

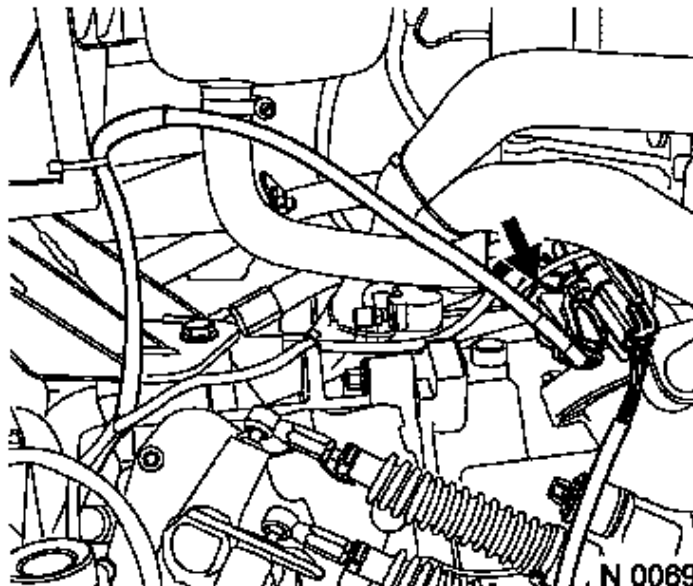
## Rear Subframe, Remove and Install (Z22 SE)



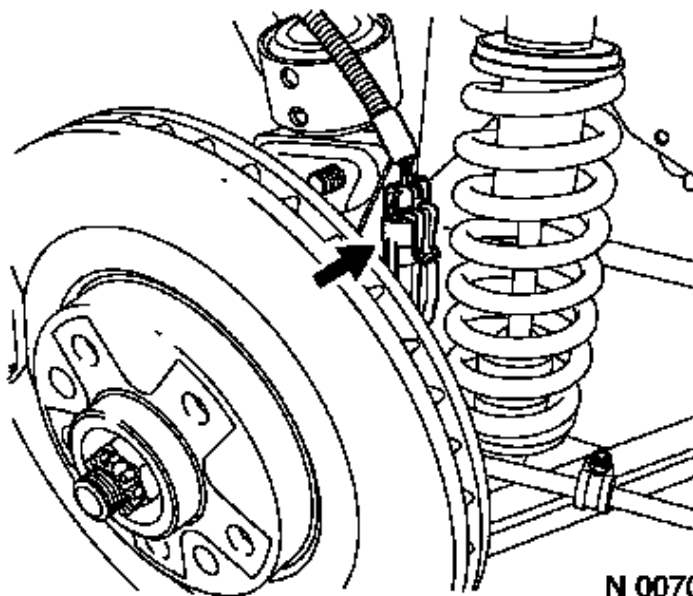
### Remove

Rear clamshell – see operation "Rear Clamshell, Remove and Install".

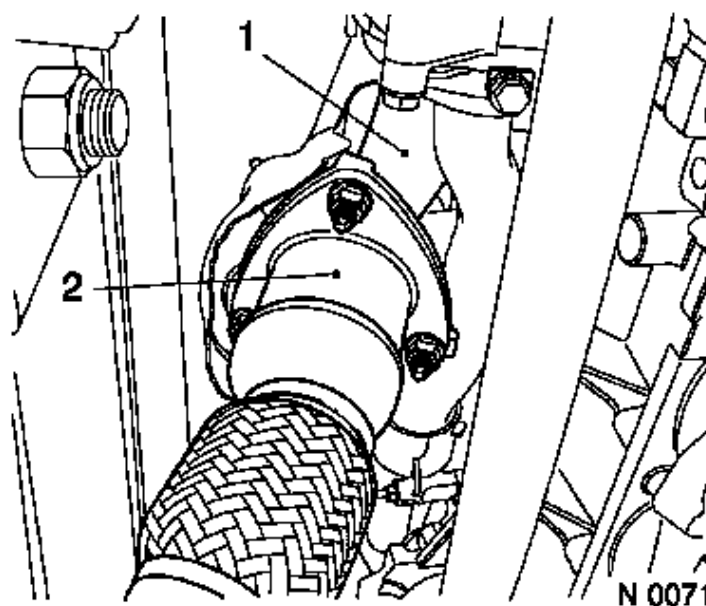
Wiring harnesses of both oxygen sensors – separate into individual cables; 2 wiring harness plugs (arrowed), cable ties.



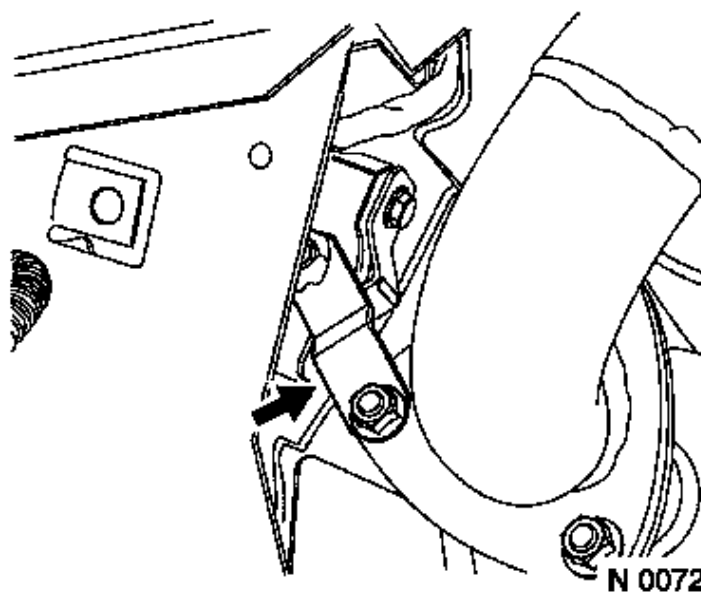
Wiring harnesses of both rear wheel speed sensors – separate into individual cables; 1 wiring harness plug (arrowed), cable ties on each side.



