



2 Transmission

20 CLUTCH

21 MANUAL GEARBOX

29 DRIVESHAFT

CB1A

AUGUST 2000

EDITION ANGLAISE

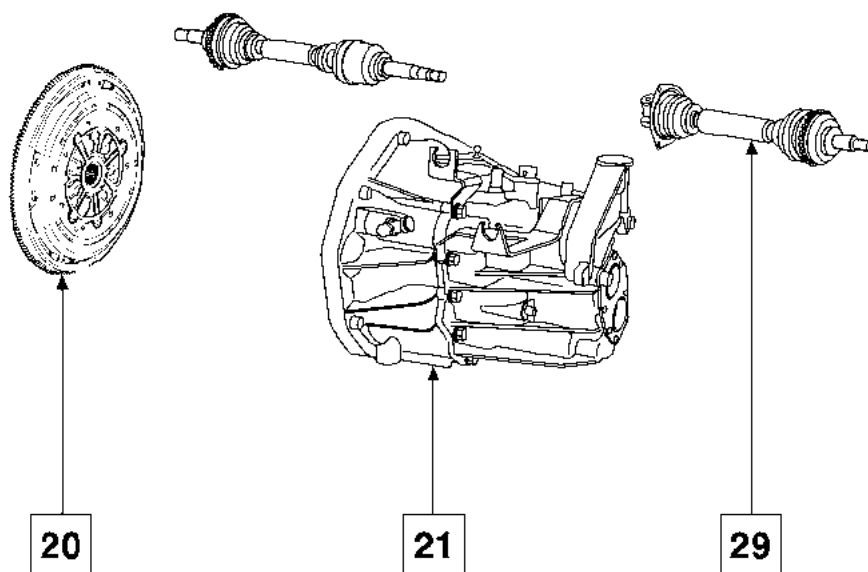
"The repair methods given by the manufacturer in this document are based on the technical specifications current when it was prepared.

The methods may be modified as a result of changes introduced by the manufacturer in the production of the various component units and accessories from which his vehicles are constructed."

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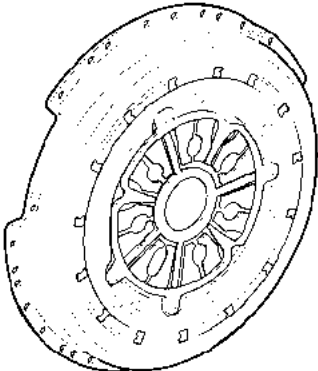
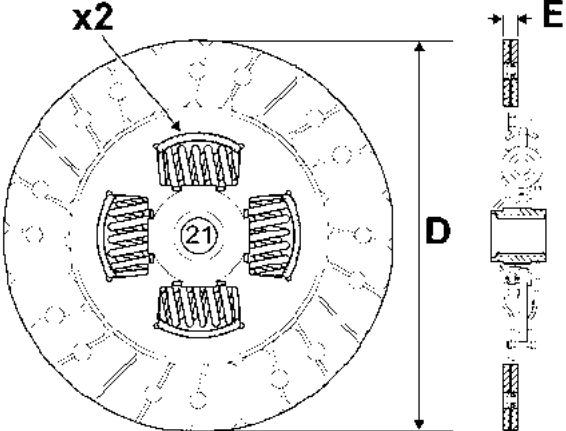


Transmission

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CLUTCH
Mechanism - Plate

Vehicle type	Engine type	Mechanism	Disc
CB1A	L7XJ	 A-17401 200	<p>21 splines D = 235 mm E = 8.4 mm</p>  A-17402

Single plate dry clutch.
Clutch stop hydraulic control.
Clutch self-adjuster mechanism.

REPLACEMENT (after dismantling the gearbox).

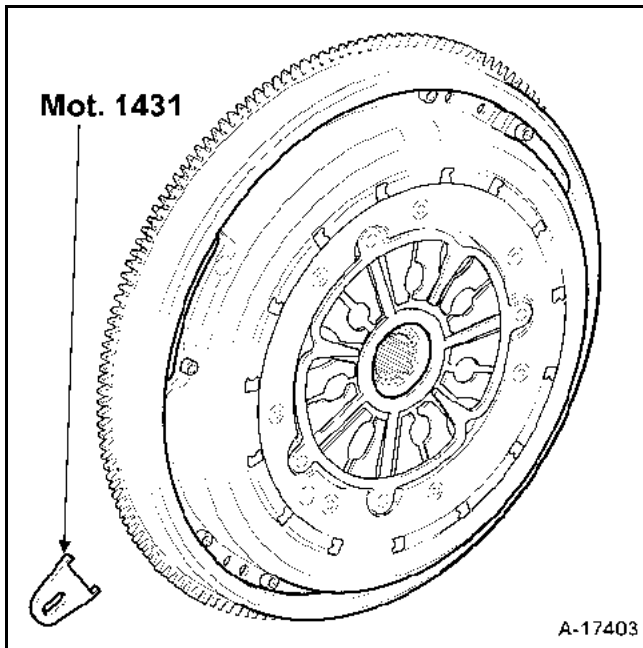
REQUIRED SPECIAL TOOLS	
Mot. 1431	Flywheel locking tool
Emb. 1604	Clutch compressor

TIGHTENING TORQUE (in daNm)	
Mechanism mounting bolt	1.4



REMOVAL

Fit the flywheel locking tool **Mot. 1431**.

