

the large diameter clip(22) , taking care to position it correctly in relation to the lug(23) .

3. FINAL OPERATION



Refit the automatic gearbox [Automatic gearbox: Removal - Refitting](#) .



[Repair-12x03-01x37-1-1-1.xml](#)



XSL version : 3.02 du 22/07/11

mcx30.com

CLUTCH: REMOVAL - REFITTING



Note, one or more warnings are present in this procedure



Special tooling required

Clutch compression tool for rearming the compensation system.	Emb. 1604
Clutch pressure plate rearming tools	Emb. 1951
Tool for removal - refitting of clutch pressure plate and housing	Emb. 1952
Clamp for clutch housing	Emb. 2027
Clamp for clutch housing	Emb. 2028

Equipment required

roll pin punch



parts always to be replaced:



Differential output 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:



[Automatic gearbox: Precautions for the repair](#) ,



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

REMOVAL

1. REMOVAL PREPARATION OPERATION



Remove the automatic gearbox([see 23A, Automatic gearbox](#) , [Automatic gearbox: Removal - Refitting](#)) .

2. REMOVAL OPERATION



CAUTION

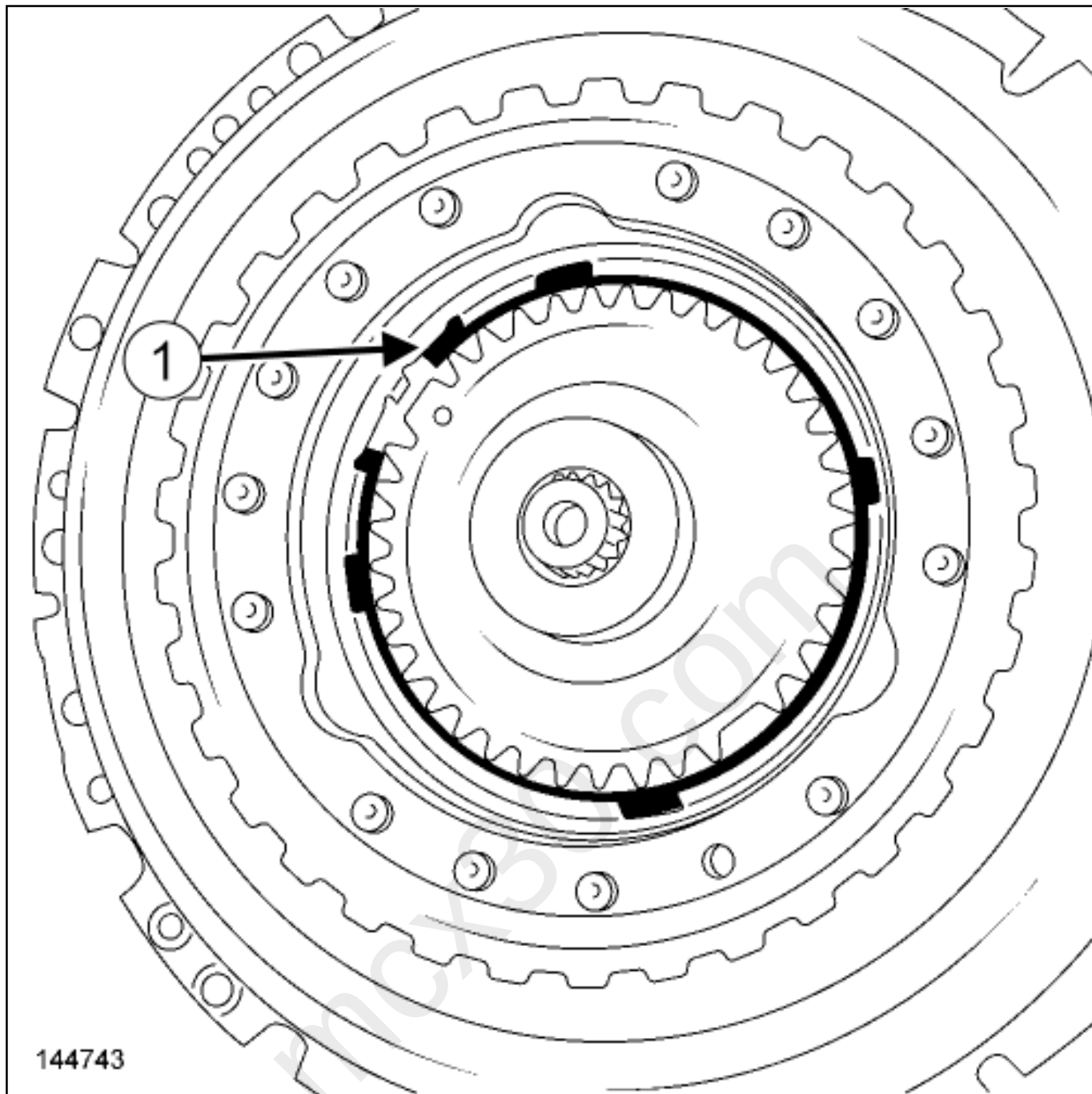
Failure to observe the following procedure could damage the clutch pressure plate assembly.

Note:



Never place the clutch on the diaphragm face - this could damage the face.

If necessary, be sure to place it on a sufficiently thick cloth.



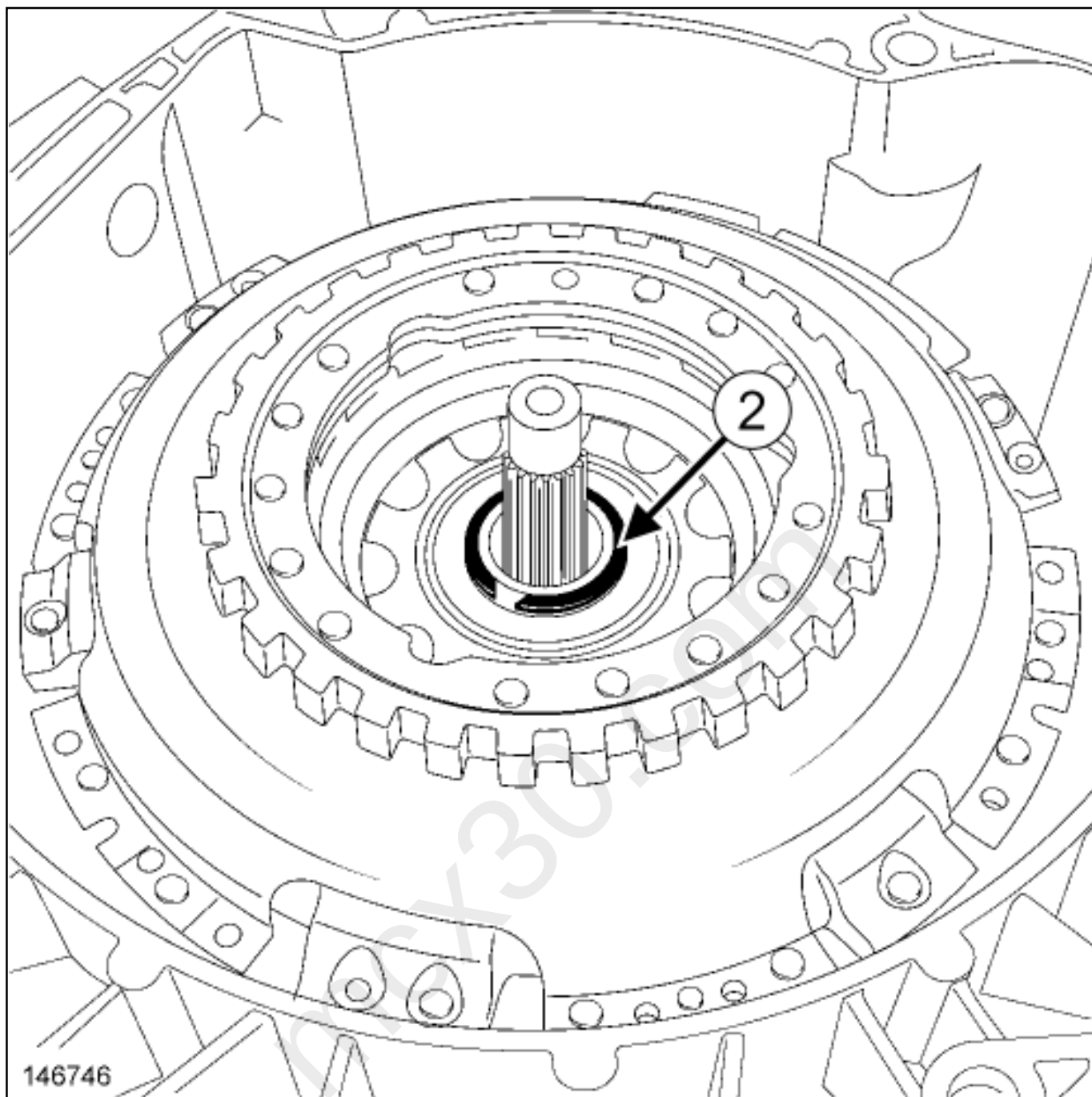
Remove:



