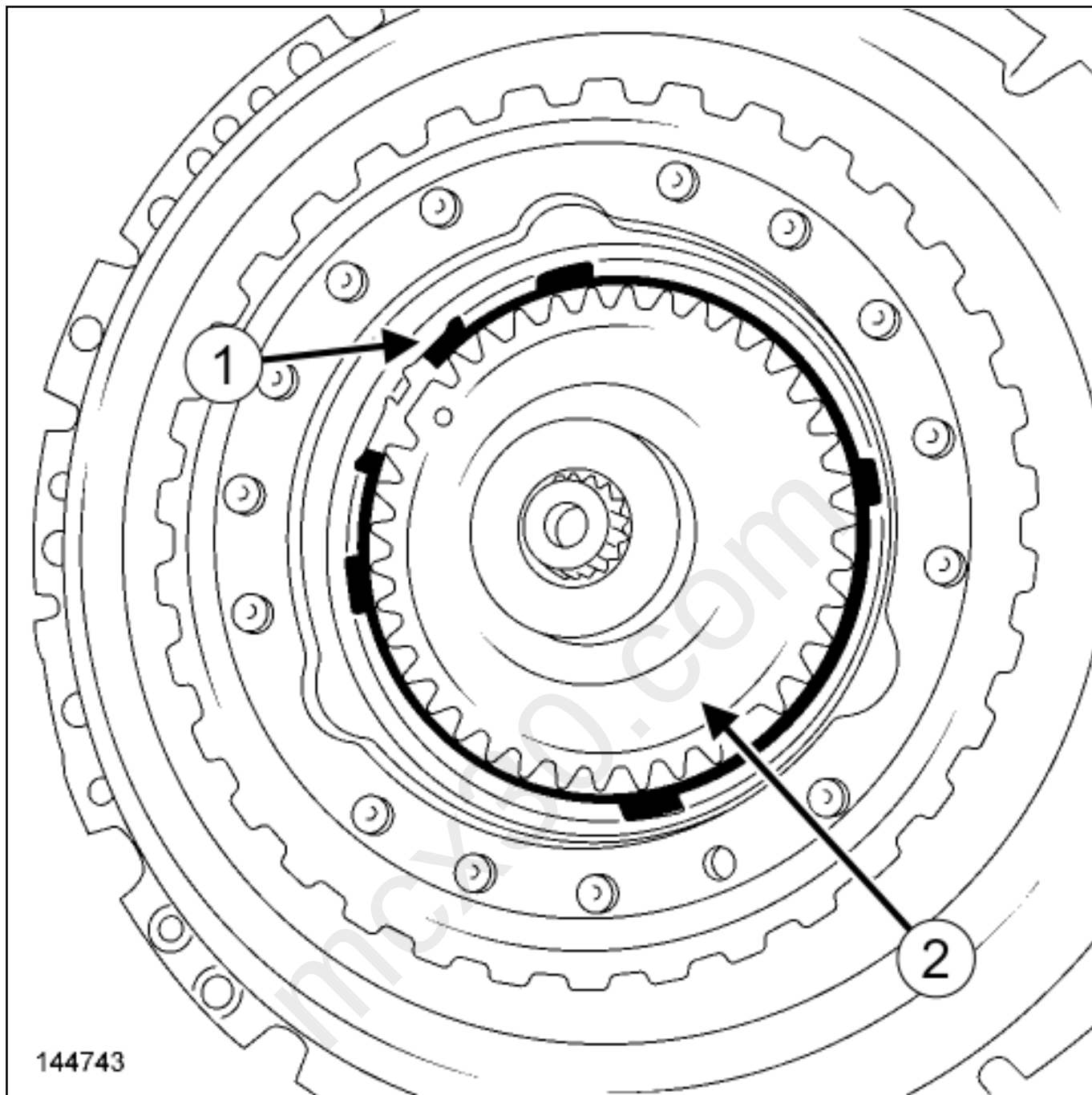
[Vehicle: Precautions for the repair](#) .

REMOVAL

1. REMOVAL PREPARATION OPERATION



Remove the gearbox(see 23A, Automatic gearbox , Automatic gearbox: Removal - Refitting) .



