

FRONT HUB CARRIER BEARING: REMOVAL - REFITTING



Note, one or more warnings are present in this procedure



Location and specifications (tightening torques, parts always to be replaced, etc.)[\(see 31A, Front axle components, Front hub carrier assembly: Exploded view\)](#) .

WARNING



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

- [\(see 31A, Front axle components, Front axle components: Precautions for the repair\)](#) ,
- [Vehicle: Precautions for the repair](#) .

CAUTION



■ In order not to damage the brake hose:

- do not tension the hose,
- do not twist the hose,
- check that there is no contact with the surrounding components.

CAUTION



■ In order to prevent irreversible damage to the front hub bearing:

- Do not loosen or tighten the driveshaft nut when the wheels are on the ground.
- Do not place the vehicle with its wheels on the ground when the driveshaft has been loosened or removed.

REMOVAL

1. REMOVAL PREPARATION OPERATION

- Position the vehicle on a two-post lift [Vehicle: Towing and lifting](#) .
- Remove the front wheel [\(see 31A, Front axle components, Front axle assembly: Exploded view\)](#) .
- Remove [\(see 31A, Front axle components, Front brake calliper assembly: Exploded view\)](#) :
 - the front brake pads,

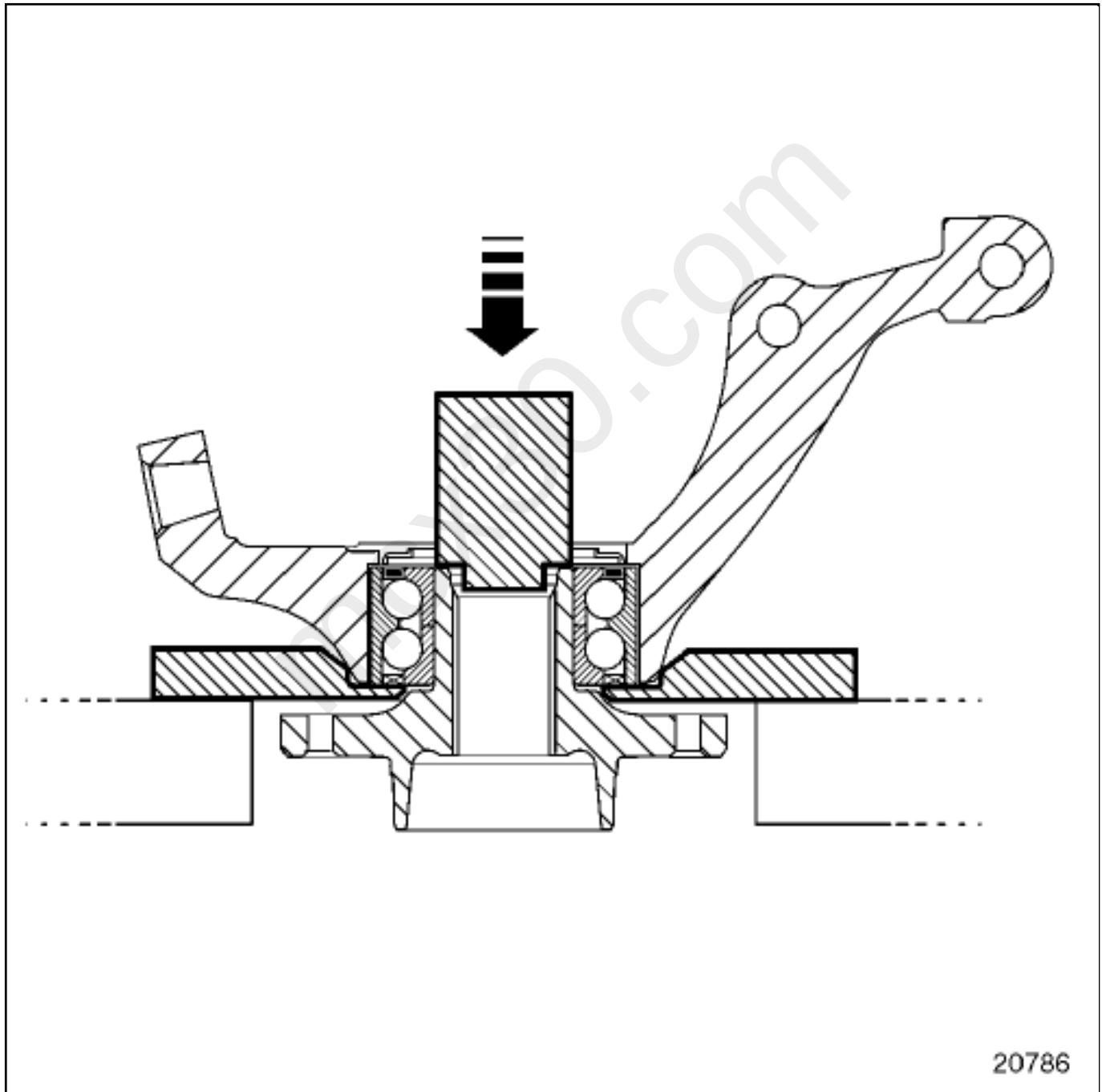
- the front brake calliper mounting.