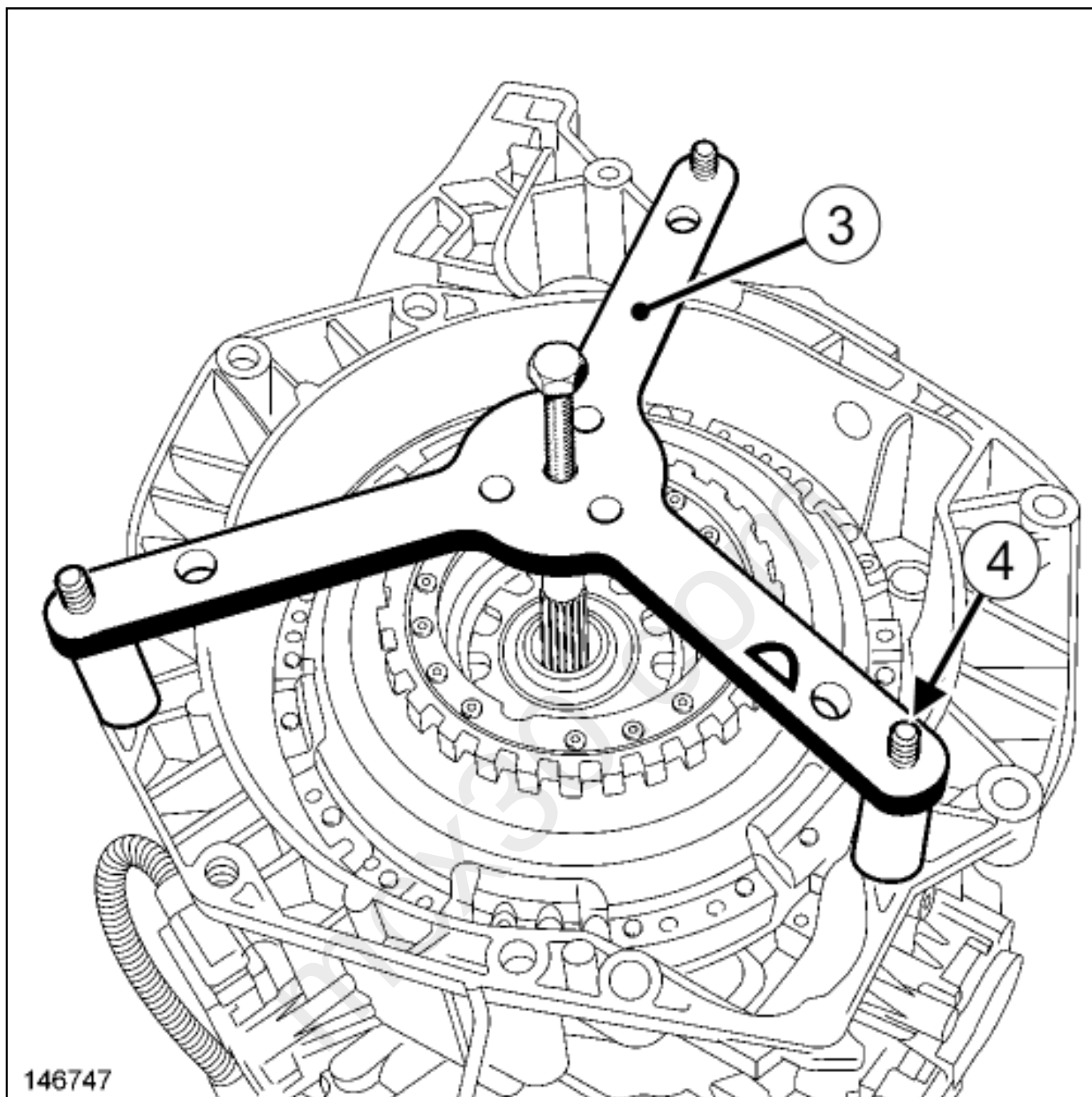
the large diameter clip(1) using snap ring pliers,



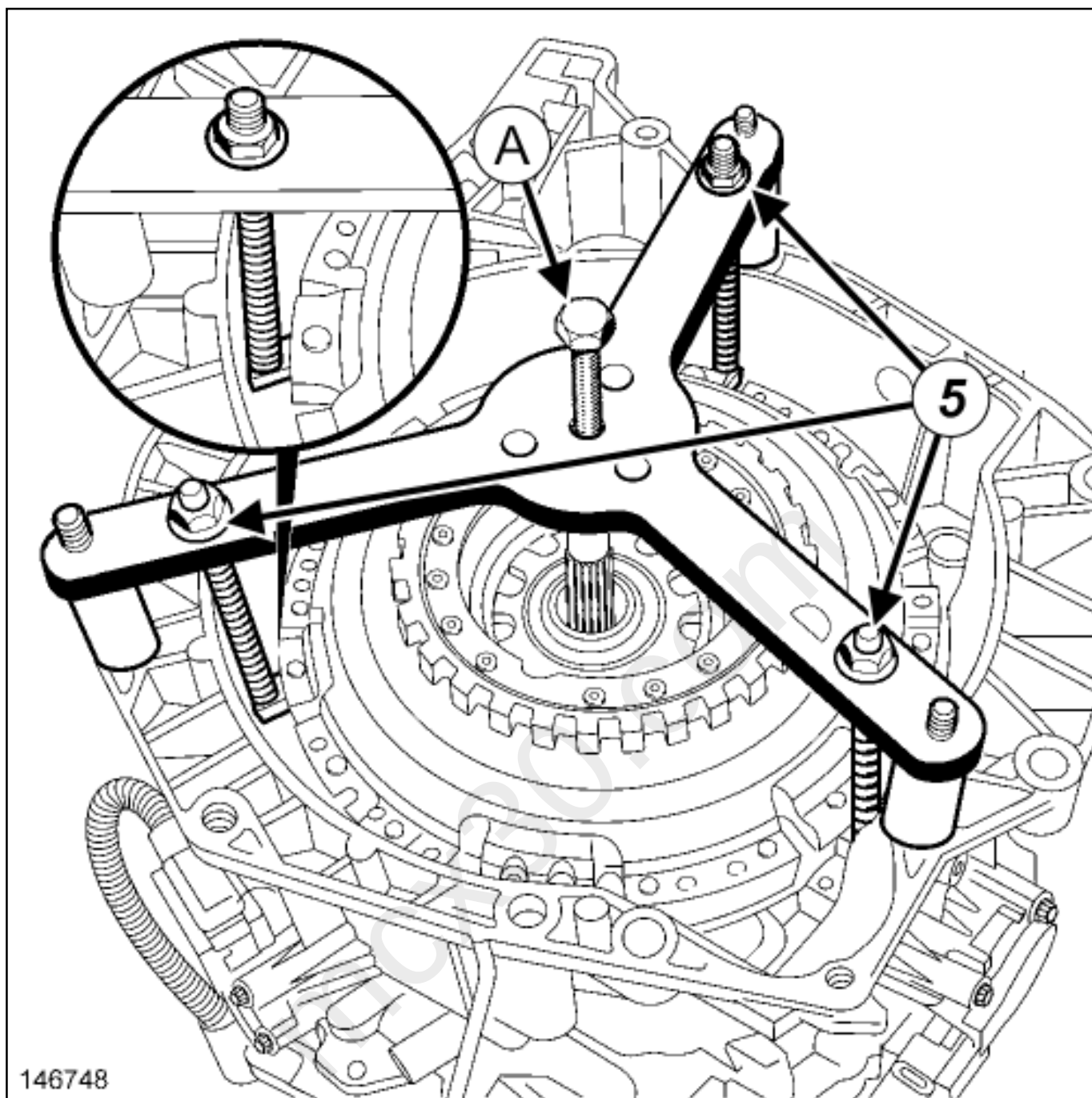
the part connecting with the clutch plate and the small diameter input shaft.



Remove the small diameter clip(2) using snap ring pliers.



Fit the toolClamp for clutch housing(Emb. 2028) (3) , with the tool's componentsTool for removal - refitting of clutch pressure plate and housing(Emb. 1952) but do not fit the locking nuts of the tool(4) .



Fit the extraction claws for the dual clutch(5) .

Position the extraction claws on a non-working section of the clutch pressure plate.

Adjust the extraction claws using the nuts.

Tighten the extraction bolt(A) of the dual clutch.

Remove the dual clutch.

REFITTING

1. REFITTING PREPARATION OPERATION

Use surface cleaner [Vehicle: Parts and consumables for the repair](#) to clean all of the removed parts.

parts always to be replaced:



[Differential output seal](#)



Parts always to be replaced: Input shaft clips.



CAUTION

Failure to observe the following procedure could damage the clutch pressure plate assembly.