Remove:



the clip(1) of the crownwheel connecting the small input shaft and the clutch plate,



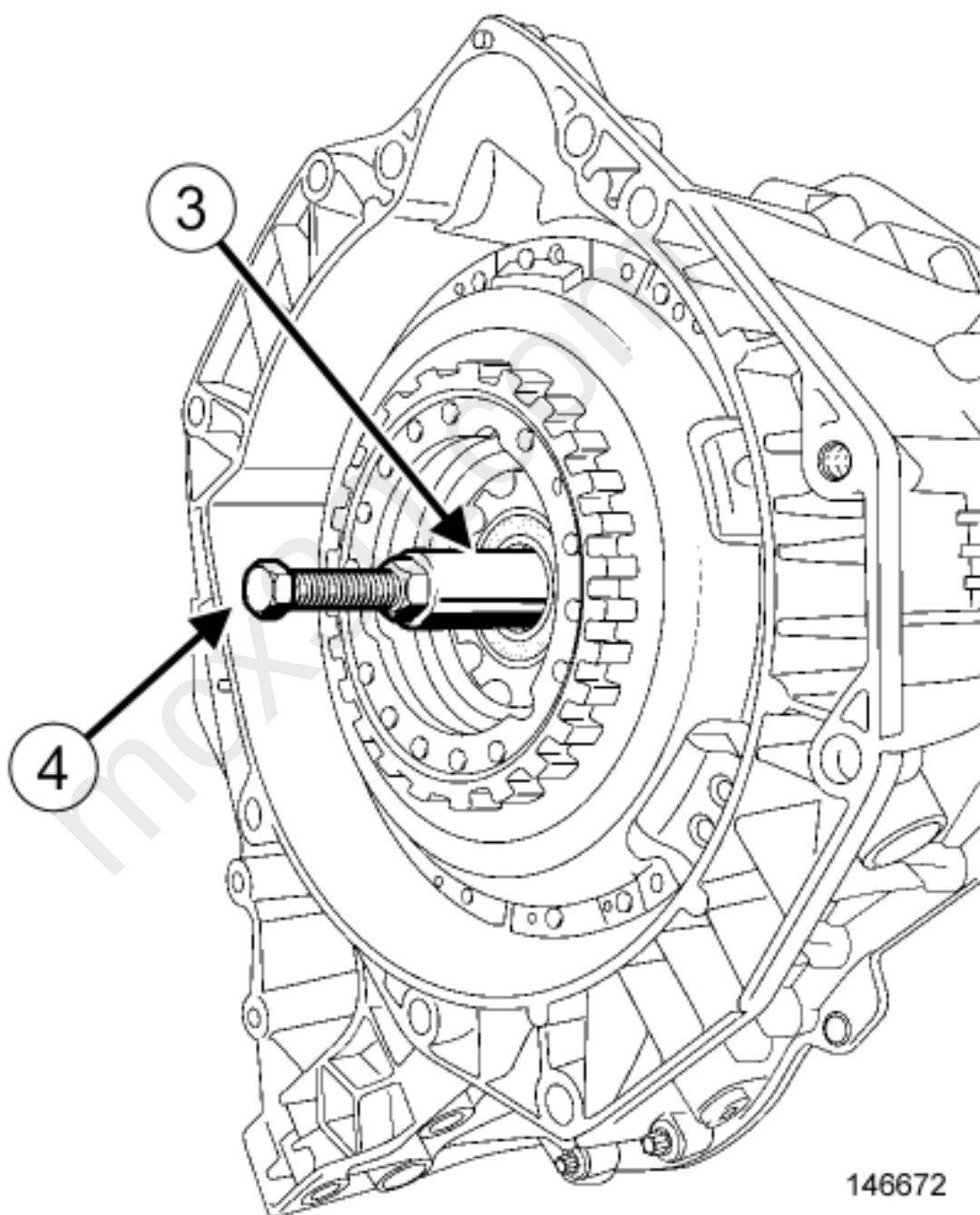
the crownwheel(2) connecting the small input shaft and the clutch plate.

2. REMOVAL OPERATION



CAUTION

Failure to adhere to the following procedure may damage the gearbox.



Note:



Perform the operation with the gearbox positioned horizontally in order to prevent foreign bodies from entering between the two input shafts.

After removing the lip seal, check that the lip seal compression spring came out with the seal.



Insert the toolTools for removal - refitting of input shaft seals (DC4)([Bvi. 1954](#)) (3) on the small input shaft until contact is made with the lip seal.