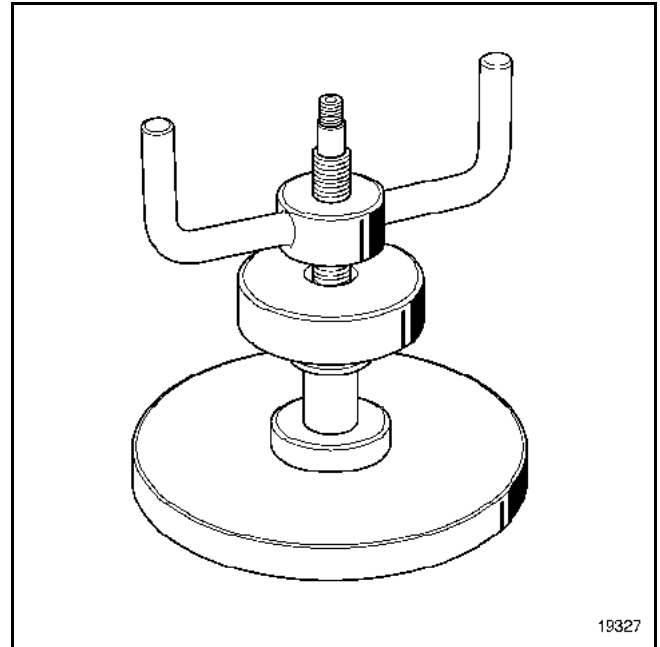


Remove the mechanism mounting bolts.

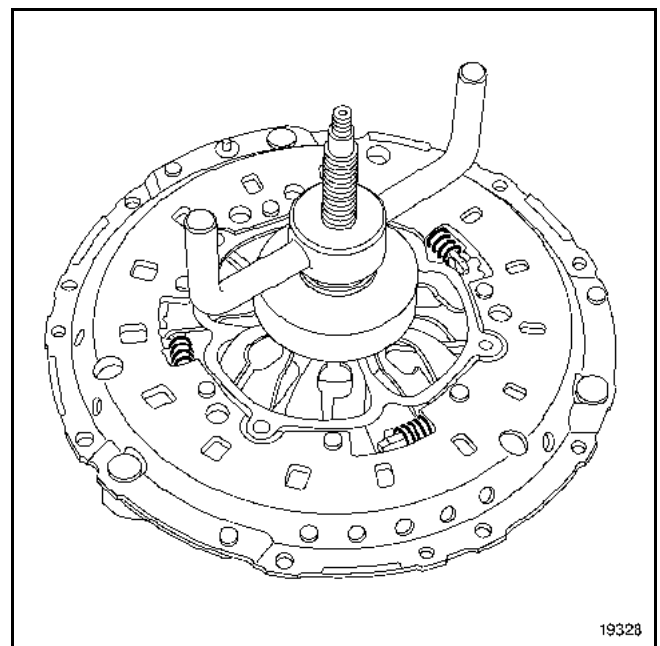
Check and replace any faulty parts.

REFITTING

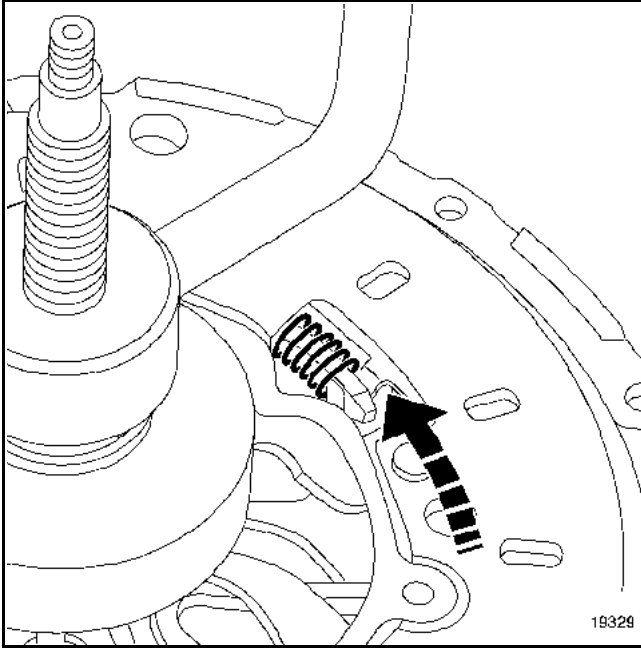
Use tool **Emb. 1604** to refit the mechanism.



Compress the diaphragm using tool **Emb. 1604**.



Compress the three springs in the direction shown below.