■ Remove [\(see 31A, Front axle components, Front hub carrier assembly: Exploded view\)](#) :

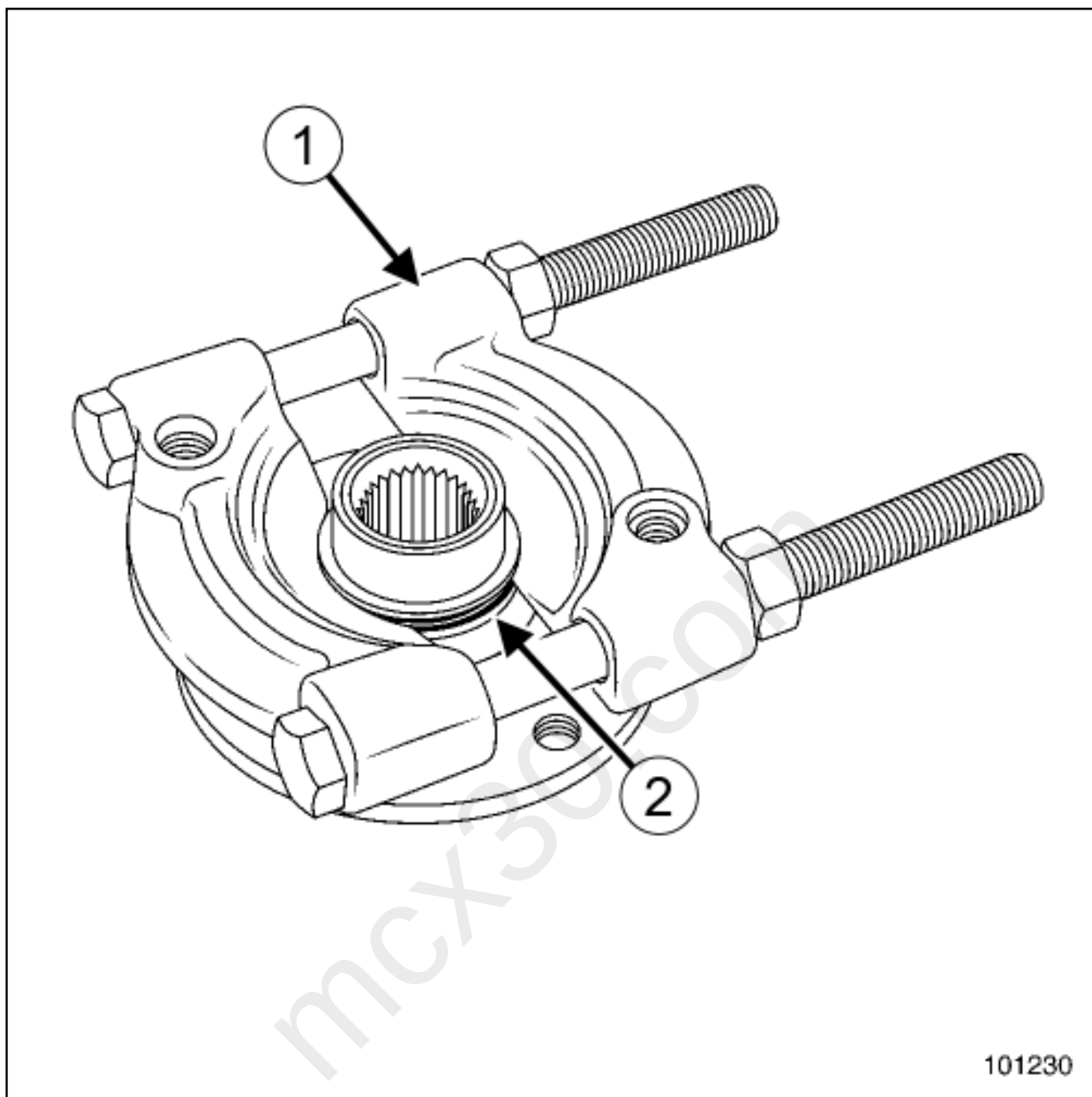
- the front brake disc,
- the front driveshaft hub carrier.