Turn the body(3) of the toolTools for removal - refitting of input shaft seals (DC4)([Bvi. 1954](#)) by pressing on it to fit the lip seal on the tool.



Turn the bolt(4) of the toolTools for removal - refitting of input shaft seals (DC4)([Bvi. 1954](#)) .



Remove the lip seal of the small diameter input shaft.

REFITTING

1. REFITTING PREPARATION OPERATION



Use surface cleaner[Vehicle: Parts and consumables for the repair](#) to clean the seal mating faces.



parts always to be replaced:

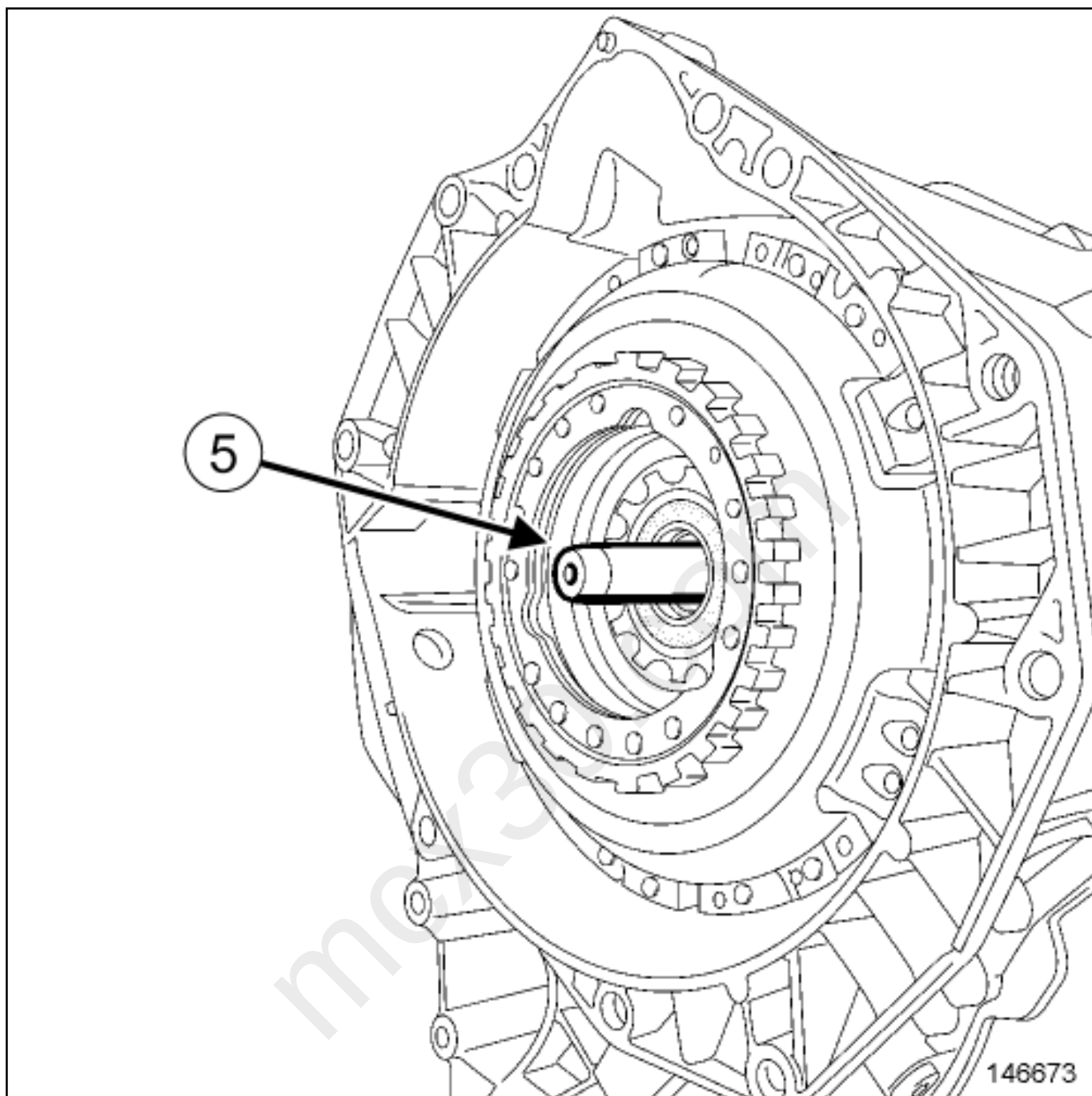


[Input shaft lip seal](#)



Always replace the clip of the crownwheel connecting the small input shaft and the clutch plate.