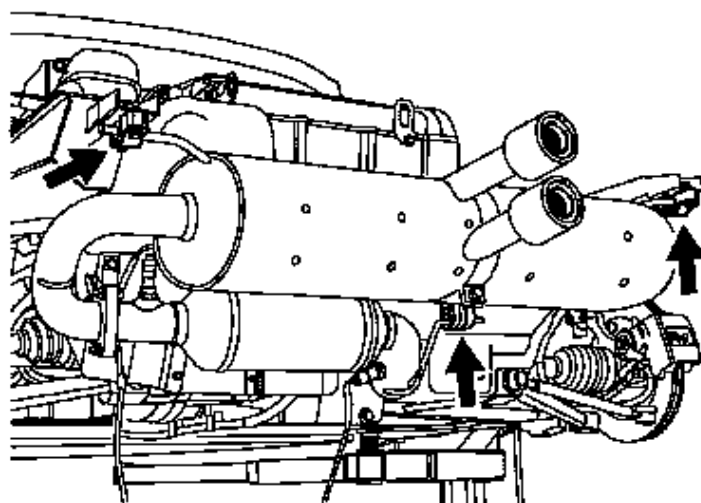
Front exhaust pipe (2) from exhaust manifold (1)  
– 3 nuts



Left exhaust pipe mounting (arrowed) – 1 screw.

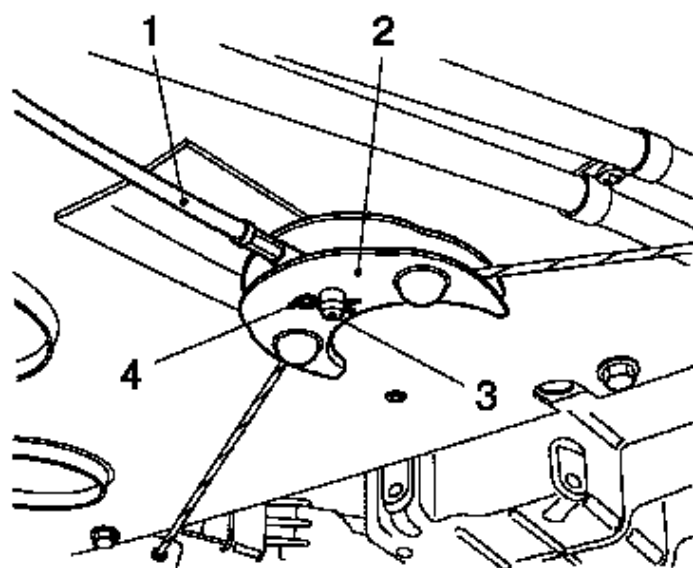


Exhaust system – 3 mountings (arrowed).



N 0073

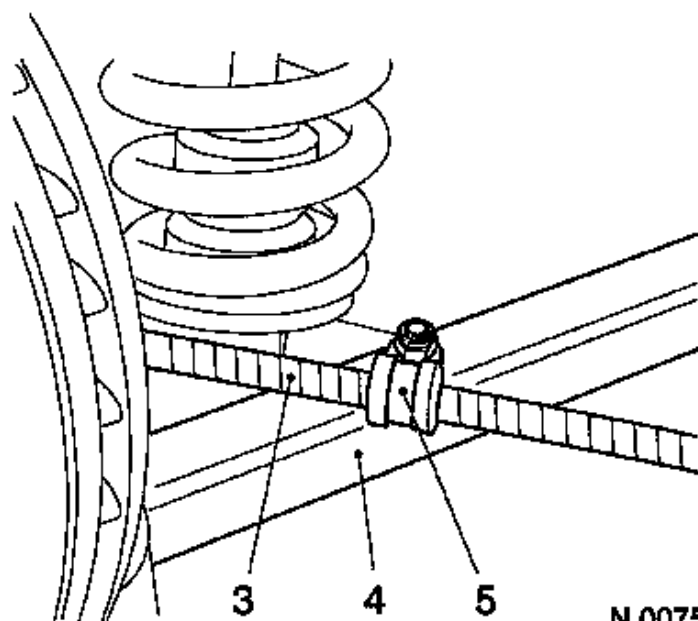
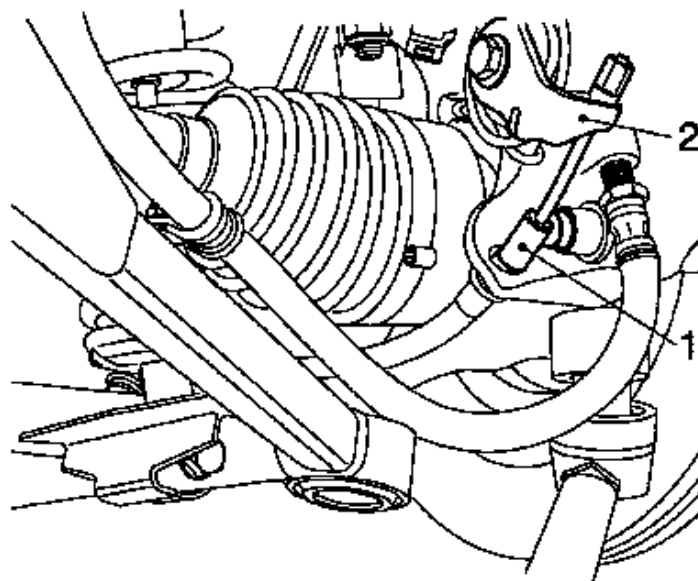
Parking brake cable (1) from compensator (2) –  
1 locking pin (4), 1 pin (3).



N 0074

Parking brake cables (1) from lever (2) – hang  
parking brake cables on left and right sides of  
vehicle.

Parking brake cables (3) from lower wishbone  
(4) – detach one bracket (5) on each side.



N 0075

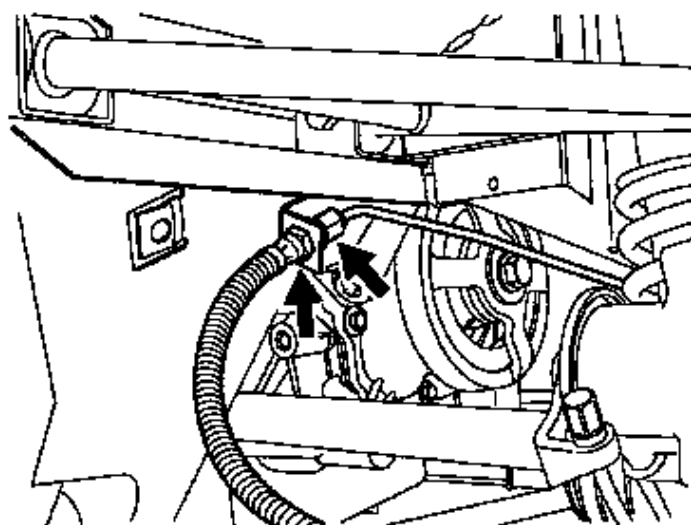
**Remove**

Rear brake hoses and rear brake lines (arrowed) from mountings on left and right.