2. REMOVAL OPERATION

■ Remove the elastic ring from the front driveshaft hub carrier [\(see 31A, Front axle components, Front hub carrier assembly: Exploded view\)](#) .

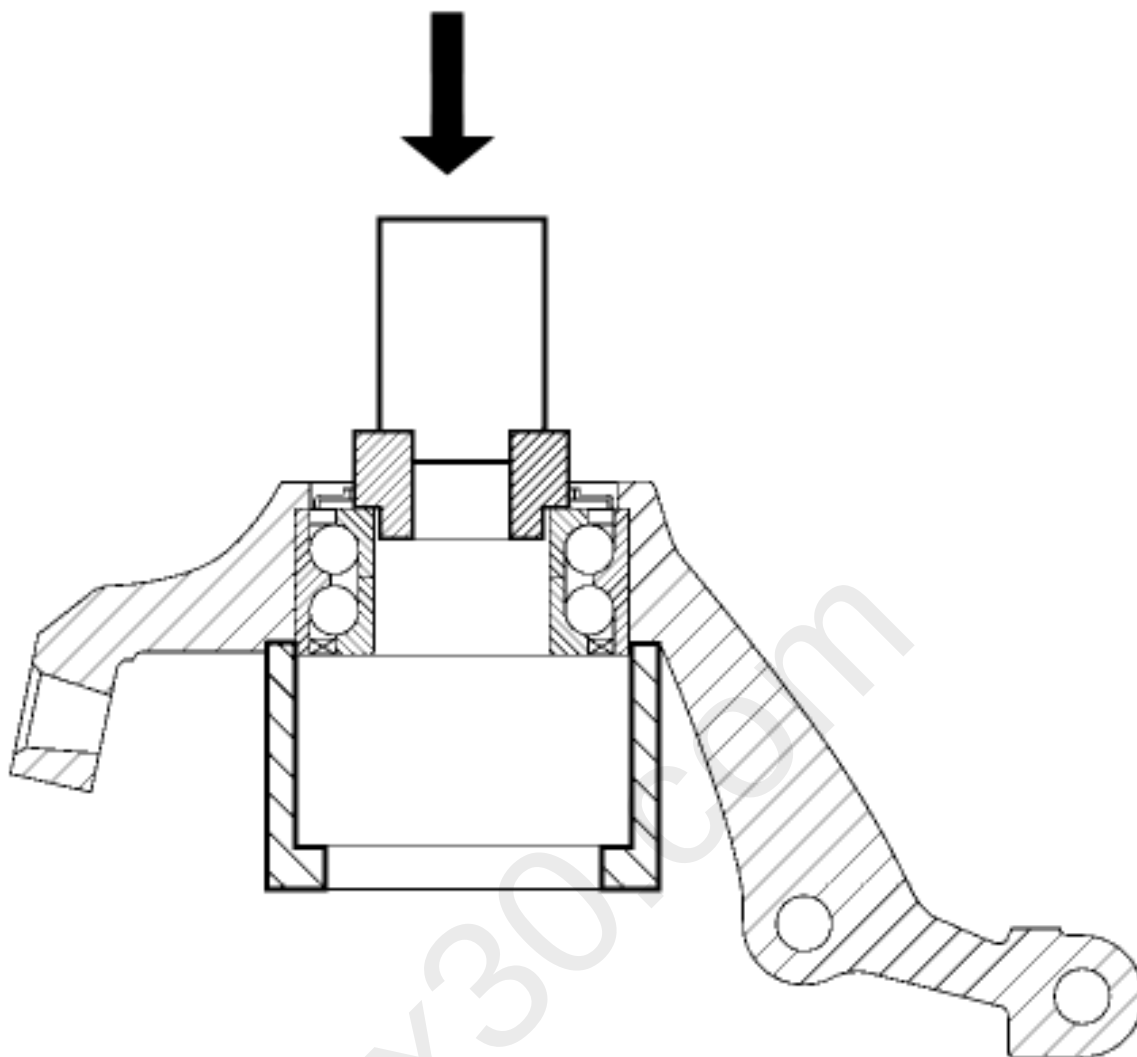


■ Remove the hub with a press, applying pressure with a tube with an external diameter of 54 mm.



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- Place the extractor jaws(1) in the groove of the internal bush(2) .
- Remove the internal bush from the hub, applying pressure to the hub with a tube with an external diameter of 54 mm.



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- Remove the bearing from the front driveshaft hub carrier by applying pressure to the internal bush with a tube with an external diameter of 70 mm.

REFITTING

1. REFITTING PREPARATION OPERATION

- Use surface cleaner(see **Vehicle: Parts and consumables for the repair**) to clean:
 - the internal and external surfaces of the bearing, in contact with the hub carrier and the hub,

- the hub carrier surfaces in contact with the bearing,
- the hub surfaces in contact with the bearing.



CAUTION

To ensure that the wheel speed sensor works properly, do not mark the sensor target on the bearing.