Precautions which must be followed when repairing the clutch:

The hubs of the clutch plates are nickel plated to improve their sliding performance.

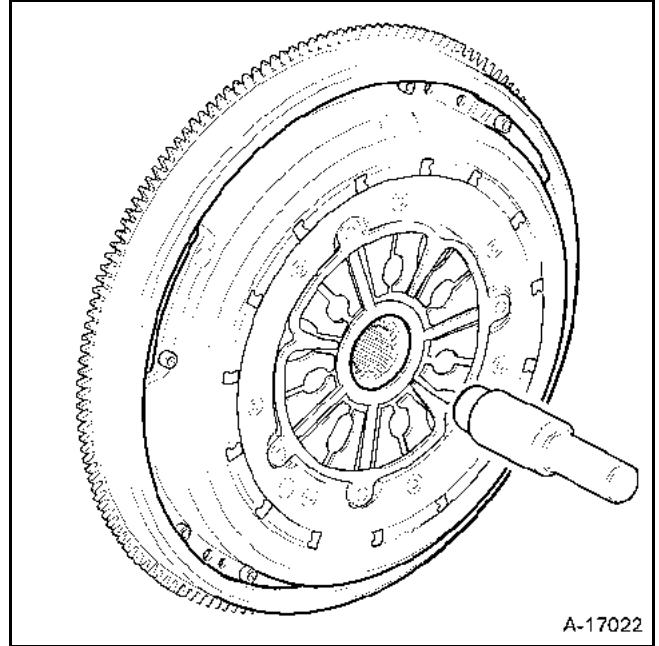
Clean the splines of the clutch shaft and refit the assembly without lubricant.

Degrease the friction face of the flywheel.

Insert the plate (offset (A) from the hub on the flywheel side).

ALIGNMENT

Use the plastic centring tool found in the clutch kit.



Tighten progressively in a star pattern, then tighten the mounting bolts to the correct torque.

Remove the immobilising tool **Mot. 1431**.

REPLACEMENT

REQUIRED SPECIAL TOOLS

Mot. 1431	Flywheel locking tool
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TIGHTENING TORQUE (in daNm)



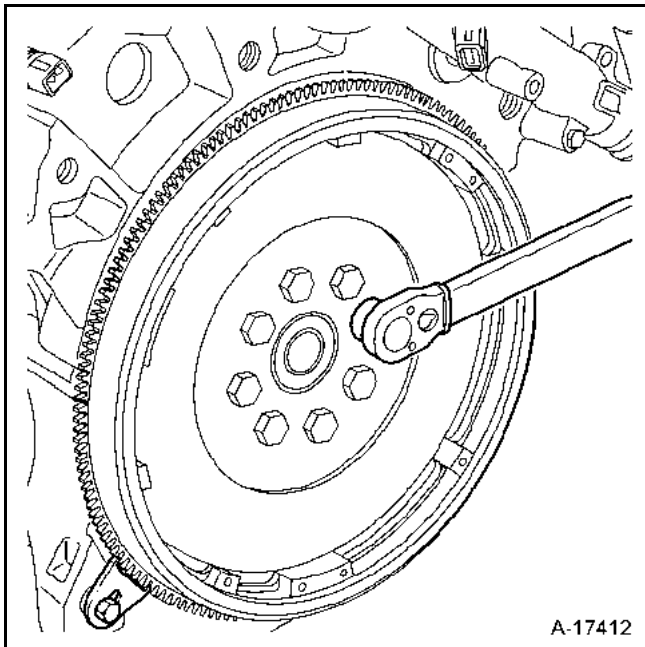
Flywheel bolts	2 + 60 degrees
----------------	----------------

REMOVAL

Having removed the friction plate, remove the flywheel mounting bolts. The bolts must not be reused.

NOTE:

- The friction face cannot be straightened.
- Replace the flywheel if it has been damaged.



A-17412

REFITTING

Clean the holes for the flywheel mounting bolts on the crankshaft.

Degrease the pressure face of the flywheel on the crankshaft.

Refit the flywheel and tighten the new bolts using tool **Mot. 1431**.

NOTE:

- The flywheel mounting bolts must be uniformly tightened.
- The flywheel mounting bolts are coated with a locking composite.

Remove tool **Mot. 1431**.