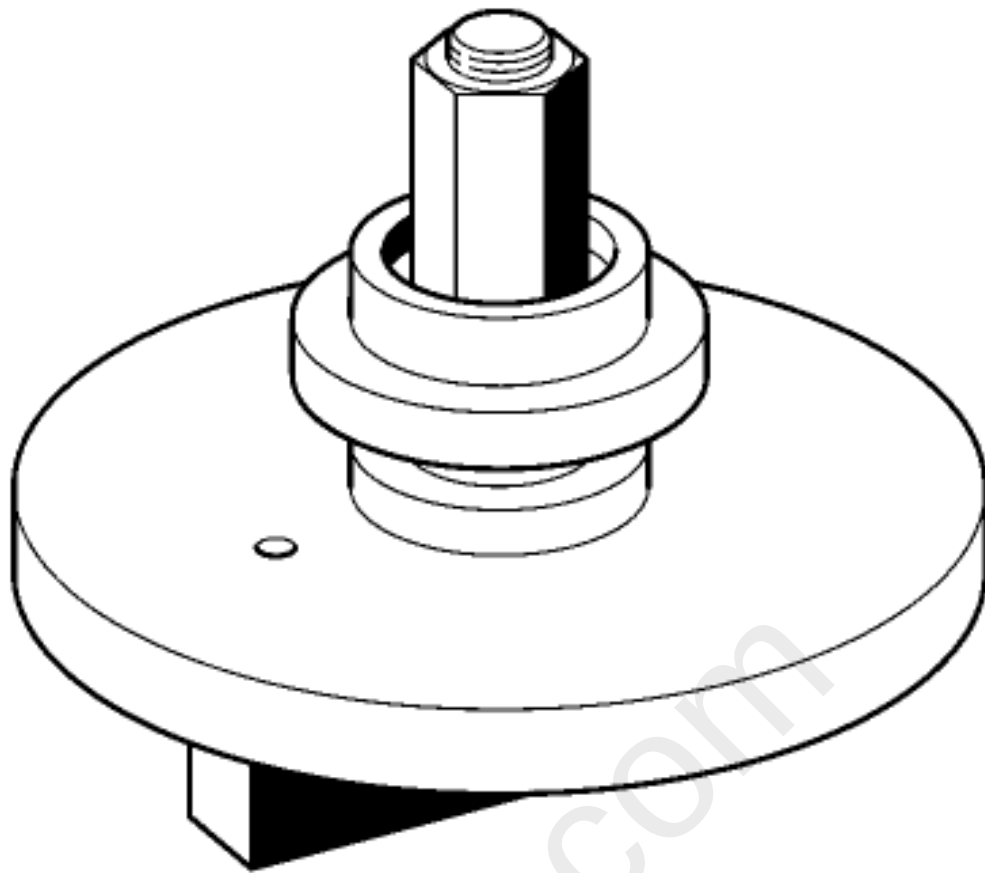


Note:

The following procedure is to be used only if refitting the old dual clutch.

The purpose is to reposition the automatic take-ups at their starting point.

1- IF REFITTING THE OLD DUAL CLUTCH, APPLY THE FOLLOWING PROCEDURE:



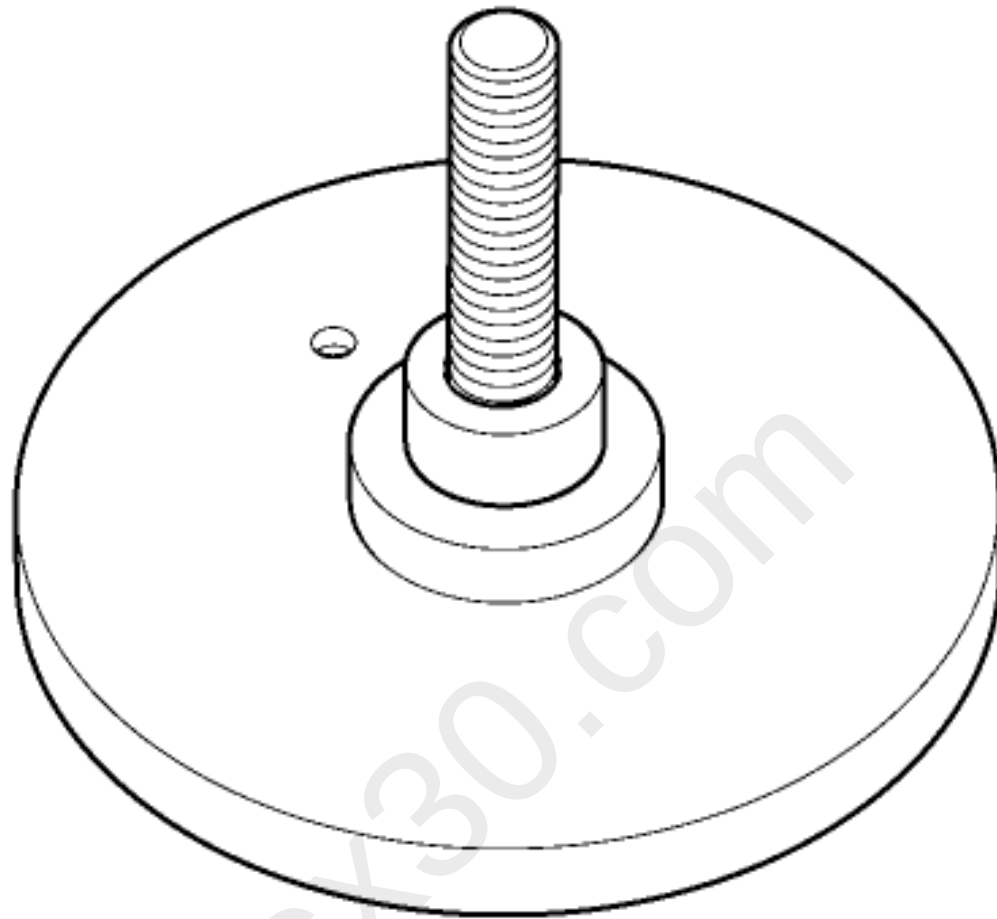
19919

Note:



To reposition the automatic take-up and lock the mechanisms, use the tool Clutch compression tool for rearming the compensation system.(Emb. 1604) with

Clutch pressure plate rearming tools(Emb. 1951) .