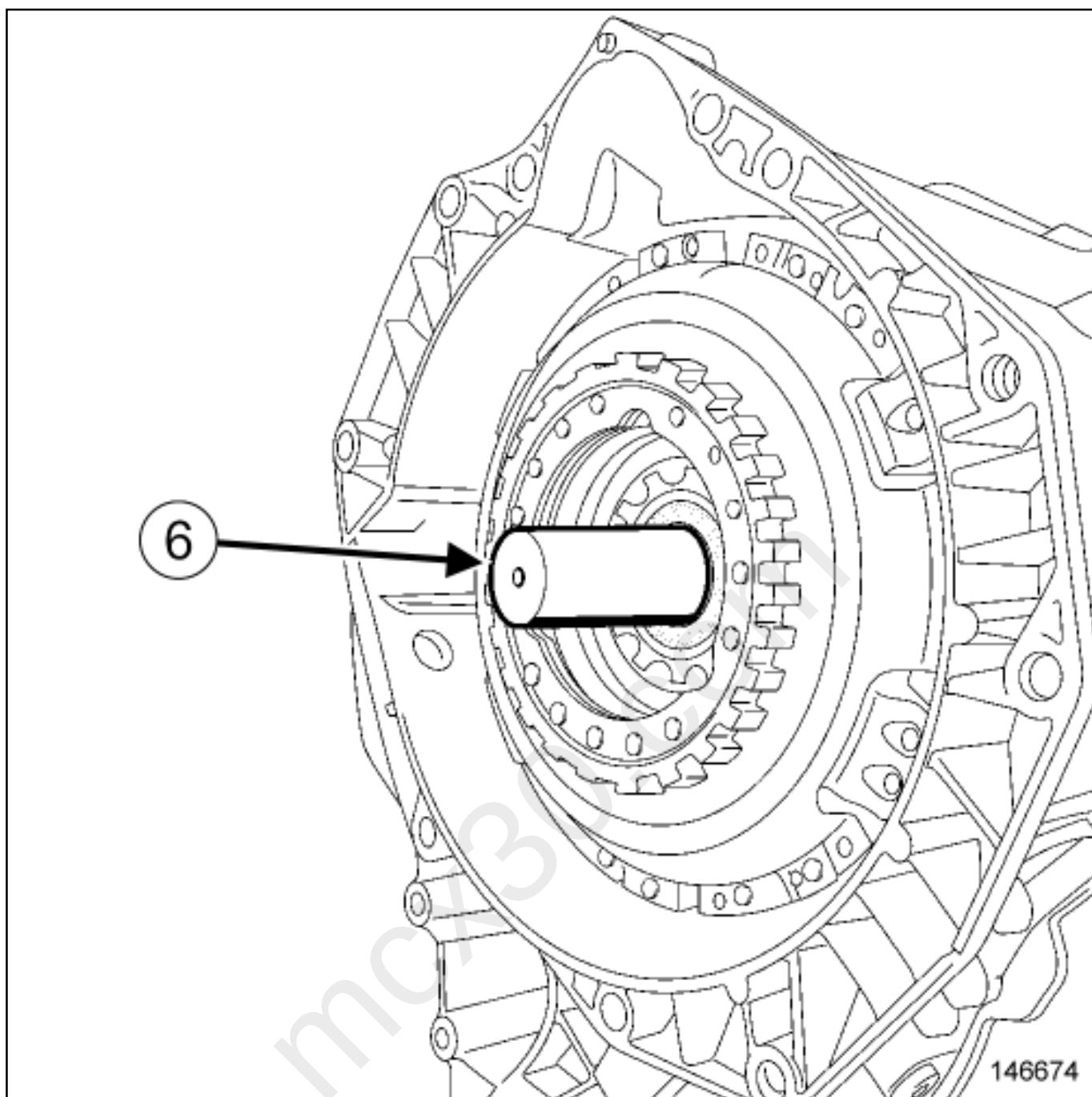
2. REFITTING OPERATION



Fit the protection tube(5) of the toolTools for removal - refitting of input shaft seals (DC4)(Bvi. 1954) on the small diameter input shaft.



Fit the input shaft seal on the protection tube after having lubricated the seal with suitable gearbox oil [Automatic gearbox oil: Specifications](#) .



