

## GRAYSTON ENGINEERING LIMITED

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CARSUPPORT

STANDARD

HEAVY DUTY

EXTRA HEAVY DUTY

51A03

51A03H

51A03E\*

\* 51A03E only for cars with a permanent rear axle load of min. 1100kg

MAKE:

TYPE:

YEAR: 2002-

Citroën

Jumper 29, 33, 35

excl. 4x4

Fiat

excl. 4x4

Ducato 11, 15, 18

2002-

Boxer 290, 330, 350 Peugeot

excl. 4x4

2002-

#### PARTS

(1) 2x upper seat

(2) 2x spacer

(3) 2x bolt M10x1.25

(4) 4x auxiliary spring

(5) 8x rubber spring seat

(6) 4x lower seat

(A) original bump stop

#### PARTS ALR-modification (PTO)

(7) 1x brake adjuster plate

(8) 1x washer M8

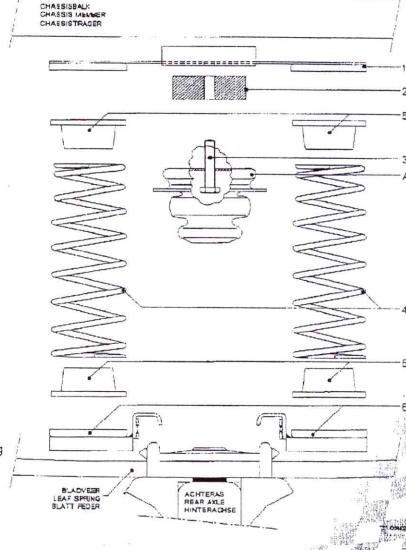
(9) 1x bolt M8

(B) original bolt M8

(C) bolt of ALR-adjuster

#### INSTRUCTIONS

- 1. a. Cars with ABS: go to instruction 2.
  - b. Cars without ABS: the loadsensing brake valve has to be adjusted. Before fitting the kit read point 1 of ALR-instruction R51.005 (PTO).
- 2. Jack up car until rear wheels are off the ground.
- 3. Remove original bump stop(A)
- 4. Pull original bump stop from seat. Remove original bolt from seat by knocking it loose. Please properly support the seat around the bolt head.
- 5. Place spacer(2) over stud bolt(3) and fit original bump stop(A).
- 6. Place lower seats(6) onto the leaf spring, see figure.
- Place rubber spring seats(5) and auxiliary springs(4).
- 8. Lower the car.
- 9. Only cars with loadsensing brake valve (without ABS): After fitting the auxiliary springs adjust the loadsensing brake valve as in ALR-instruction R51.005 (PTO).



# Loadsensing brake valve adjustment:

## ALR-Instruction R51.005

MAKE: YEAR: Citroën Jumper 29, 33, 35

2002-

2002-Ducato 11, 15, 18 2002-Peugeot Boxer 290, 330, 350

Only necessary for cars with loadsensing brake valve (without ABS)

### INSTRUCTIONS

1. Before fitting the kit: Position the car onto a level area and measure the length X of the loadsensing brake valve. Make a note of length X in figure below. (Length X is needed to adjust the brake valve after fitting the kit)

- 2. Now install kit according to fitting instruction F51A03.
- 3. Before adjusting the valve, drive the car approx. 10m so that the suspension can settle down to the new ride height. Position the car onto a level area.
- 4. Disconnect the bracket of the ALR-adjuster from the rear axle.
- 5. Place ALR-adjuster plate(7) between the bracket of the ALR-adjuster and the rear axle, see figure.
- 6. Release bolt(C) and shift until length "X" is again the previous measured length.
- 7. Tighten bolt(C).

If the auxiliary springs are removed, adjust the loadsensing brake valve according to car-manufacturer's manual.