**Important:**

Collect and dispose of escaping brake fluid.

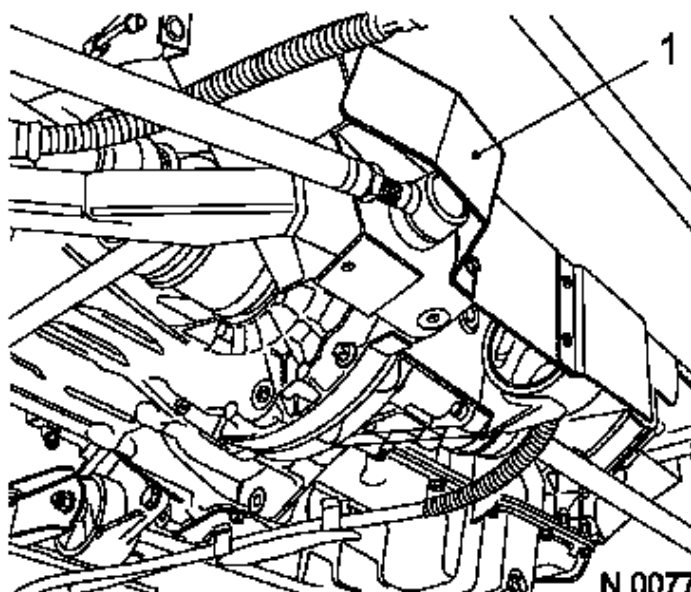
Follow safety regulations.



N 0076

**Remove**

Cover (1) – 1 screw.



N 0077

**Remove**

Left lower wishbone (1) from chassis frame and rear sub-frame – 1 screw, 1 nut (arrowed).

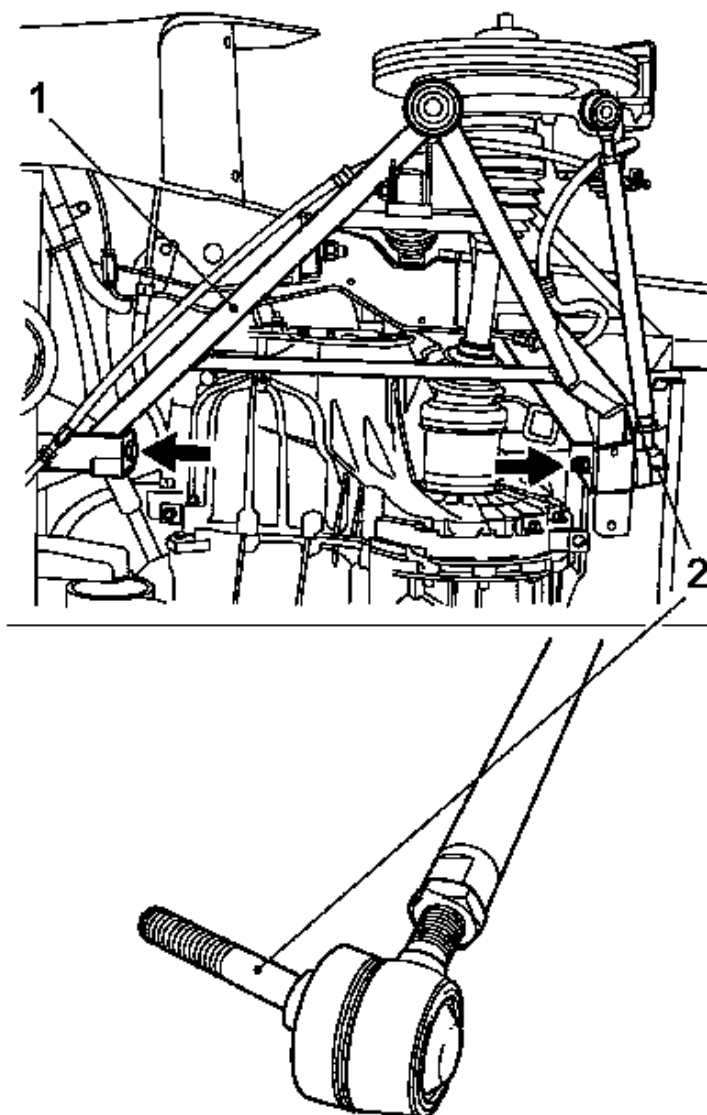
Right lower wishbone (1) from chassis frame and rear sub-frame – 1 screw, 1 nut.

**Important:** Proceed with care so as not to damage thread of track rod end (2).



### Remove

Both drive shafts from transmission – see operation "Drive Shaft, Remove and Install" in group F.