Refit the lip seal for the small diameter input shaft using the toolTools for removal - refitting of input shaft seals (DC4)([Bvi. 1954](#)) (6) .

3. FINAL OPERATION



Proceed in the reverse order to removal.

1. REMOVAL PREPARATION OPERATION



Remove:



the gearbox([see 23A. Automatic gearbox , Automatic gearbox: 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](#) ,



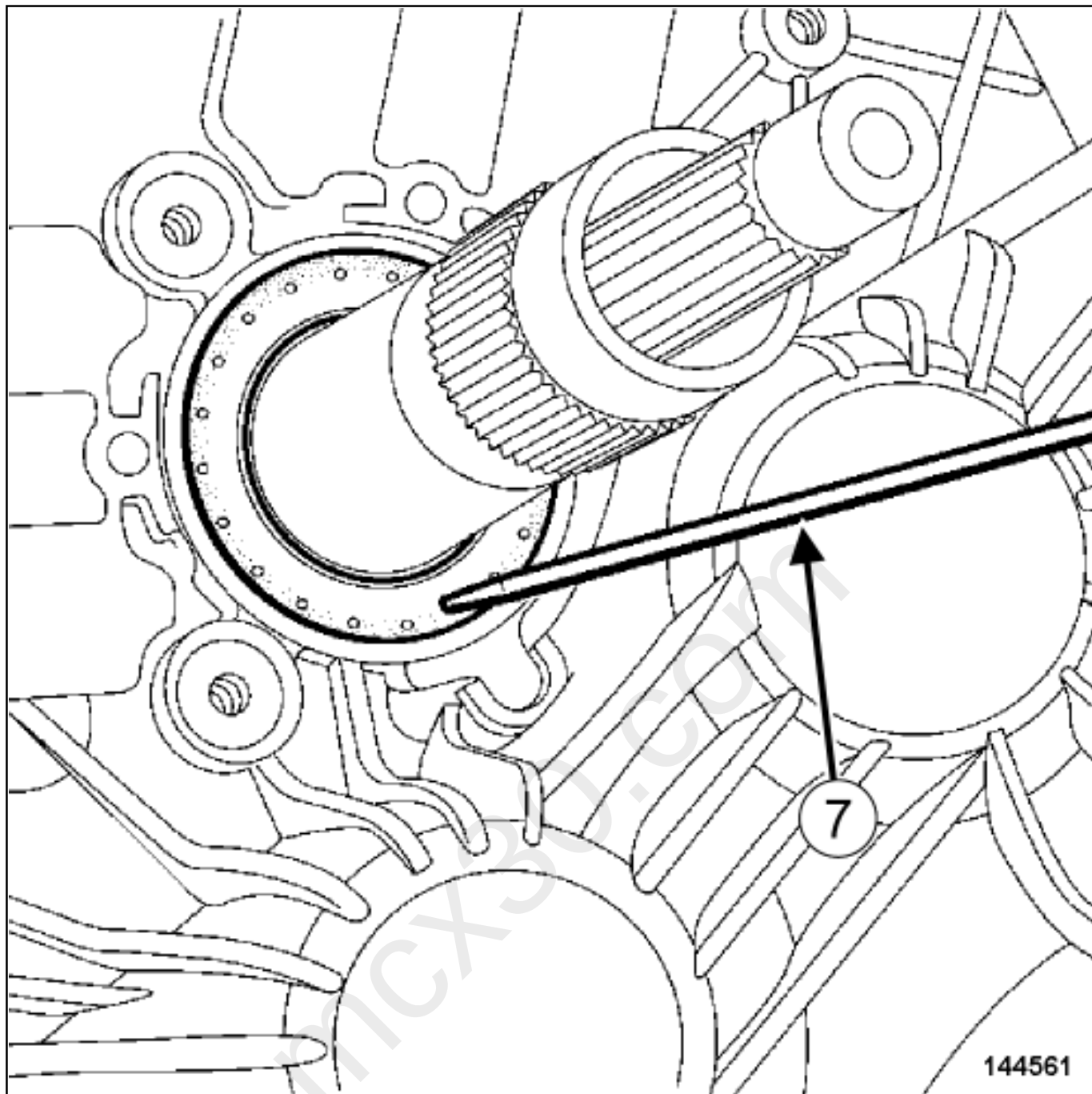
the clutch forks[Clutch fork: Removal - Refitting](#) .