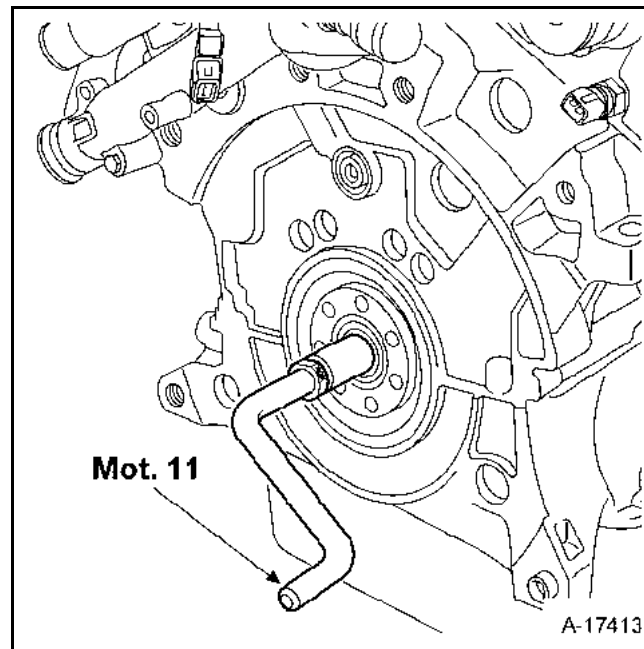
REPLACEMENT

This operation is carried out after the gearbox has been removed from the engine and the clutch and flywheel have been removed.

REQUIRED SPECIAL TOOLS	
Mot. 11	Bearing extractor

REMOVAL

Extract the bearing using tool **Mot. 11**.



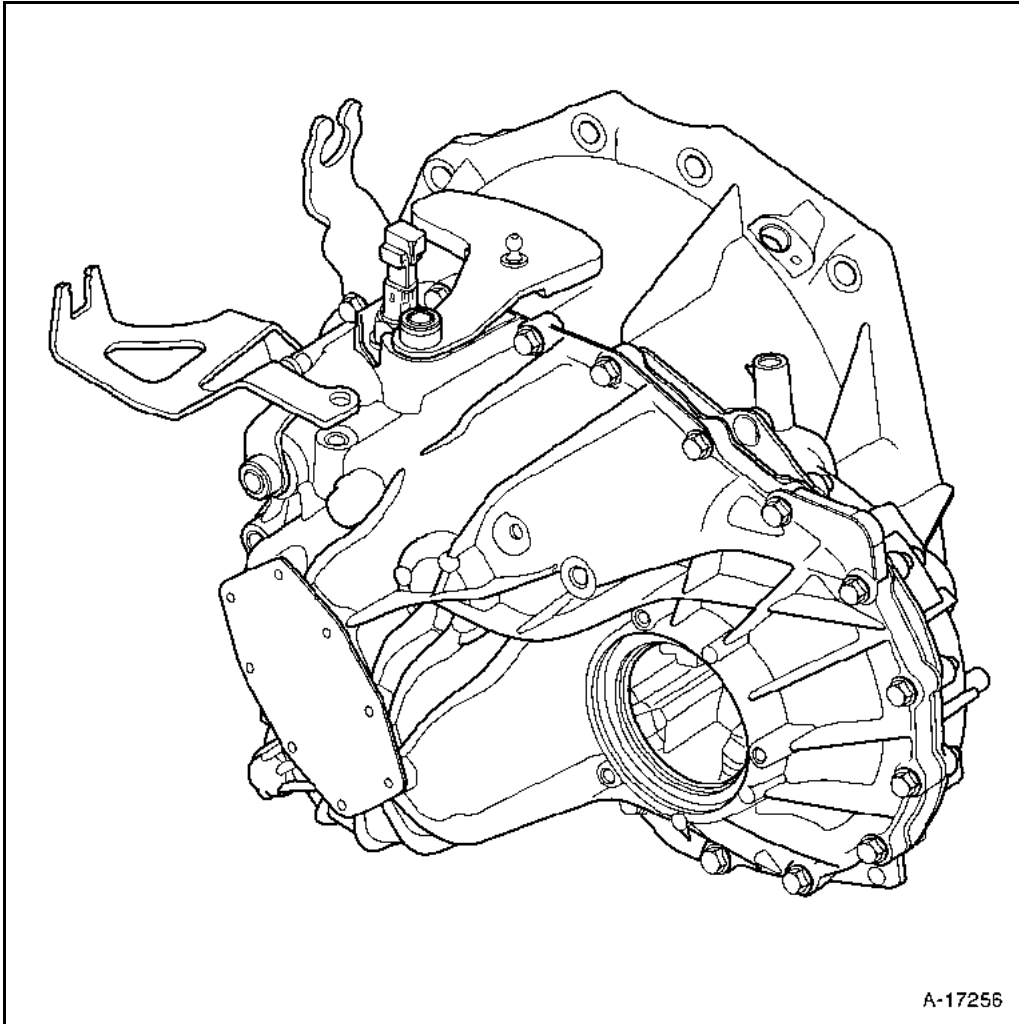
REFITTING

The new bearing is supplied pre-lubricated. Only clean the outside.

Coat the outside of the bearing with **Loctite FRENBLOC**.

Fit the new bearing using a tube against the exterior ring of the bearing.

The vehicle is fitted with a **PK6** manual gearbox.