N 0078



### Remove

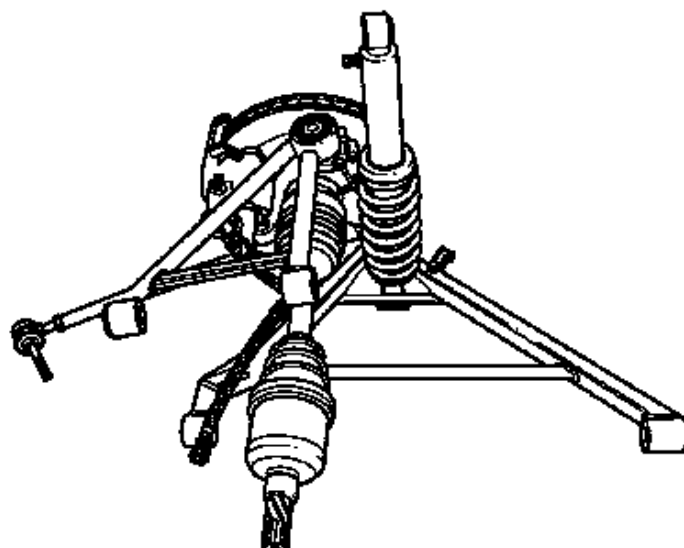
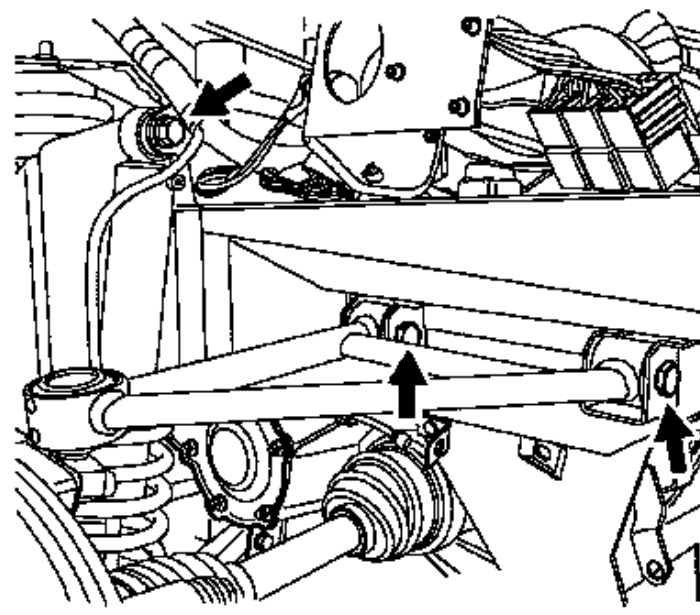
Left suspension assembly – 3 screws (arrowed).

**Important:** Collect and dispose of escaping transmission fluid.



### Install

Blanking plug into left drive shaft aperture.



N 0079

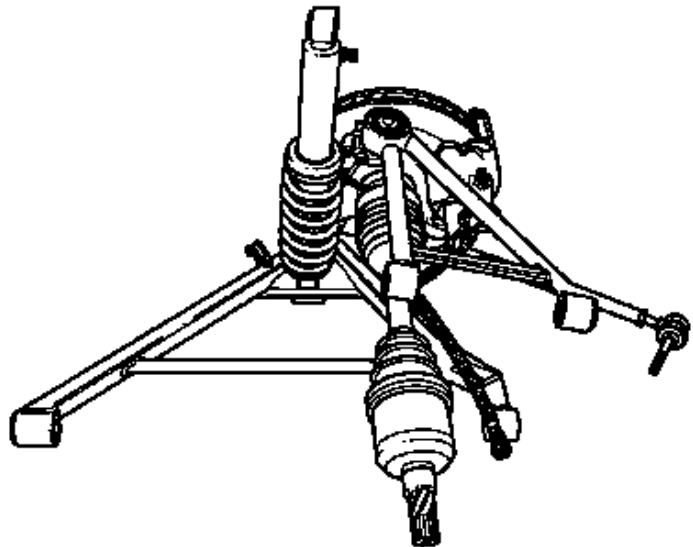
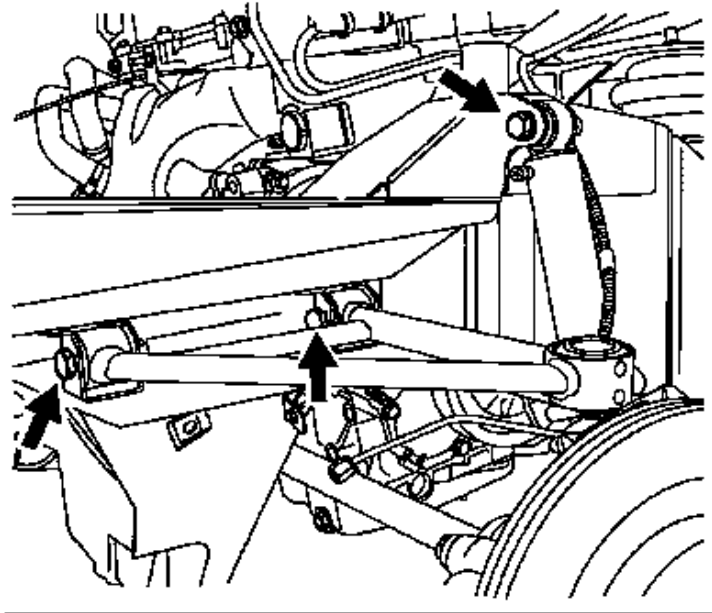
**Remove**

Right suspension assembly – 3 screws (arrowed).

**Important:** Collect and dispose of escaping transmission fluid.

**Install**

Blanking plug into right drive shaft aperture.