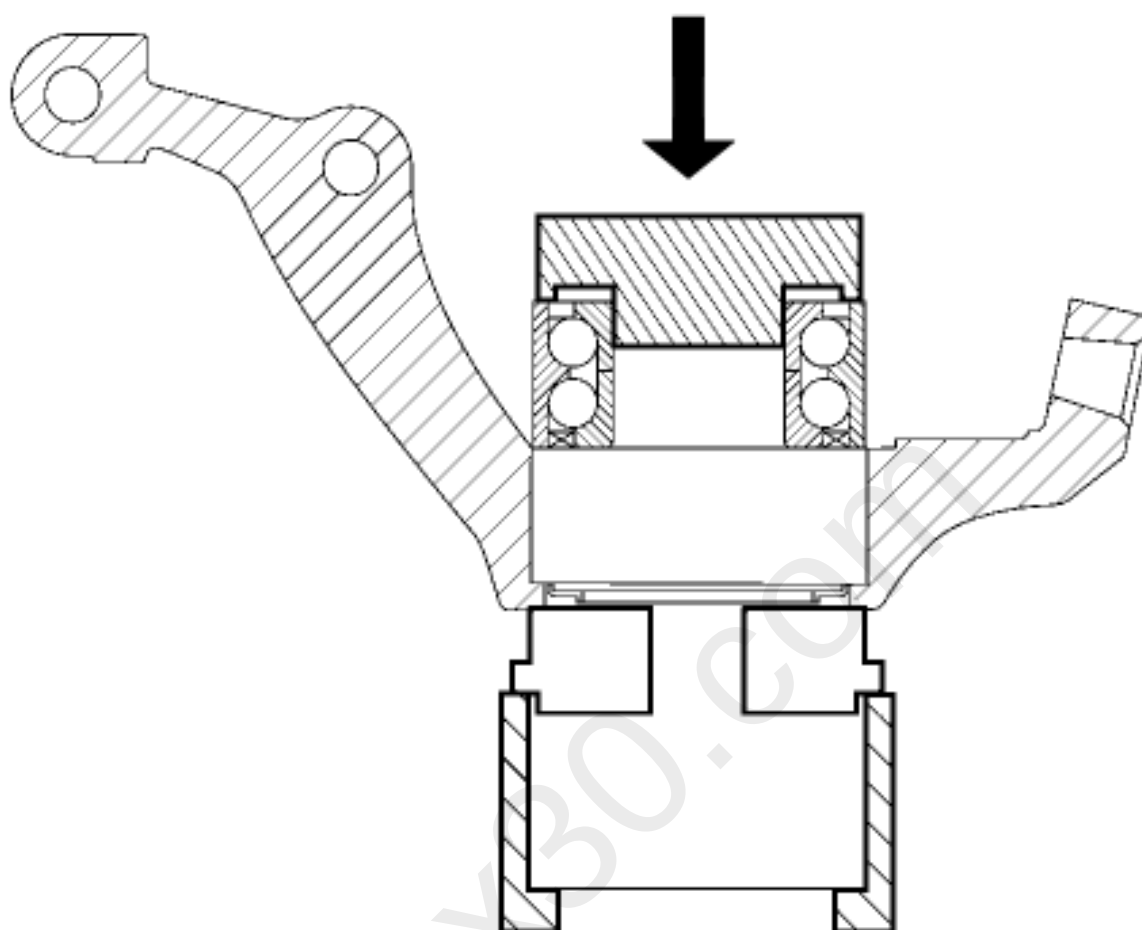


CAUTION

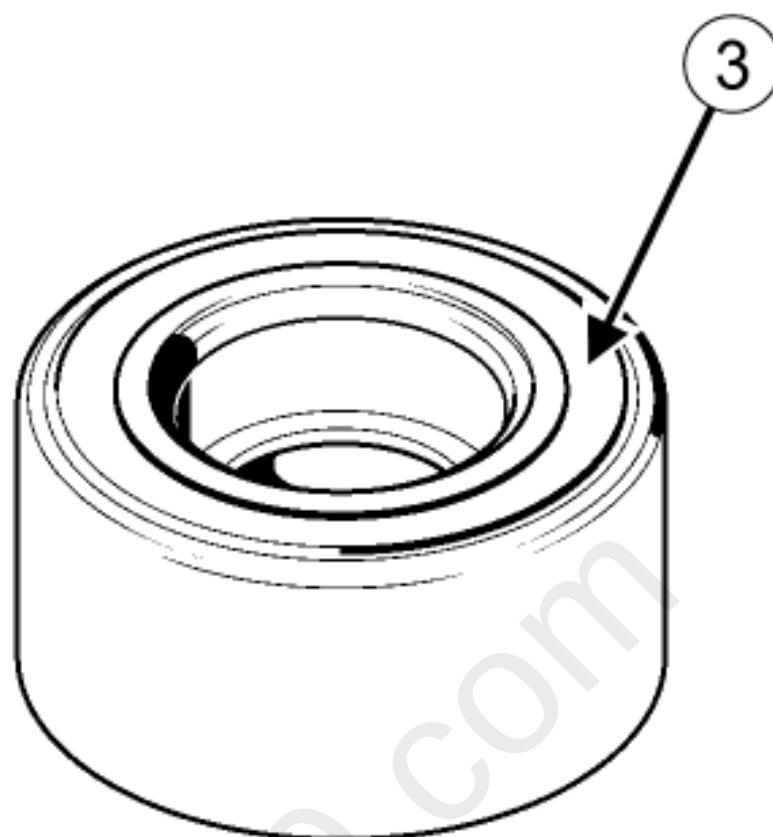
Do not press the bearing's internal bush so as to avoid damaging the bearing (very high shrink-fitting force).

- Check the condition of the hub surface and the bore of the hub carrier in contact with the bearing.
- Replace any component whose contact surfaces have deep scratches or cracks.