Index	Vehicle type	Torque	Speedometer	1 st	2 nd	3 rd	4 th	5 th	6 th	Reverse gear
012	CBA1	$\frac{17}{64}$	Not applicable	$\frac{11}{43}$	$\frac{19}{40}$	$\frac{29}{43}$	$\frac{39}{43}$	$\frac{39}{35}$	$\frac{41}{31}$	$\frac{24}{47}$

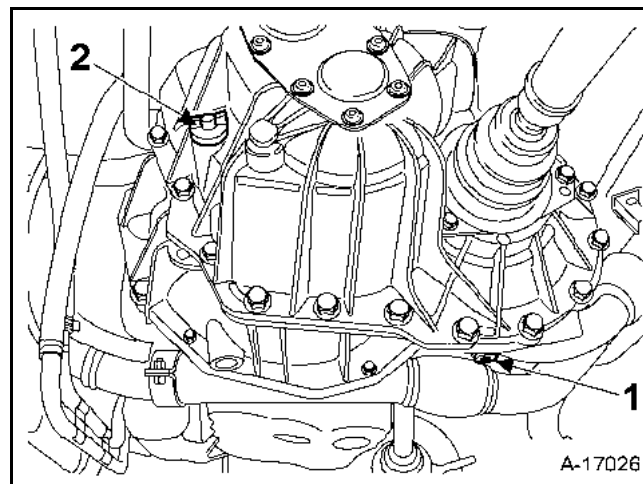
Capacity - Lubricants

CAPACITY (in litres)

6-speed gearbox	
PK6	2.2

Type and viscosity
ETL 8275, 75W 80W

CHECKING LEVEL

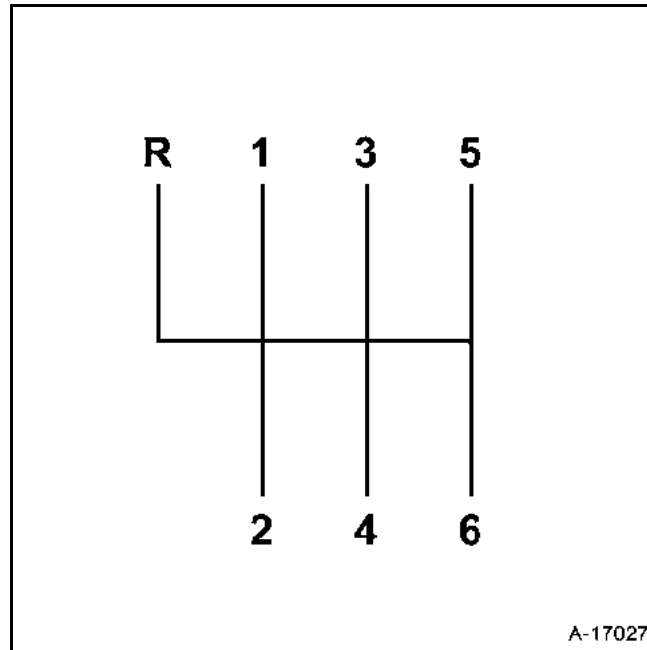


1. Drain plug
2. Filler neck

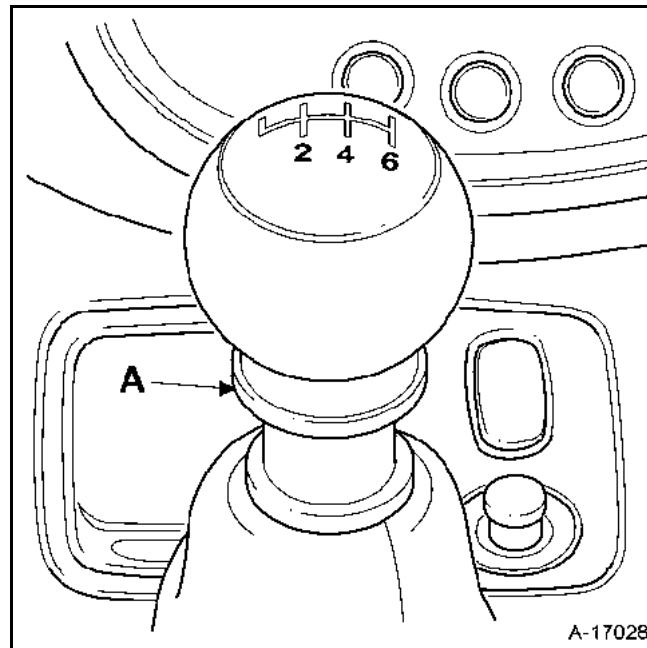
Fill to 2.2 litres or until the lubricant level is 42 mm below the opening of the manual gearbox filler neck.

WARNING: the breather **MUST NOT** be removed when filling the gearbox with oil.

LAYOUT OF GEARS



To engage reverse gear, lift the ring (A) and move the lever.



TYPE	PACKAGING	PART NUMBER	COMPONENT
MOLYKOTE BR2	1 kg tin	77 01 421 145	Right-hand wheel splines
RHODORSEAL 5661	100 g tube	77 01 404 452	Pins, threaded selector switches and housing

Parts to be systematically replaced

- When they are removed:
- lip seals,
 - O-rings,
 - speedometer shaft and pinion.

