

FRONT BRAKE CALLIPER: REMOVAL - REFITTING



Note, one or more warnings are present in this procedure



Special tooling required

Brake calliper piston return tool.

Fre. 1190-01

Equipment required

pedal press

indelible pencil

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](#) .

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



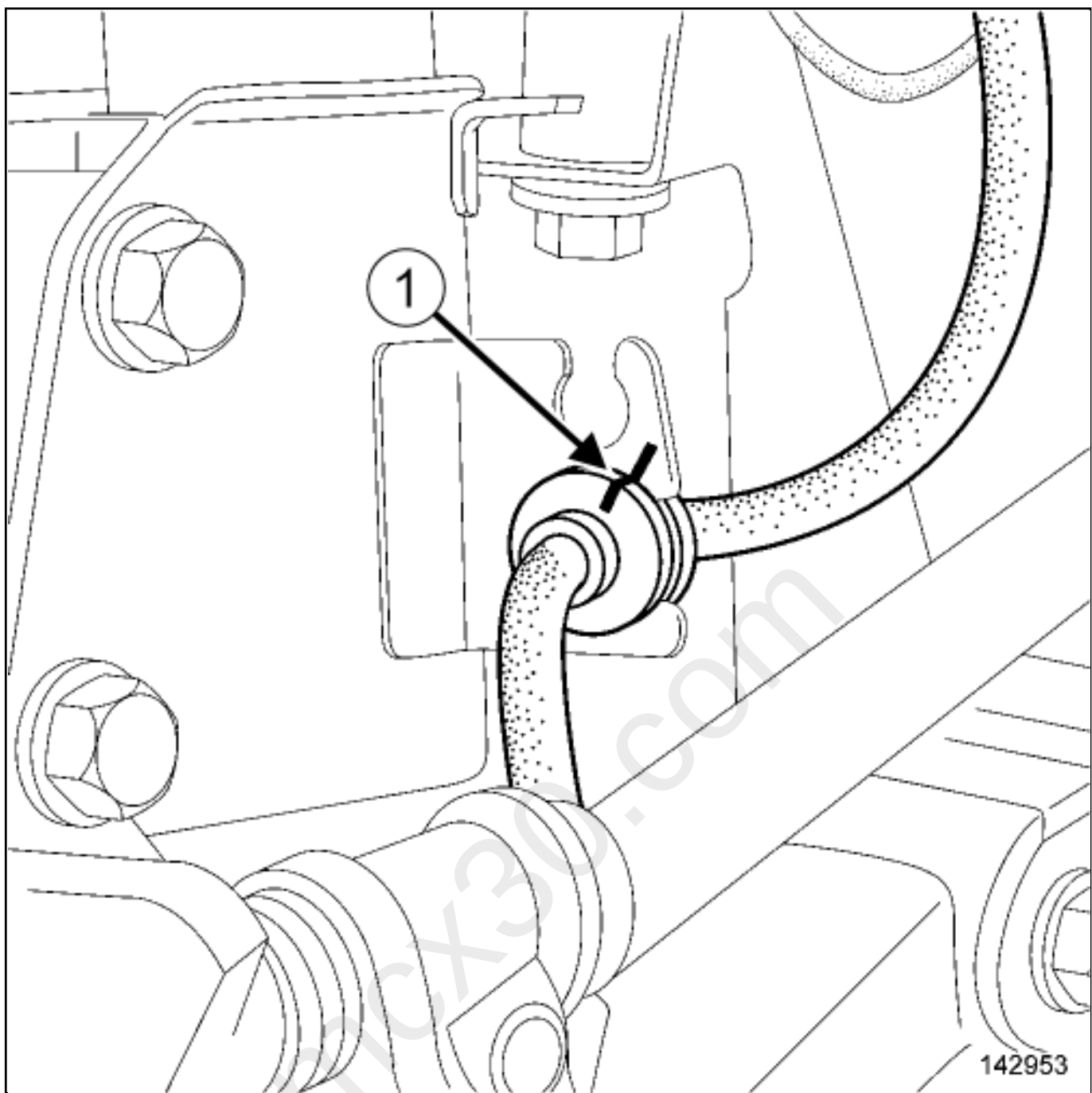
CAUTION

Prepare for the flow of fluid, and protect the surrounding components.

REMOVAL

1. REMOVAL PREPARATION OPERATION

- Position the vehicle on a two-post lift [Vehicle: Towing and lifting](#) .
- Position a pedal press on the brake pedal to limit the outflow of brake fluid.
- Remove the front wheels [\(see 31A, Front axle components, Front hub carrier assembly: Exploded view\)](#) .



- Set the wheels straight ahead.
- Mark the position of the front brake hose cap(1) on the shock absorber base using an indelible pencil.
- Unclip the front brake hose cap(1) from the shock absorber base.

2. REMOVAL OPERATION

- Undo the front brake hose union on the front brake calliper([see 31A, Front axle components, Front brake calliper assembly: Exploded view](#)) .

- Remove [\(see 31A, Front axle components, Front brake calliper assembly: Exploded view\)](#) :
 - the guide pin bolt caps of the front brake calliper,
 - the guide pin bolts of the front brake calliper,
 - the front brake calliper from the front brake calliper mounting,
 - the front brake hose union from the front brake calliper,
 - the front brake calliper.

REFITTING

1. REFITTING PREPARATION OPERATION

- Check:
 - the condition of the calliper gaiter,
 - the condition of the calliper if it has any deep scratches or cracks.
- Replace any faulty parts(see **Front brake calliper: Repair**) .
- Clean using a wire brush and brake cleaner(see **Vehicle: Parts and consumables for the repair**) :
 - the front brake calliper,
 - the front brake calliper mounting.

2. REFITTING OPERATION

- Push back the front brake calliper pistons to the bottom of their housings using the tool Brake calliper piston return tool.([Fre. 1190-01](#)) .
- Proceed in the reverse order to removal.
- Refit the front hose union on the front brake calliper([\(see 31A, Front axle components, Front brake calliper assembly: Exploded view\)](#)) .
- Set the wheels straight ahead.
- Clip the front brake hose cap onto the base of the shock absorber by aligning the marks made at(1) .
- Bleed the braking circuit([Braking circuit: Bleed](#)) .



WARNING

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

Note:



To avoid generating a fault on the brake system with warning light on the dashboard, follow the process below.

- Get into the vehicle.
- Close and lock all doors.
- Switch off the vehicle.

Note:



No electrical consumer should be used.

- Wait 2 minfor the braking computer turns off.
- Depress repeatedly the brake pedal.



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