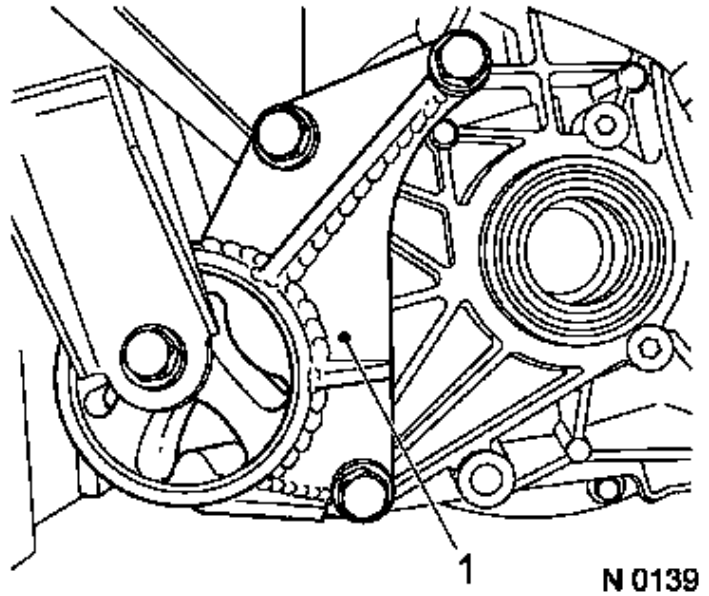


N 0080

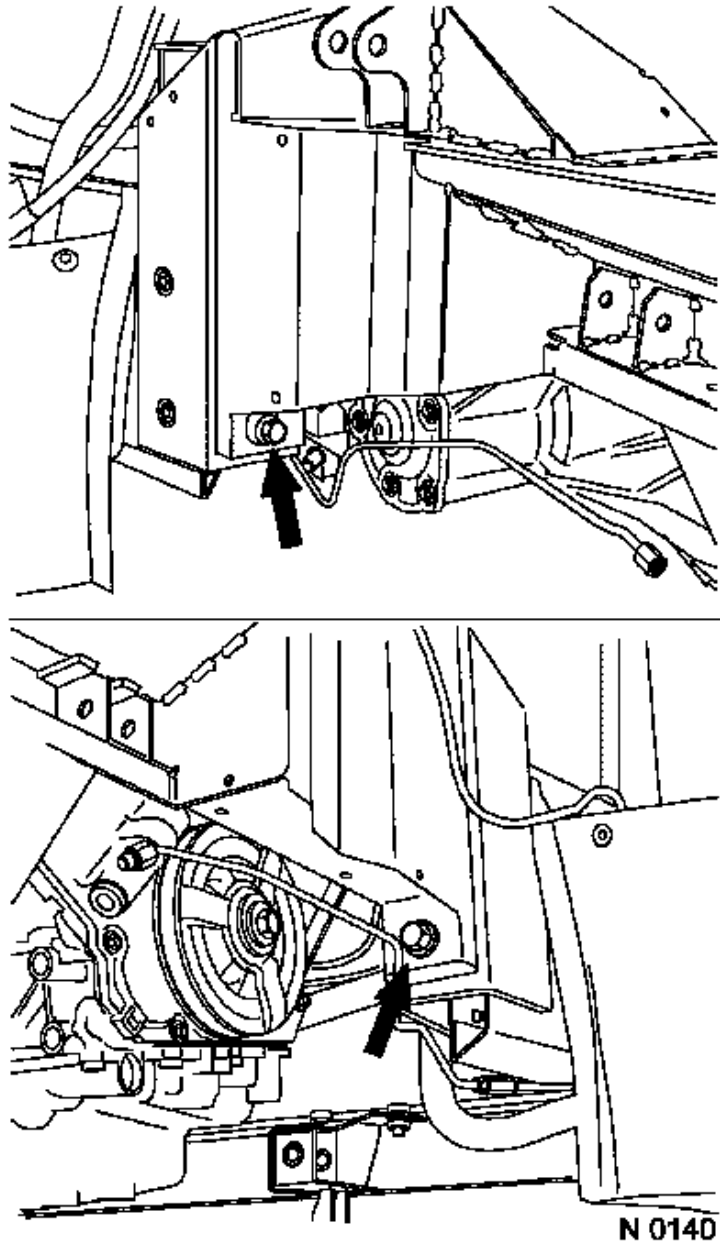
**Remove**

Rear engine damping block (1) – 4 screws.

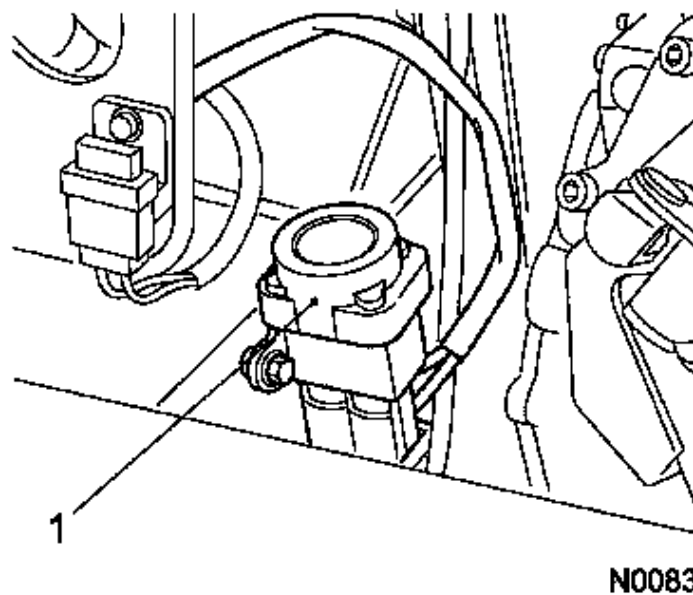




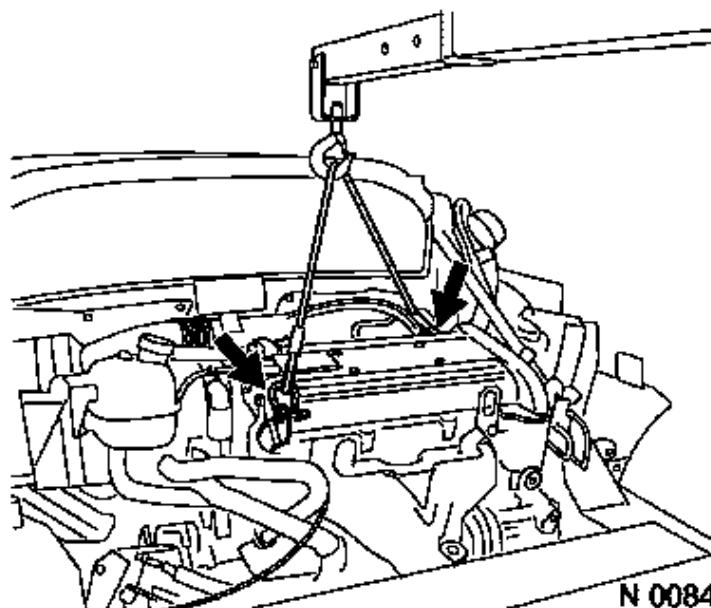
Screws from sub-frame at bottom (arrowed).



Fuel cutoff switch (1) from sub-frame – 2 screws



Attach engine to crane – 2 attachment points (arrowed).