TIGHTENING TORQUE (in daNm)

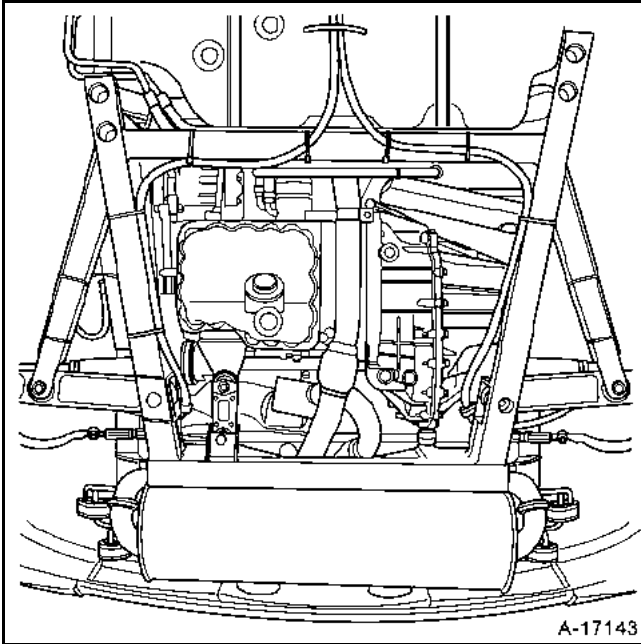


Gearbox mounting bolt

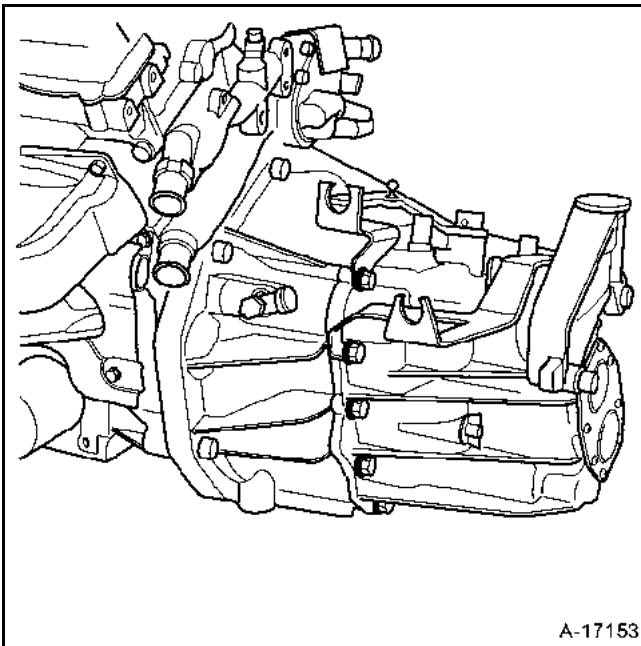
6.2

REMOVAL

Remove the engine and gearbox assembly.



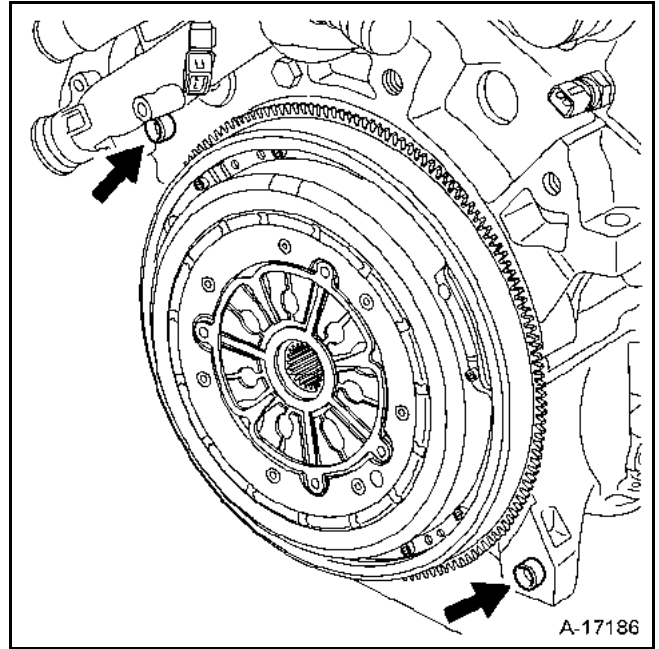
Disconnect the gearbox from the engine.



REFITTING

Ensure that the engine- gearbox centring rings are present and correctly positioned.

Replace the gearbox on the engine. Tighten the bolts to the correct torque.



Refit:

- the engine and gearbox assembly,
- the chassis sub-frame.