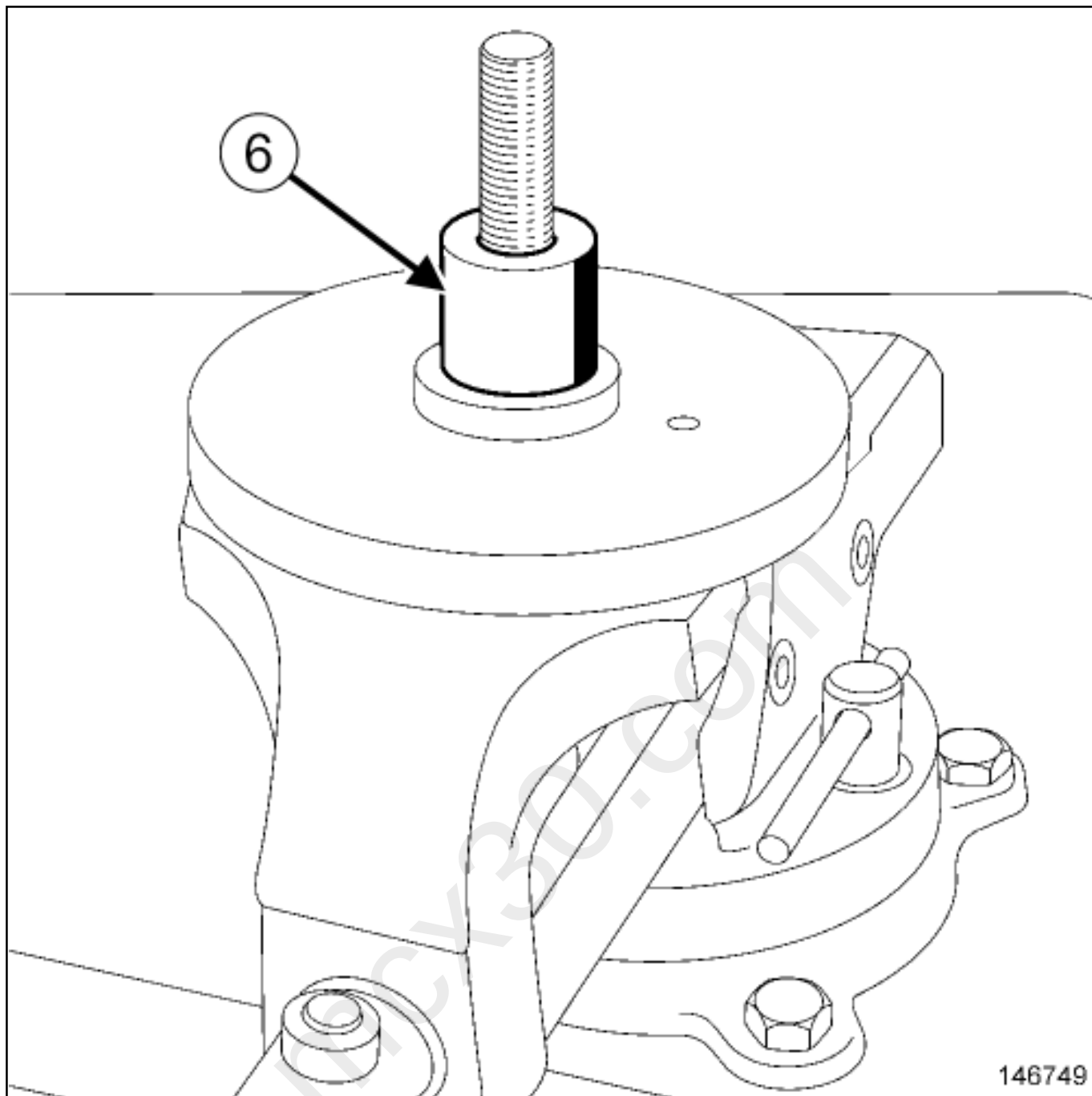


20754



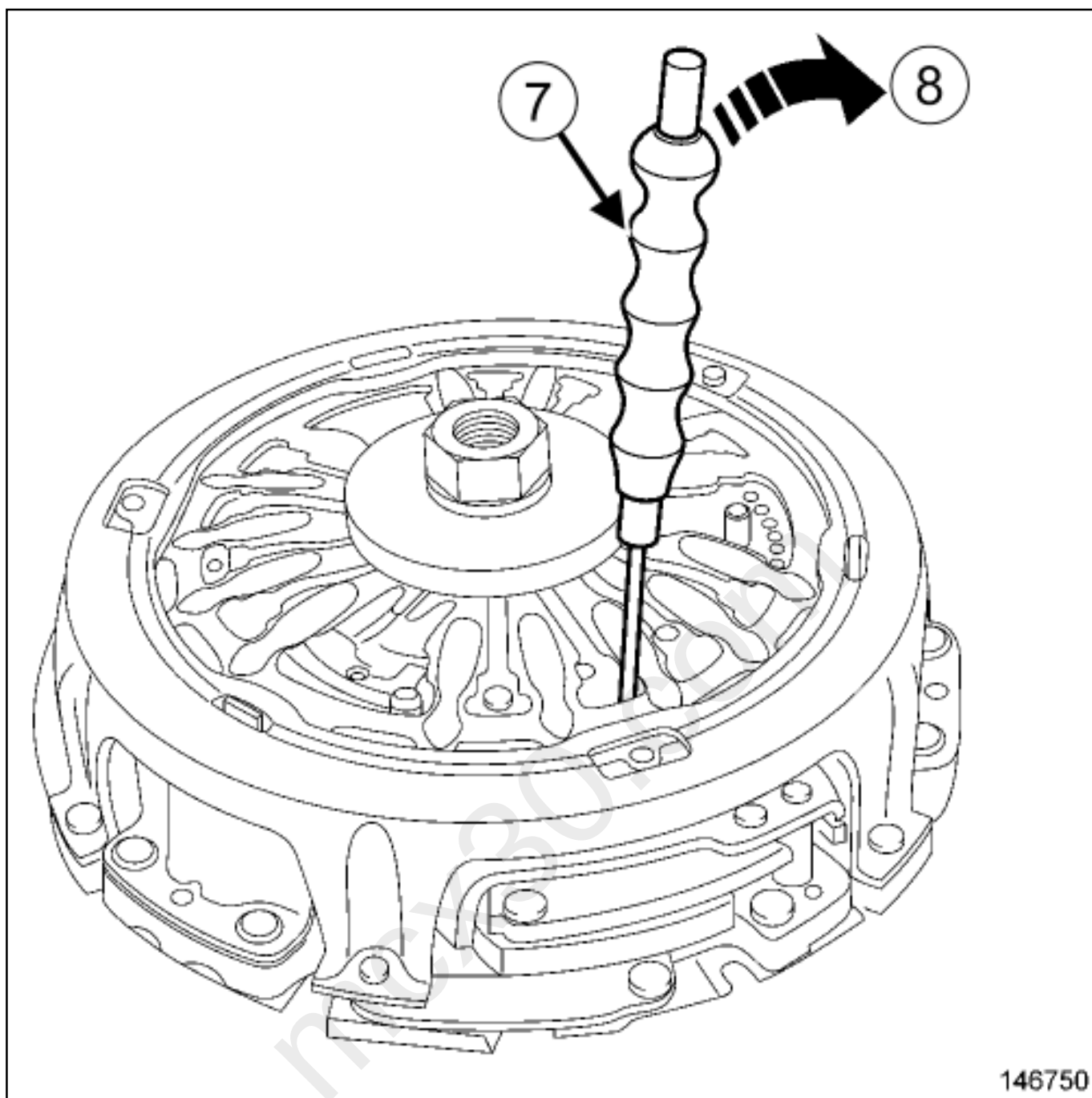
Place the base of toolClutch compression tool for rearming the compensation system.(Emb. 1604)
in a vice.

1)REPRIMING THE LARGE DIAMETER DIAPHRAGM



Position the dual clutch on the base.

Position the clutch plate centring device(6) .



Note:

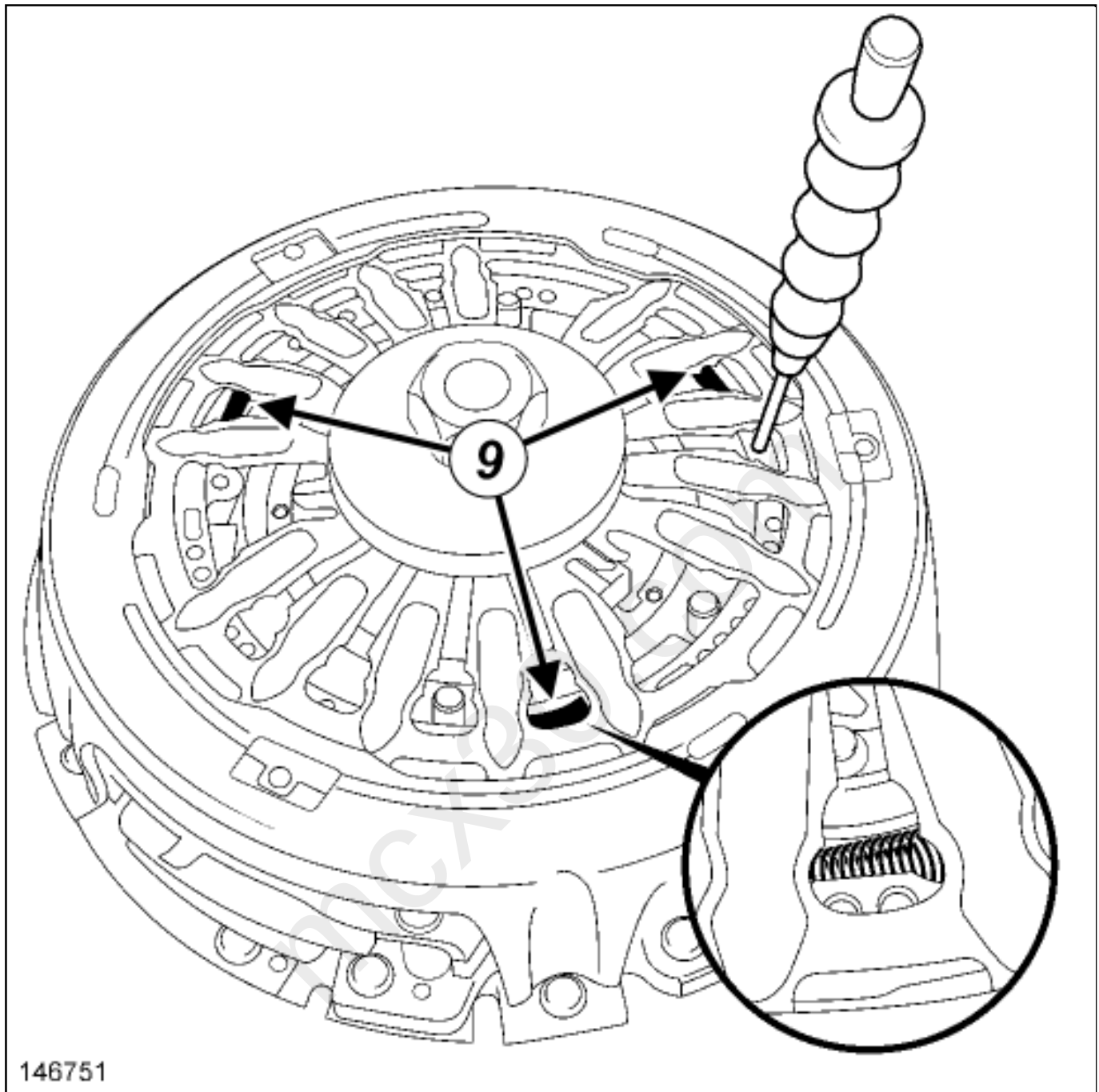


In some cases, the automatic take-up is tightly locked.

It is advised to use two people for this operation.