2. REMOVAL OPERATION

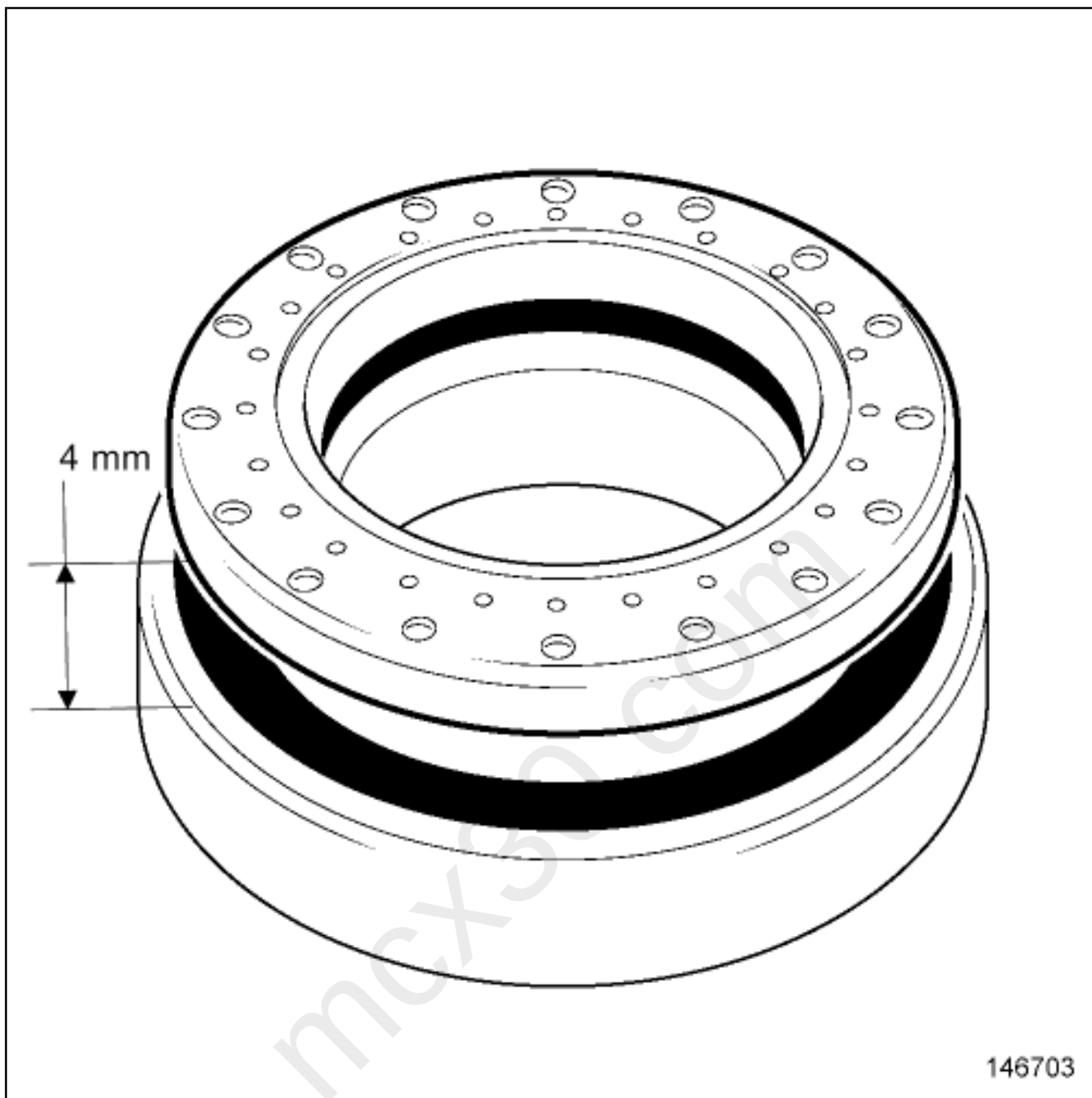


CAUTION

Failure to adhere to the following procedure may damage the gearbox.



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Note:



Take care to insert the seal extraction gimlet no further than (4 mm) in order not to damage the lip seal of the input shaft bearing just behind the seal.

Remove the lip seal of the large diameter input shaft using the tool Inertia seal extractor (Bvi. 1948) (7).