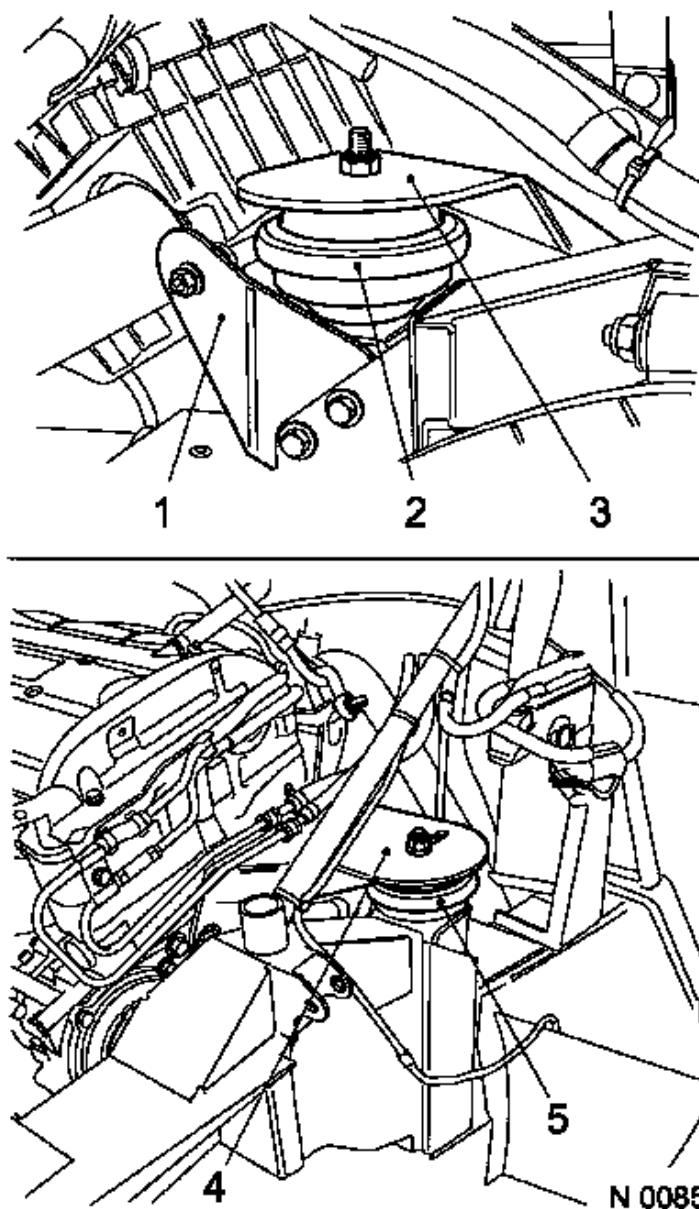
Air filter bracket (1) – 2 screws, 1 nut.

Left bracket (3) – 3 screws, 1 nut.

Left engine damping block (2), 1 nut.

Right bracket (4) – 3 screws, 1 nut, 1 fuel line mounting.

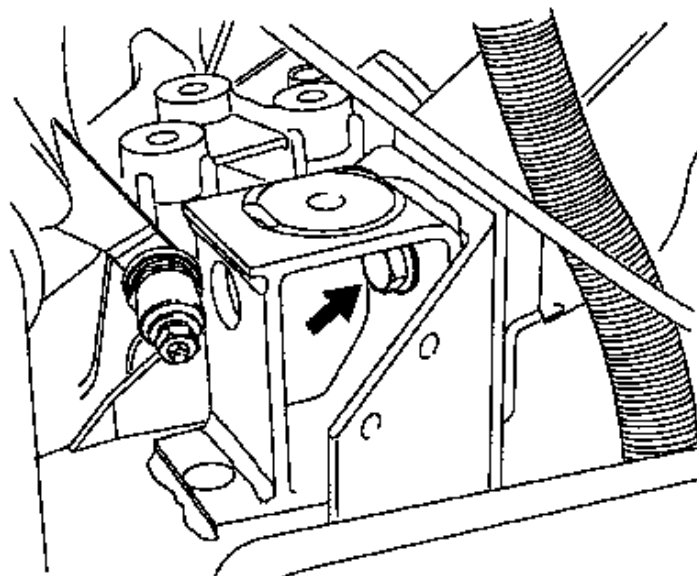
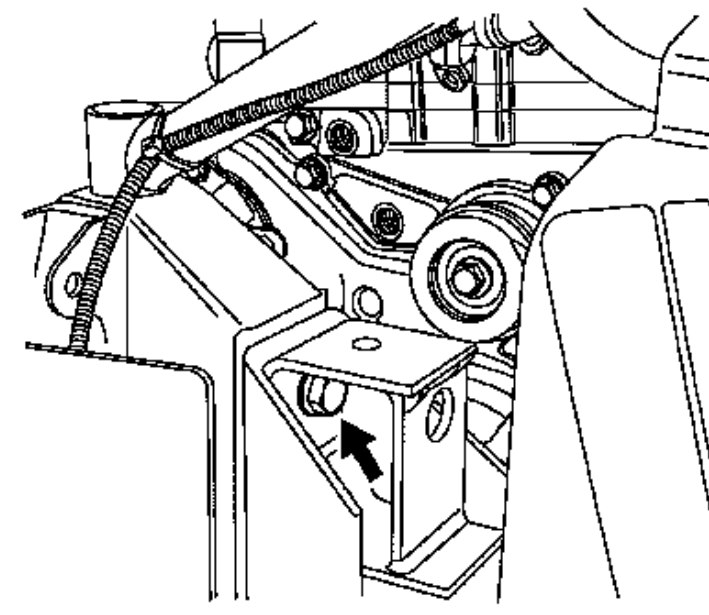
Right engine damping block (5), 1 nut.



**Remove**

Screws from sub-frame at top (arrowed).