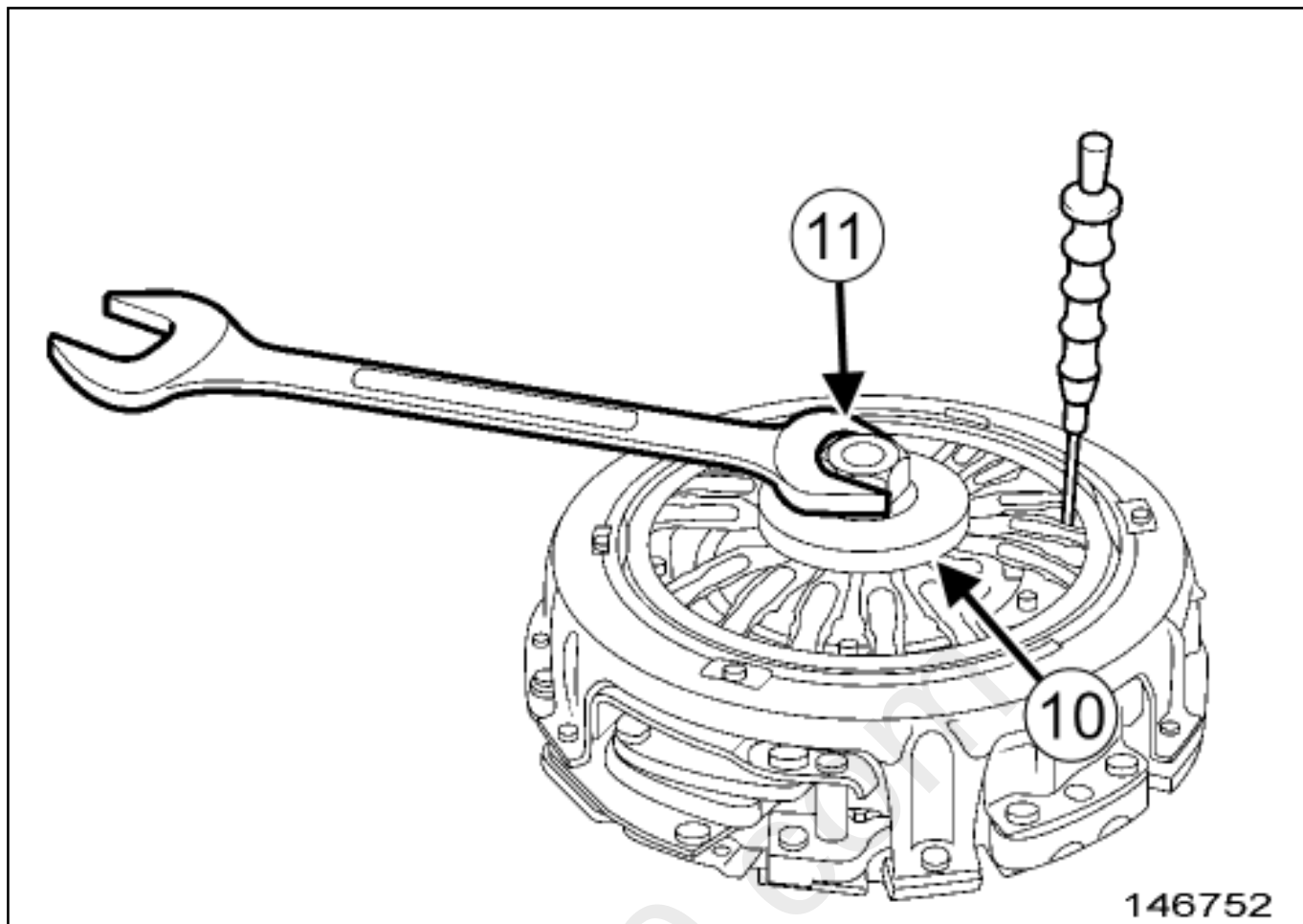
Reset the automatic take-up of the large diameter diaphragm using a roll pin punch(7) .

Turn the back-plate of the automatic take-up of the large diameter diaphragm by(8) .



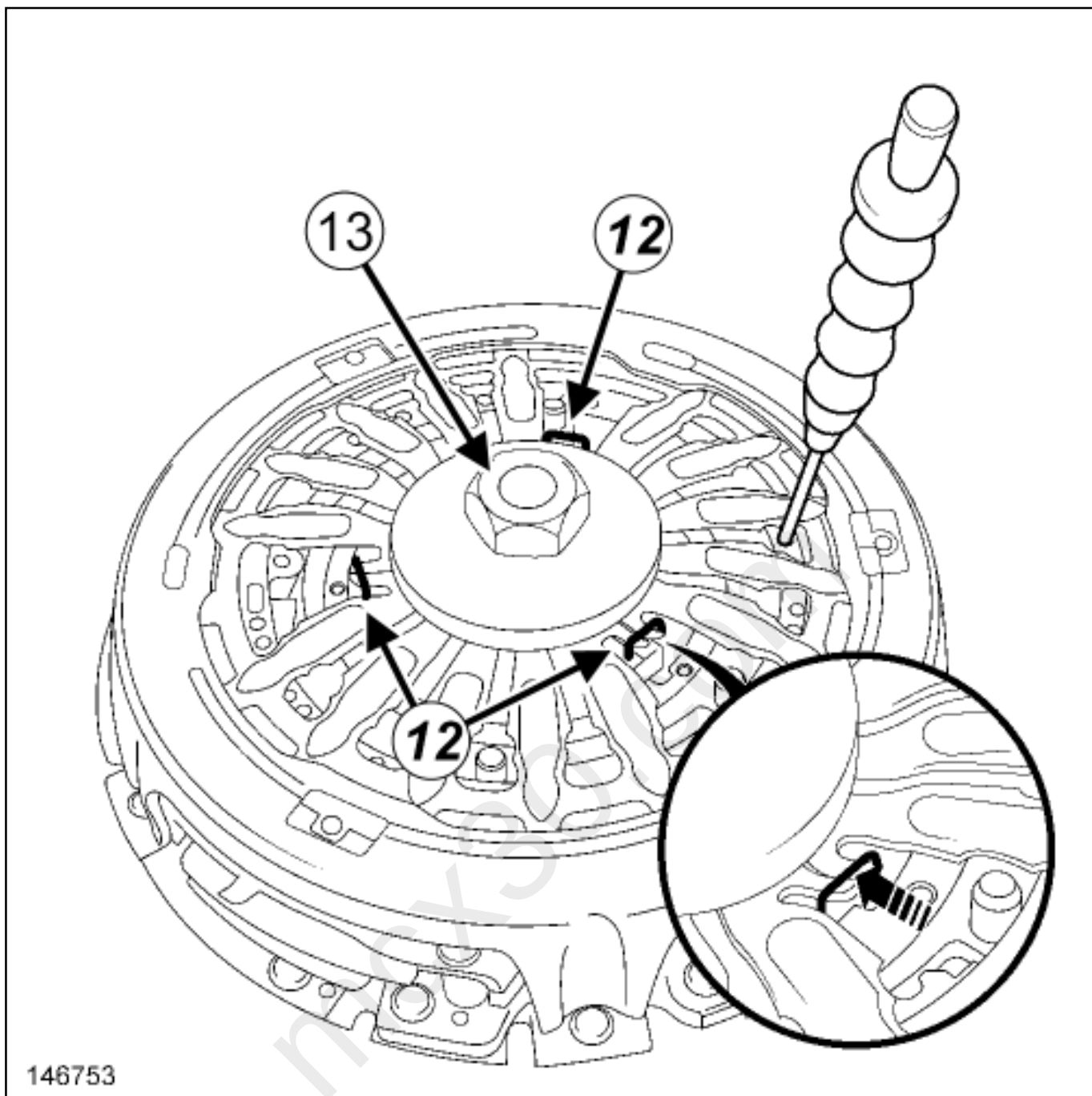
Compress the springs of the automatic take-up of the large diameter diaphragm(9) .

Keep the back-plate of the automatic take-up of the large diameter diaphragm reamed using the roll pin punch.



Position the Clutch pressure plate rearming tools([Emb. 1951](#)) (10) .

Tighten the nut (11) until the pressure plate is compressed.



Engage the three clips(12) .

Loosen the nut(13) while keeping the clips in place.