REAR DRIVESHAFT
Identification

Seal	Right-hand shaft	Left-hand shaft	Wheel side	Gearbox side
BJ109	X	X	X	
RC490		X		X
TJ100	X			X

Consumables

Type	Quantity	Component concerned
Loctite SCELBLOC	Coating	Stub-axle splines
NTG 2218	161 cc ± 10 cc	BJ109 seal
NTG 30B	195 cc ± 10 cc	TJ100 seal

REAR DRIVESHAFT Removal - Refitting

29

REQUIRED SPECIAL TOOLS

Rou. 604-01	Wheel hub locking tool
T. Av. 476	Ball joint extractor

TIGHTENING TORQUES (in daNm)



ABS mounting bolt	1.4
Brake calliper bolts	10
Shaft nut	28
Gearbox gaiter mounting bolt	1.5
Shock absorber mounting bolt	18
Suspension arm nut	17
Bearing rod nut	3.7
Wheel bolts	9
Bearing mounting nut	0.7

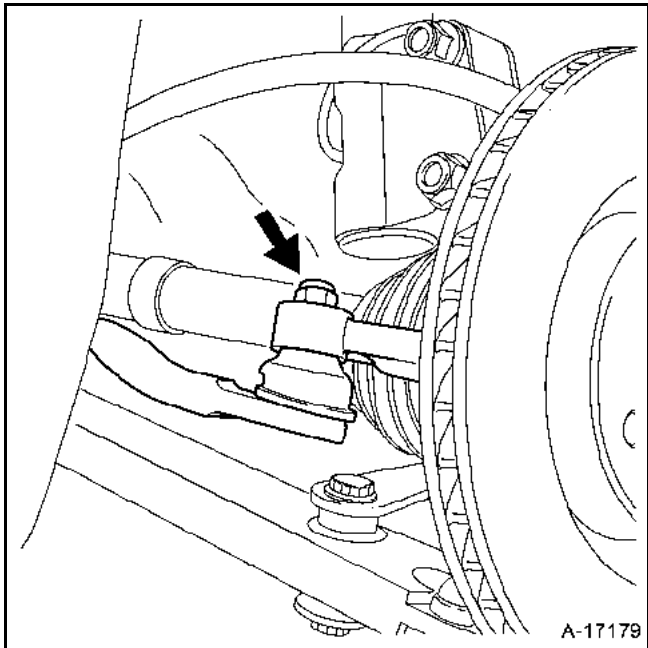
REMOVAL

Put the car on a two-post lift.

Drain the gearbox.

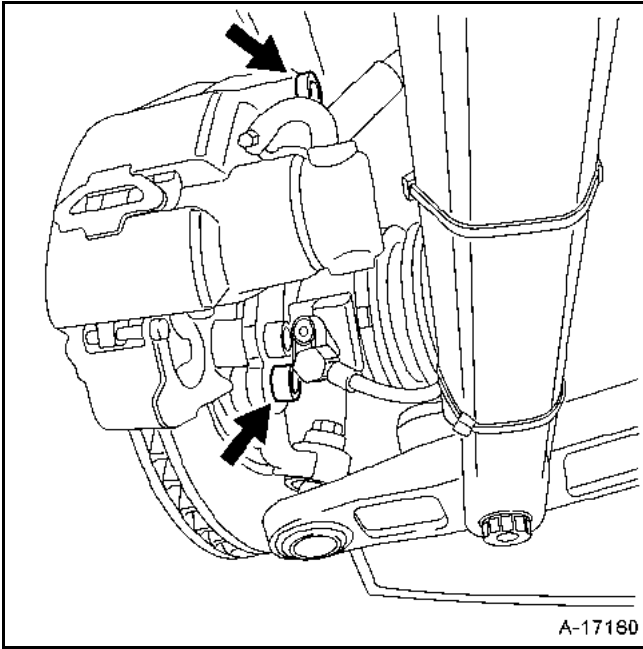
Remove:

- the wheel,
- the joint relay rod using tool **T. Av. 476**.

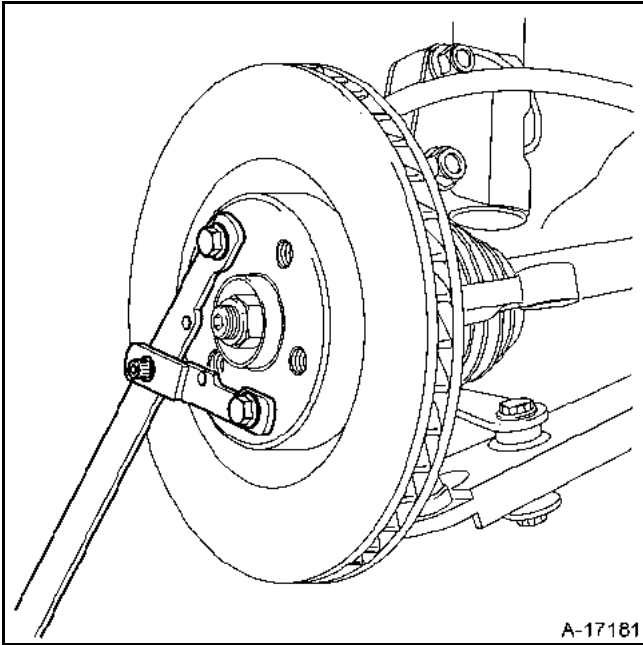


Remove:

- the ABS sensor,
- the brake caliper assembly.