**Important:** Do not lean or place any weight on rear sub-frame after removal of rear sub-frame upper screws.

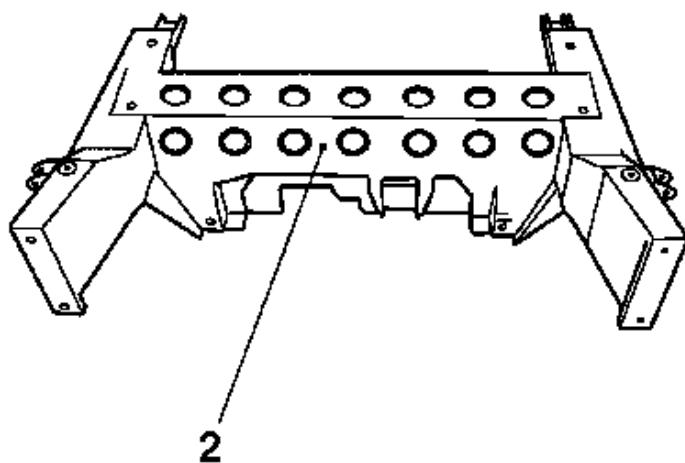
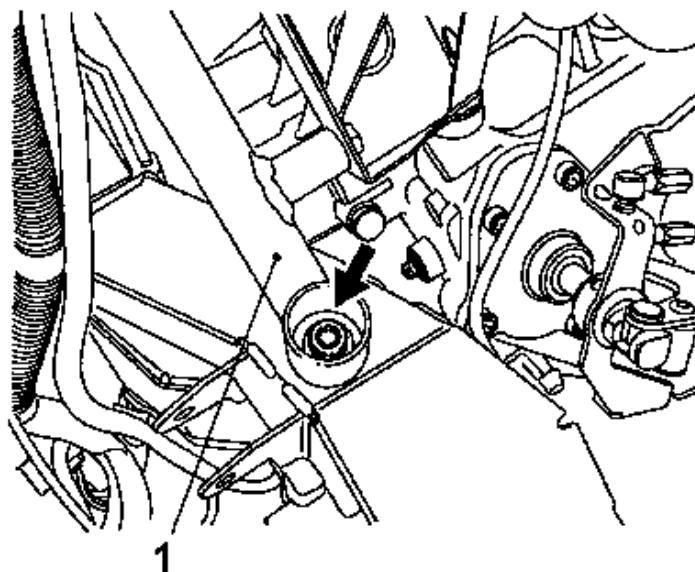


N 0086

**Remove**

Rear sub-frame (2) from support arms (1) – 1 screw (arrowed) on each side.

2 extra technicians required to remove rear sub-frame.

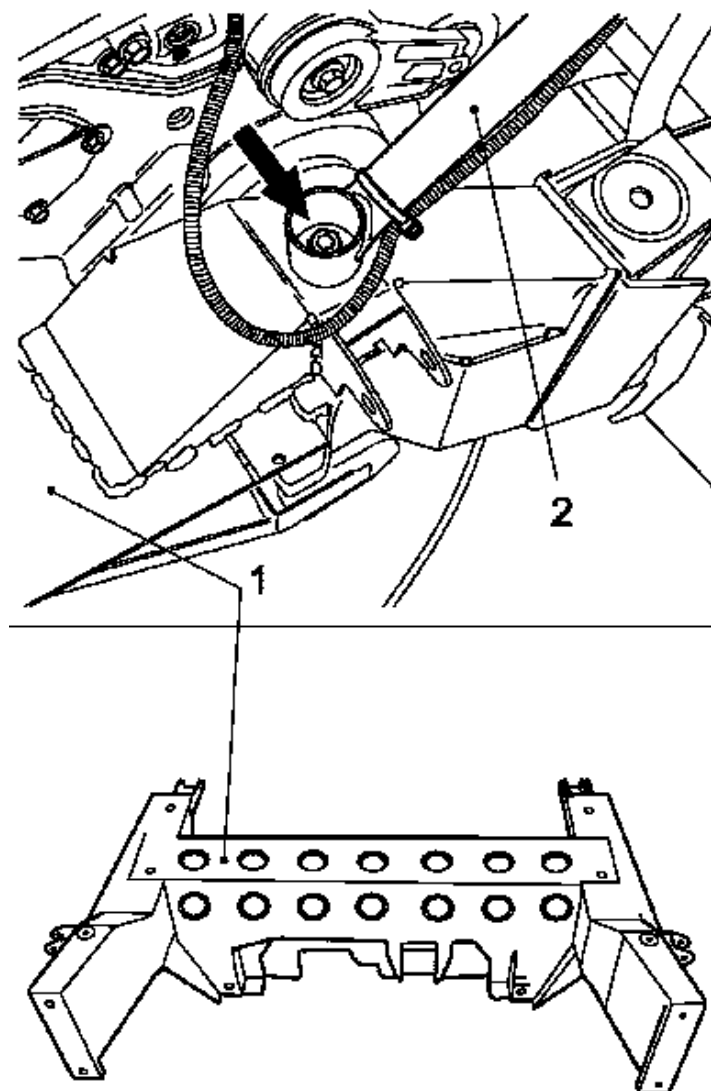


N 0087

**Rear Sub-frame, Install****Install**

Rear sub-frame (1) loosely to support arms (2)  
– 1 screw (arrowed) on each side.

2 extra technicians required to install rear sub-frame.



N 0147

**Install**

Upper screws (1 and 2)  
loosely into rear sub-frame.

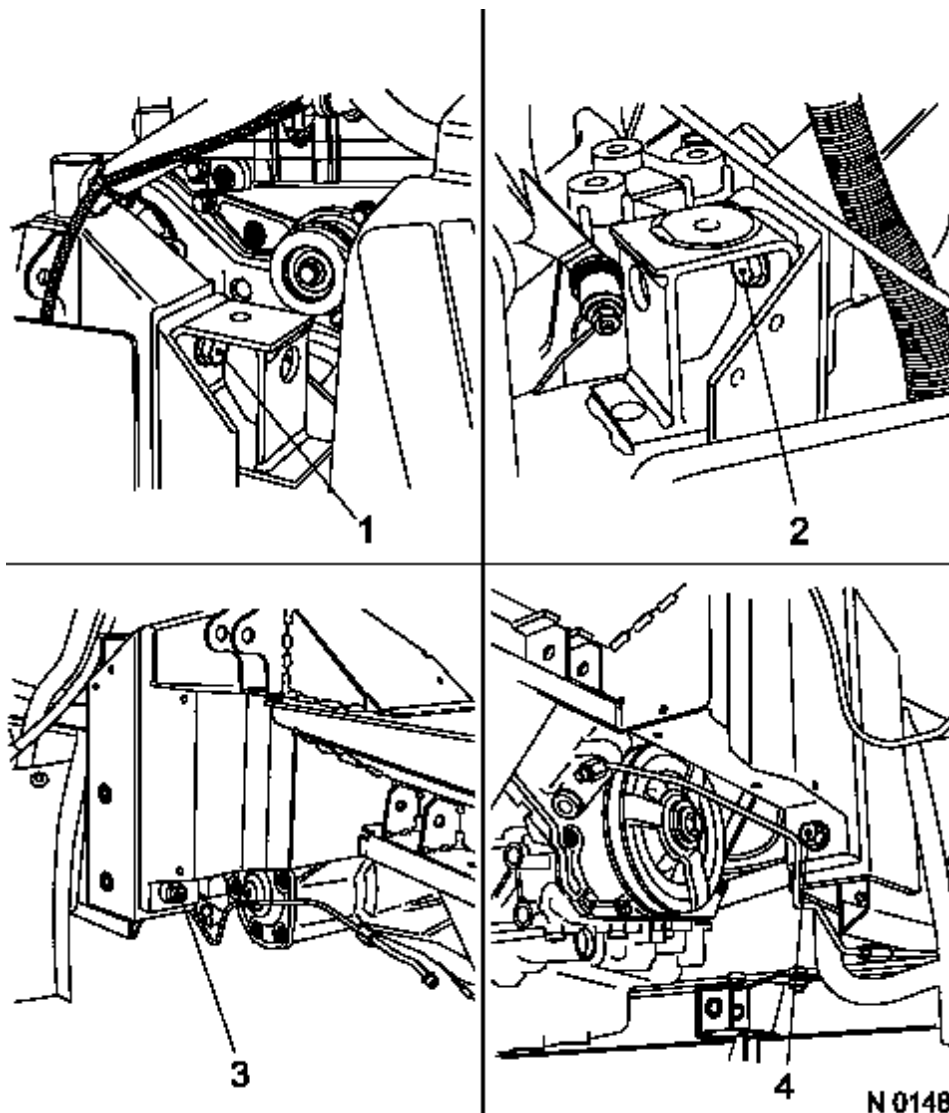
Lower screws (3 and 4)  
loosely into rear sub-frame.