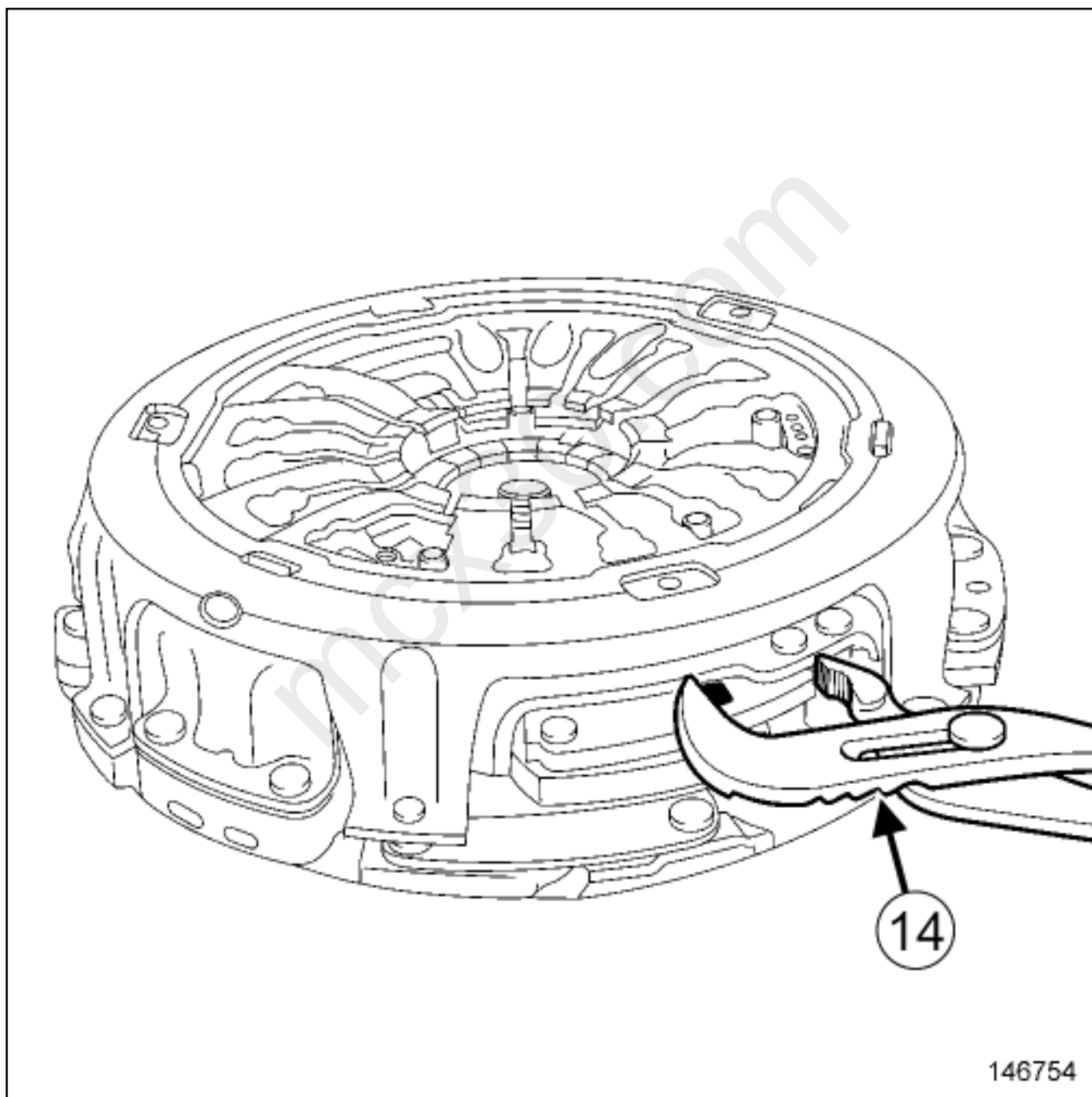
Remove the toolClutch pressure plate rearming tools(Emb. 1951) .

Note:



In some cases, the automatic take-up is tightly locked.

It is advised to use two people for this operation.

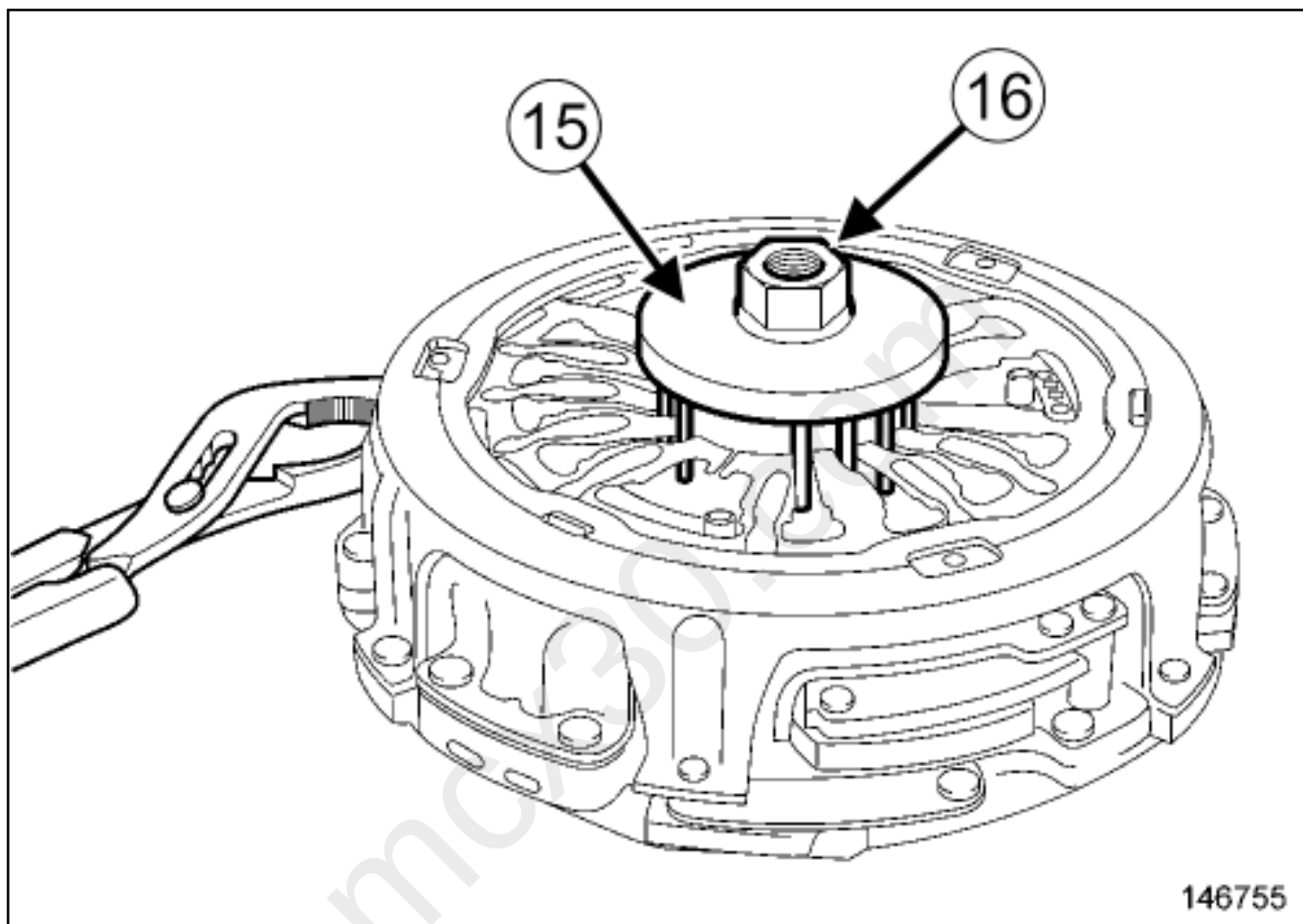


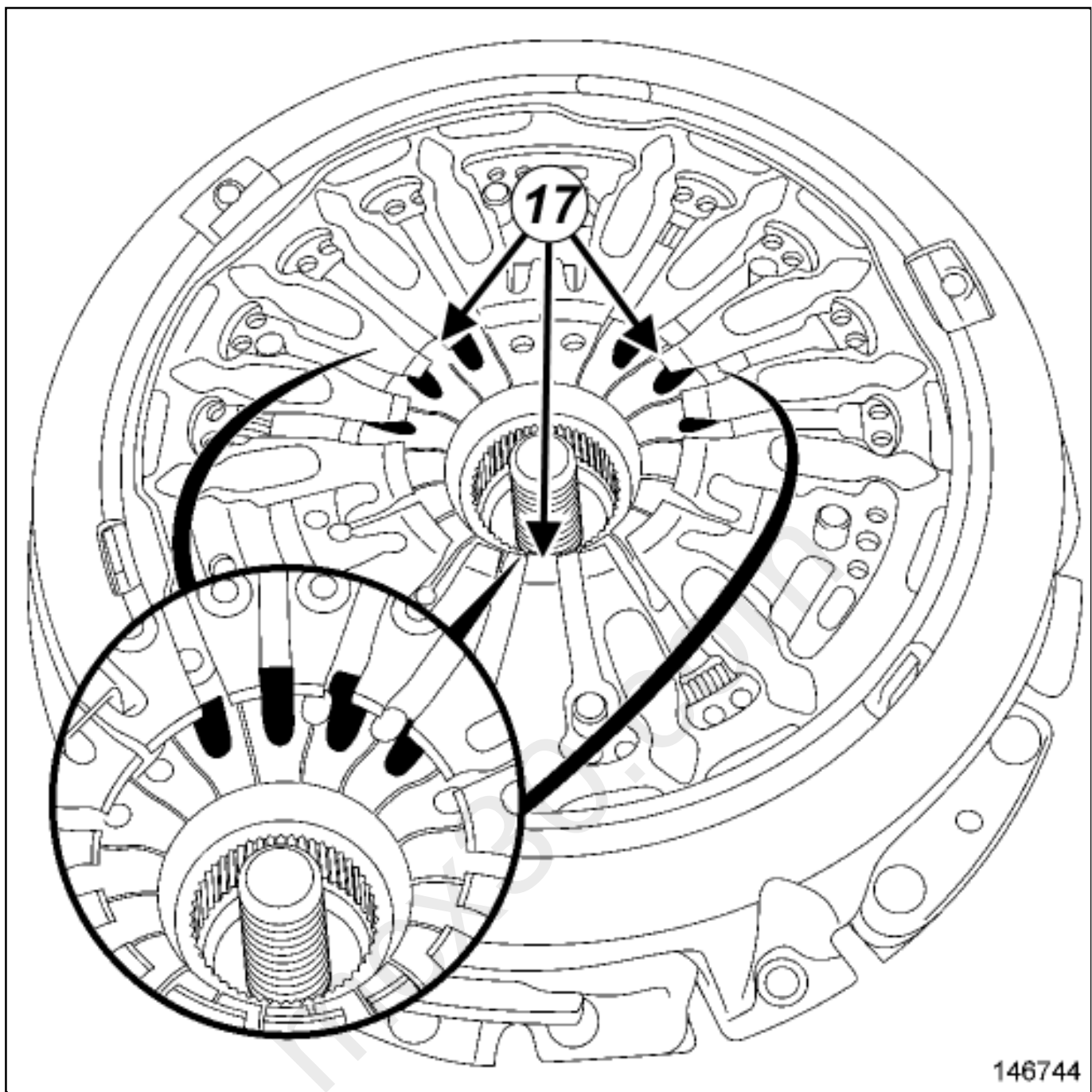
Reset the automatic take-up of the small diameter diaphragm using combination pliers(14) .