2. REFITTING OPERATION



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CAUTION

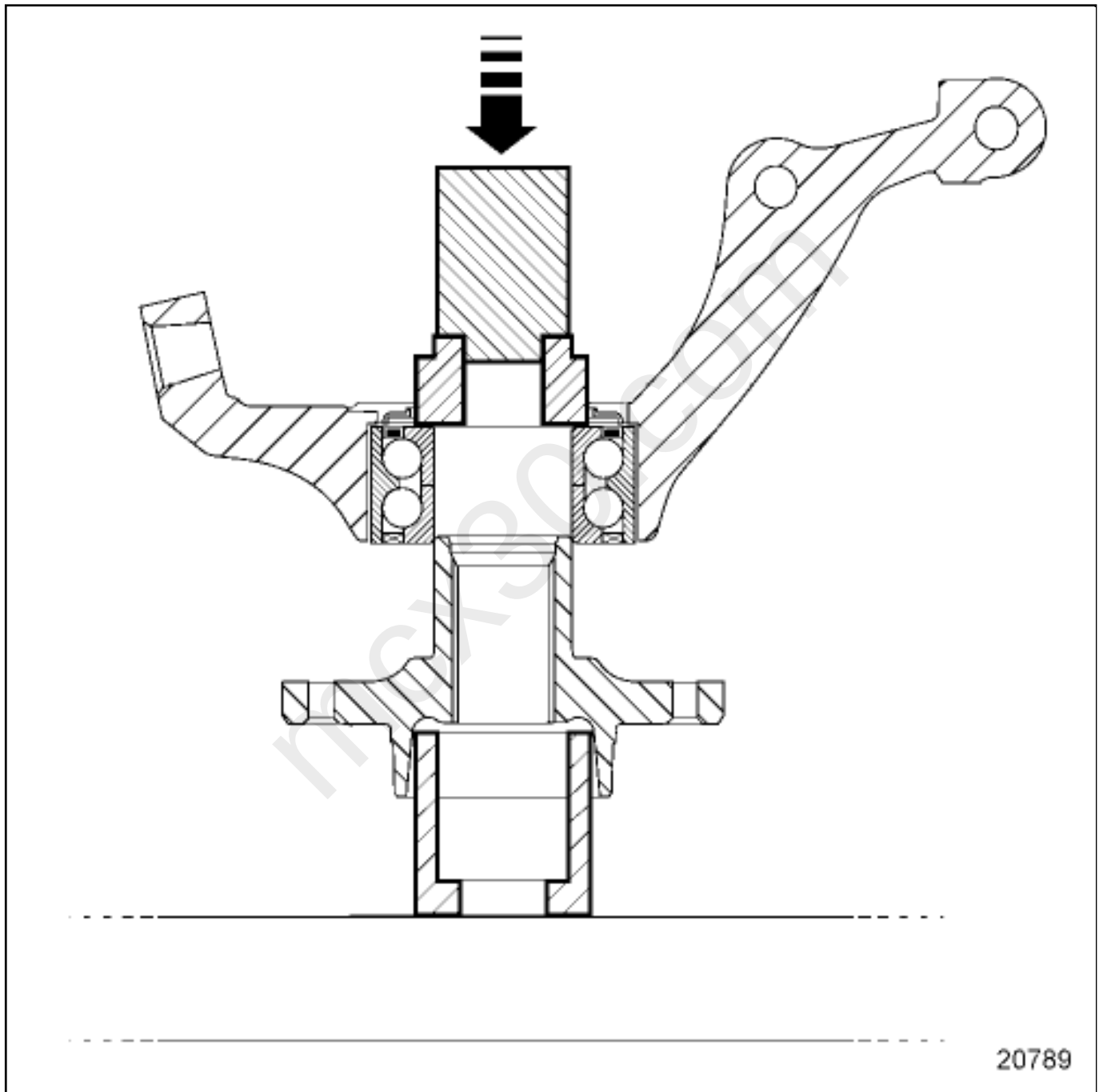
To ensure that the wheel speed sensor works properly, do not mark the sensor target (3) on the bearing.

Position the sensor target on the wheel side of the bearing on the hub carrier.

Apply pressure to the external bush with a tube with an external diameter of 70 mm and an internal diameter of 66 mm (old bearing).



Apply a fitting force of 50,000 N to ensure that the bearing is correctly fitted on the hub carrier shoulder.



Refit:



the hub using a tube with an external diameter of 54 mm,

the elastic ring on the front driveshaft hub carrier.

3. FINAL OPERATION

Proceed in the reverse order to removal.



WARNING

To avoid any accident, bring the pistons, brake pads and brake discs into contact by depressing the brake pad several times.



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