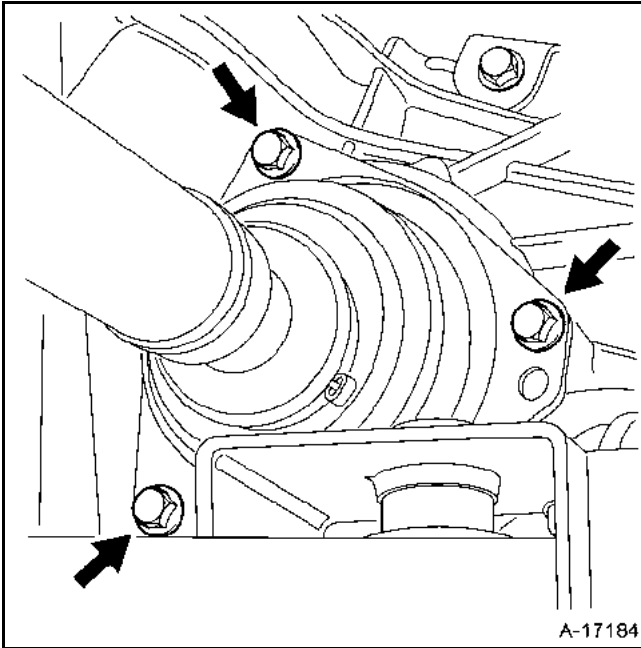


Remove the shaft nut using tool **Rou. 604-01**.



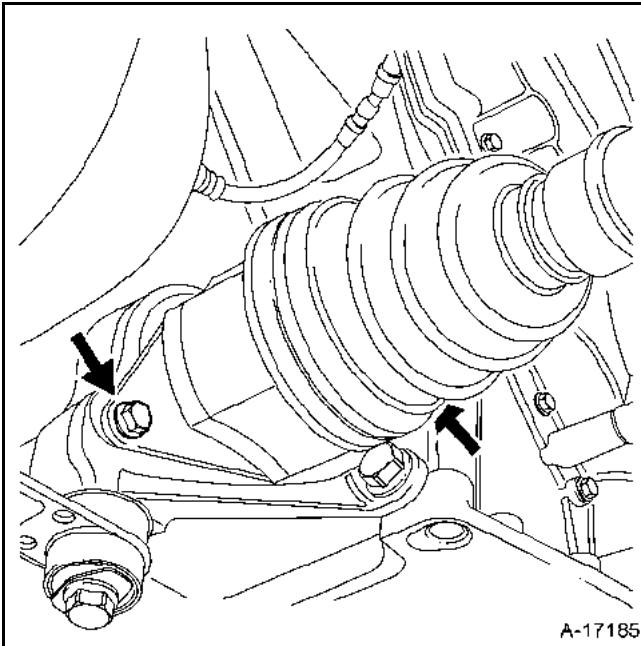
Left-hand side

Remove the three bolts from the gearbox.



Right-hand side

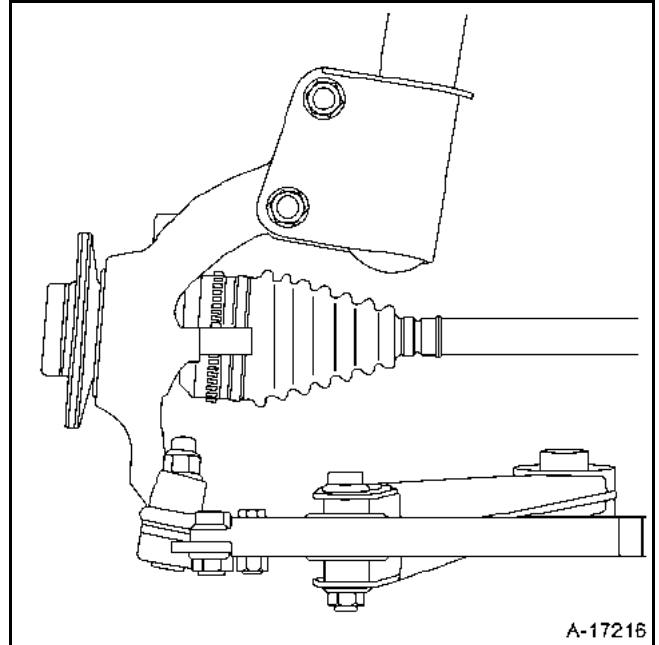
Remove the two bolts from the bearing mounting.



Both sides

Remove:

- the shock absorber mounting bolts,
- the driveshaft.



REFITTING

Right-hand side

Coat the splines of the seal on the end of the gearbox with **MOLYKOTE BR2B**.

Both sides

Fit the driveshaft in the hub, it should go in easily.

Continue the refitting procedure in the reverse order to removal. Observe the correct tightening torques.

Fill the gearbox with oil.

Press the brake pedal several times in order to bring the piston into contact with the pads.