Note:



Hold the automatic take-up of the small diameter diaphragm using the combination pliers during the entire operation.





Position the Clutch pressure plate rearming tools([Emb. 1951](#)) ([15](#)) .

Tighten the bolt([16](#)) until spring finger([17](#)) in the small diameter diaphragm is locked.

Check that all the spring fingers([17](#)) are engaged in the holes of the small diameter diaphragm.

Loosen the bolt([16](#)) .

Remove the toolClutch pressure plate rearming tools([Emb. 1951](#)) .

2- IF REFITTING A NEW DUAL CLUTCH, APPLY THE FOLLOWING PROCEDURE:

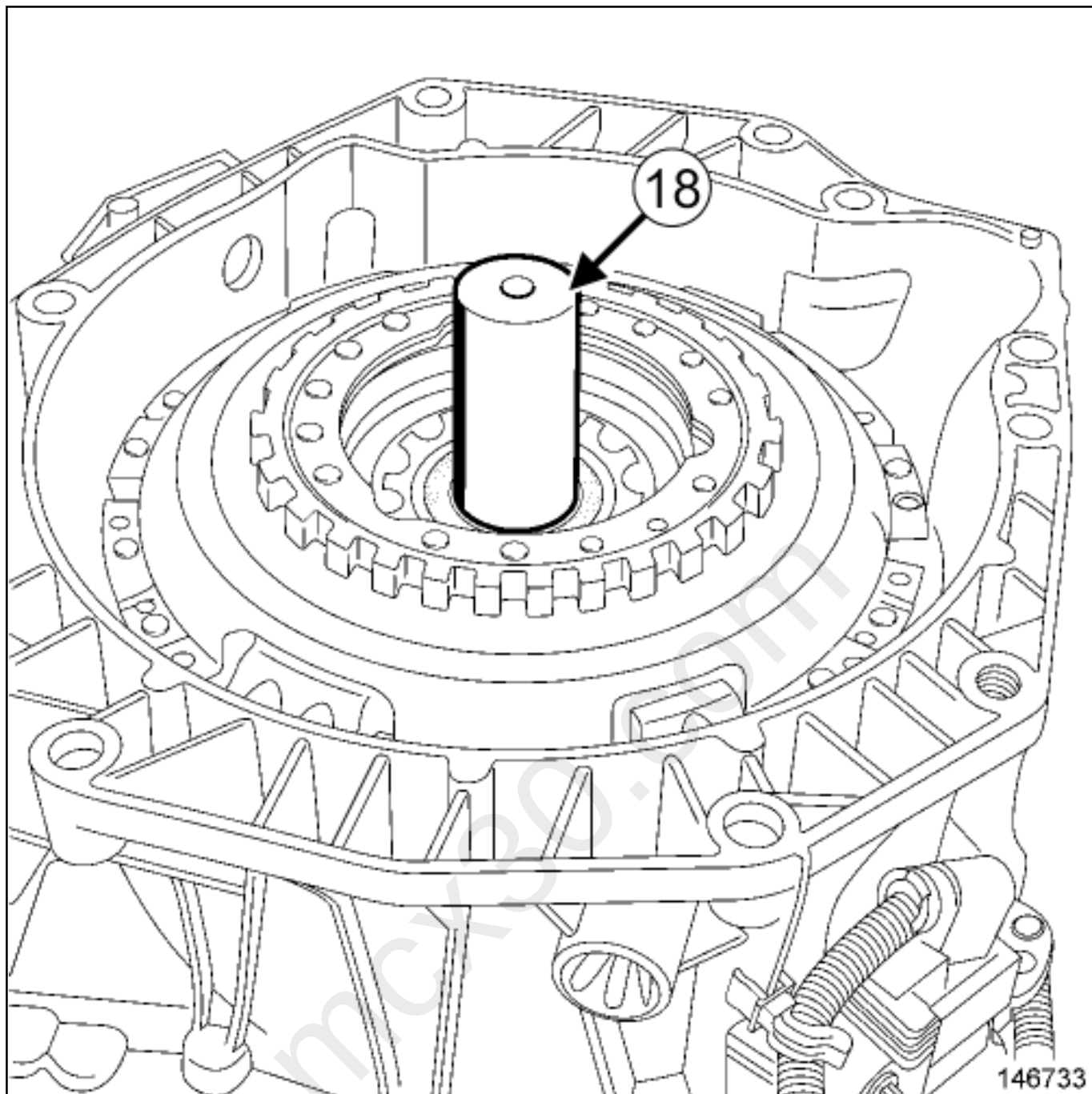


Note:

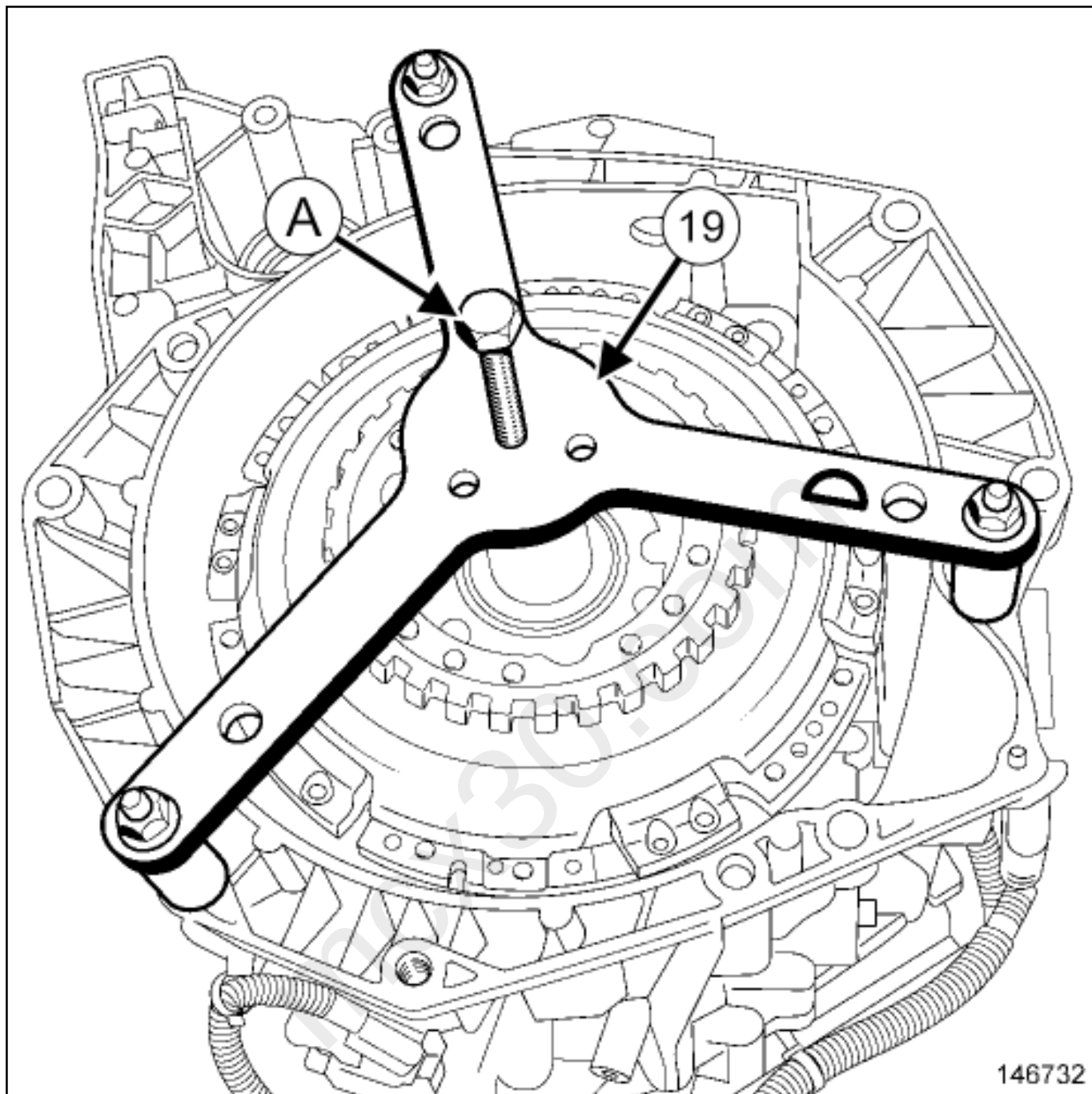
The dual clutch is supplied with the diaphragms already compressed.