1. REFITTING PREPARATION OPERATION



Use surface cleaner [Vehicle: Parts and consumables for the repair](#) to clean the seal mating faces.



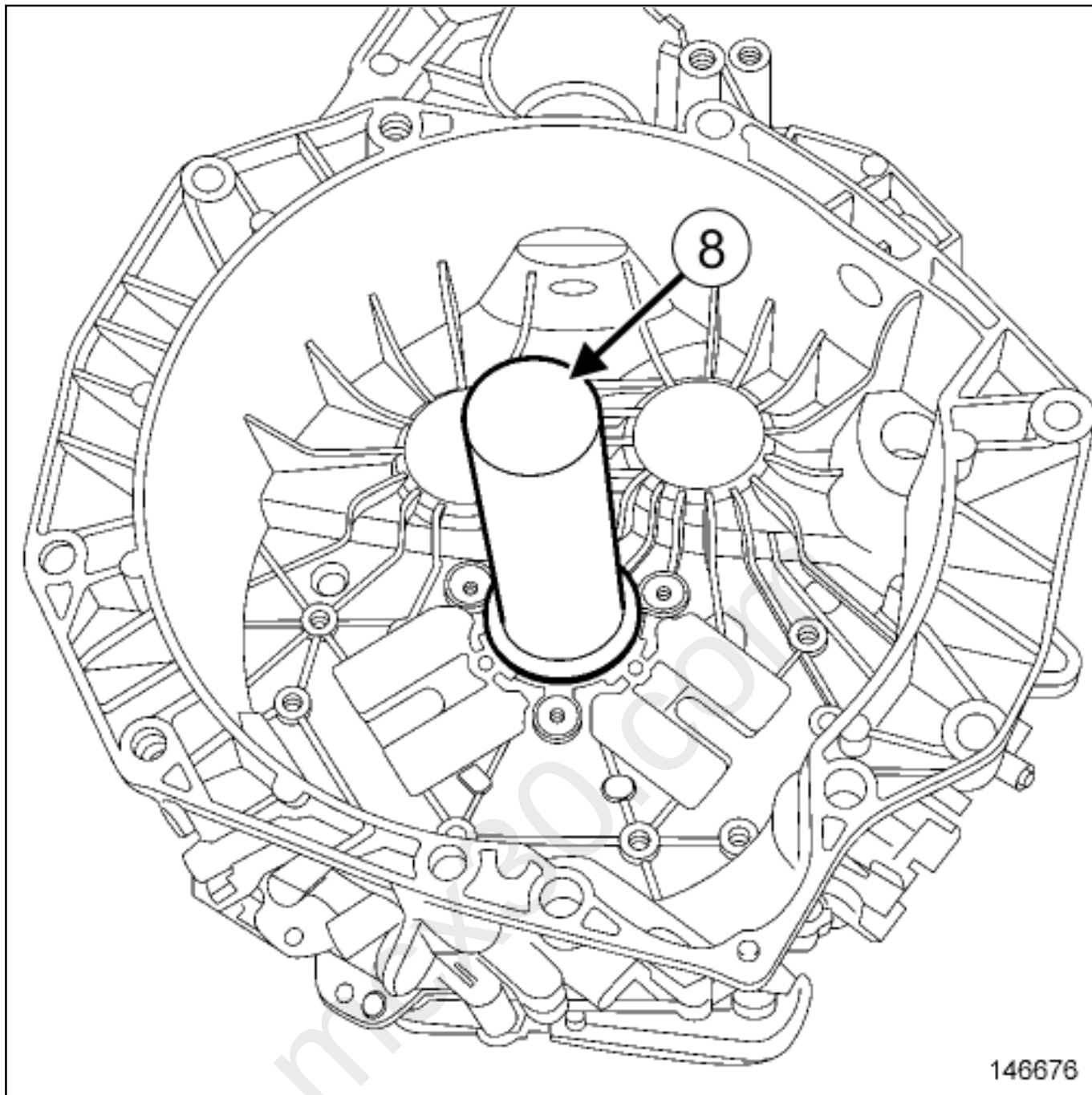
parts always to be replaced:

[Input shaft lip seal](#)



2. REFITTING OPERATION

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Refit the lip seal for the large diameter input shaft using the toolTools for removal - refitting of input shaft seals (DC4)([Bvi. 1954](#)) (8) .

3. FINAL OPERATION



Proceed in the reverse order to removal.