2. REFITTING OPERATION

Grease the mating faces of the input shafts before refitting the clutch [Vehicle: Parts and consumables for the repair](#) .



Fit the dual clutch insertion socket(18) .



146732



Fit the tool Clamp for clutch housing (Emb. 2028) (19), with the tool's components Tool for removal - refitting of clutch pressure plate and housing (Emb. 1952) fitted with the dual clutch insertion socket.



Tighten the bolt (A) of the dual clutch insertion socket until the groove of the clip is visible.

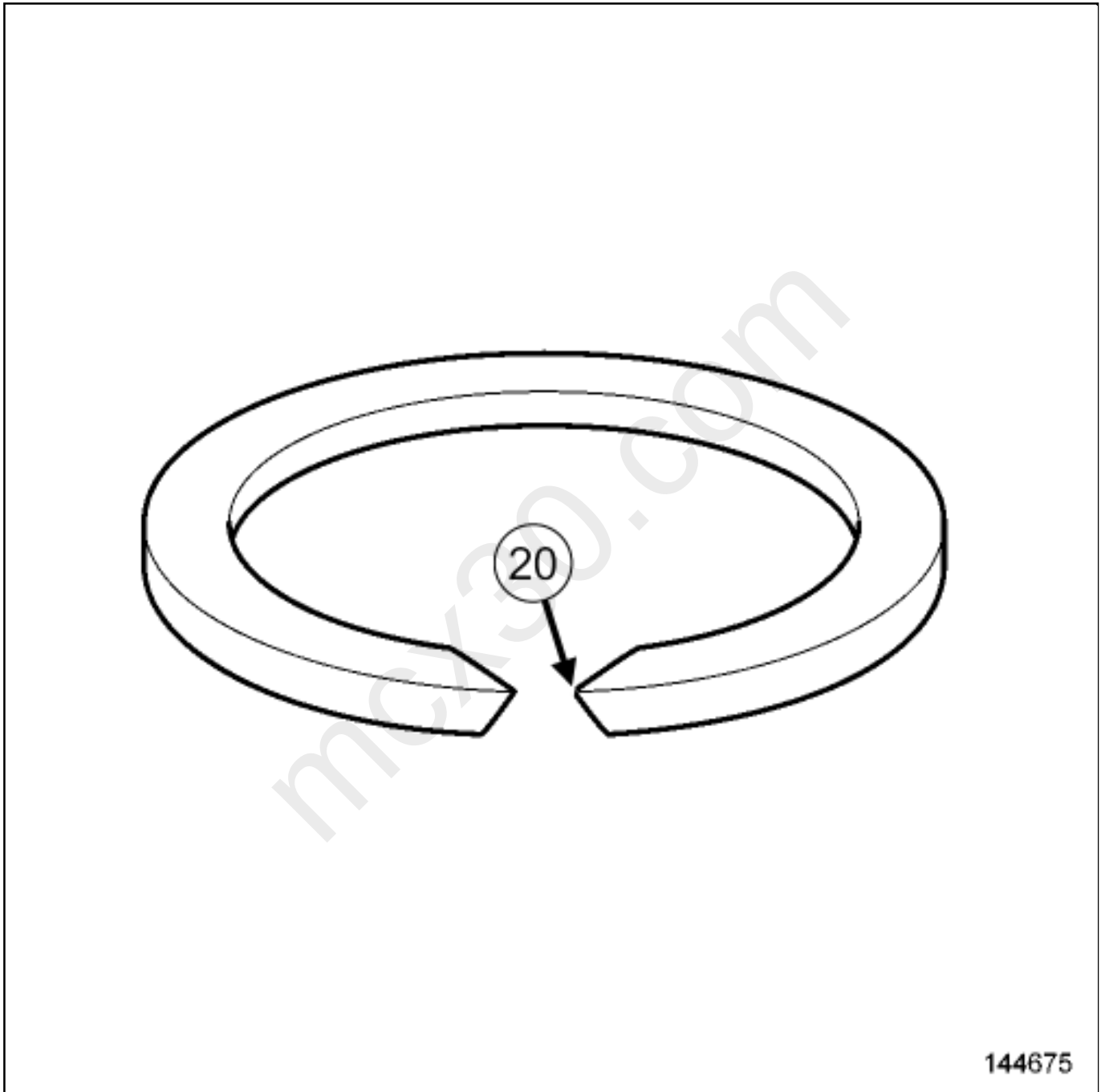


Remove:

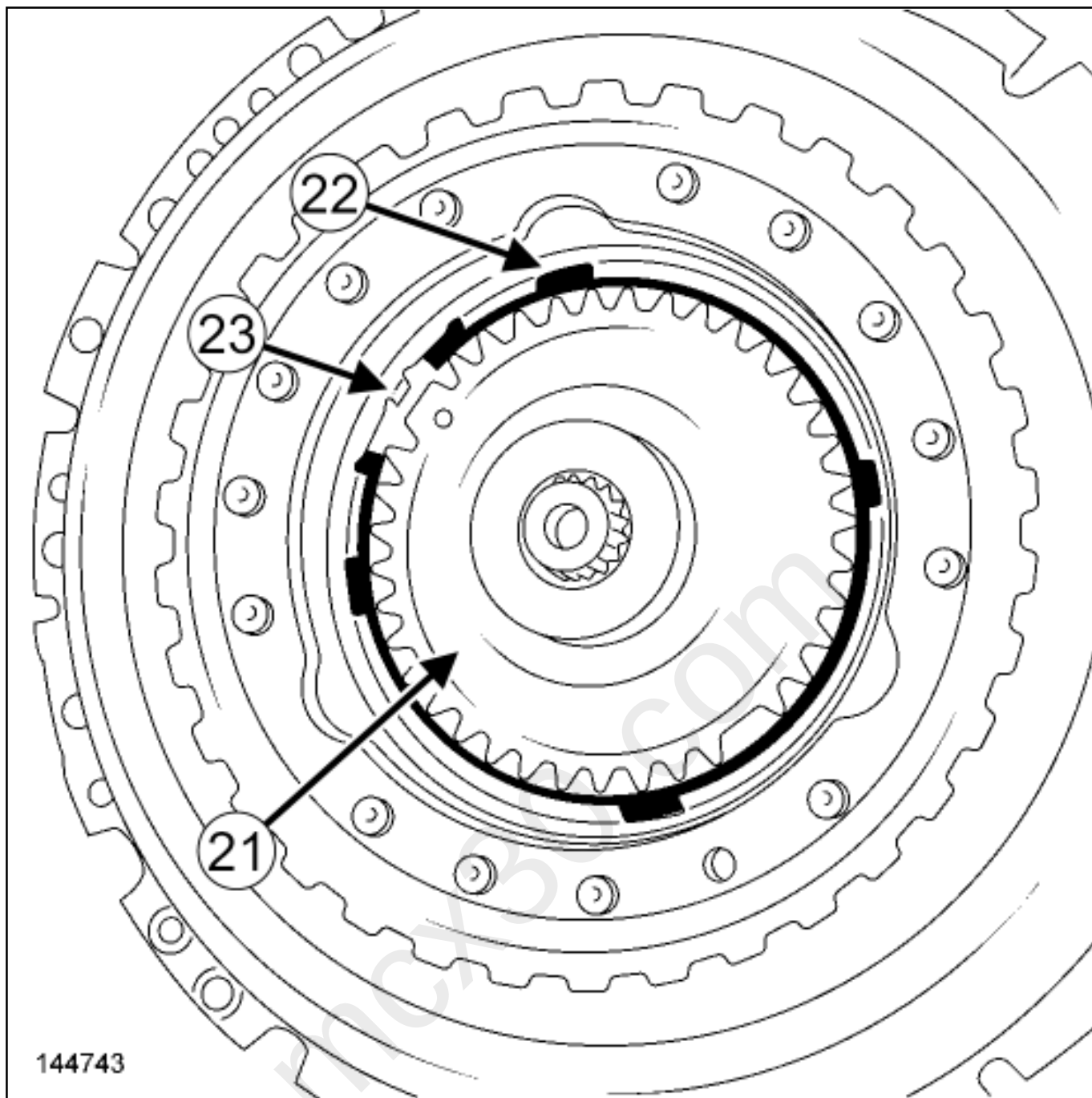


the toolTool for removal - refitting of clutch pressure plate and housing(Emb. 1952) and Clamp for clutch housing (Emb. 2028) ,

the dual clutch insertion socket.



Refit a new small diameter clip using snap ring pliers, taking care to position the pointed part of the clip(20) upwards.



Refit:



the part connecting with the clutch plate and the small diameter input shaft(21) , taking care with the foolproofing,



the large diameter clip(22) , taking care to position it correctly in relation to the lug(23) .

3. FINAL OPERATION