**Important:** Use new self-  
locking nuts.

**Torque**

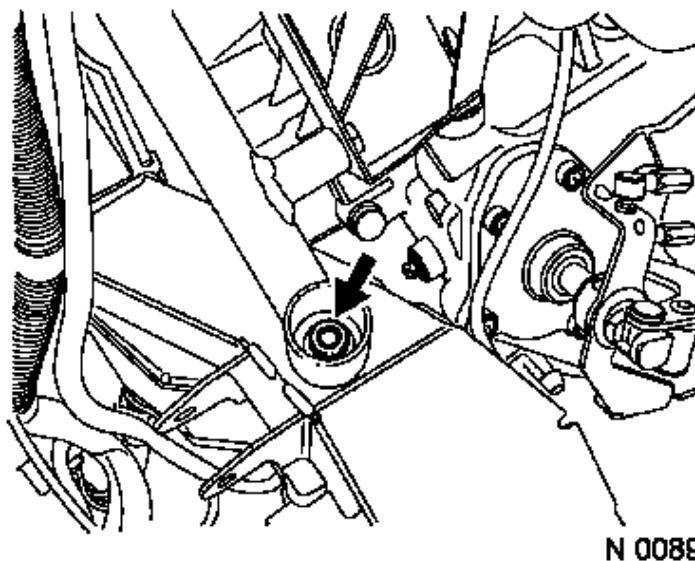
Rear sub-frame upper  
screws (1 and 2)– **45 Nm**.

Rear sub-frame lower  
screws (3 and 4)– **45 Nm**.



Support arms of roll bar to rear sub-frame –  
tighten 1 screw (arrowed) on each side **45 Nm**.



**Install**

Left engine damping block (2), 1 nut **45 Nm**.

Left bracket (3) – 3 screws **45 Nm**, 1 nut.

Right engine damping block (5), – 1 nut **45 Nm**.

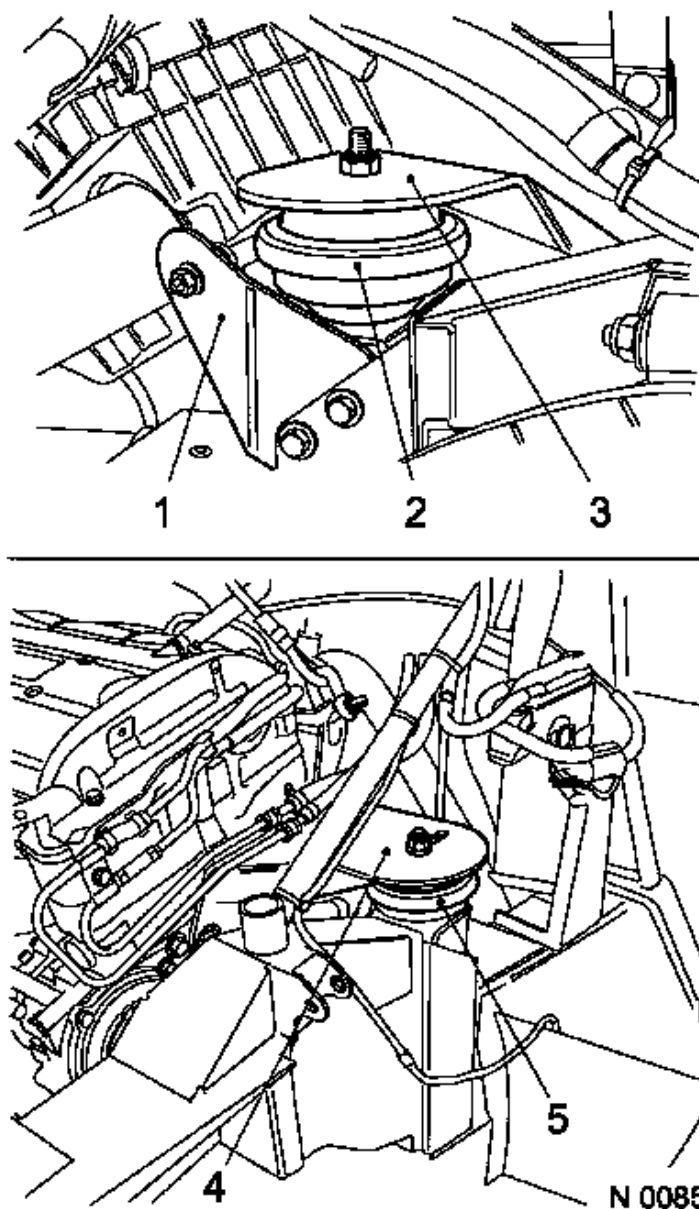
Right bracket (4) – 3 screws **85 Nm**, 1 nut.

Air filter bracket (1) – 2 screws, 1 nut.

**Important:**

Use new self-locking nuts.

Carefully check installation position of engine damping blocks.

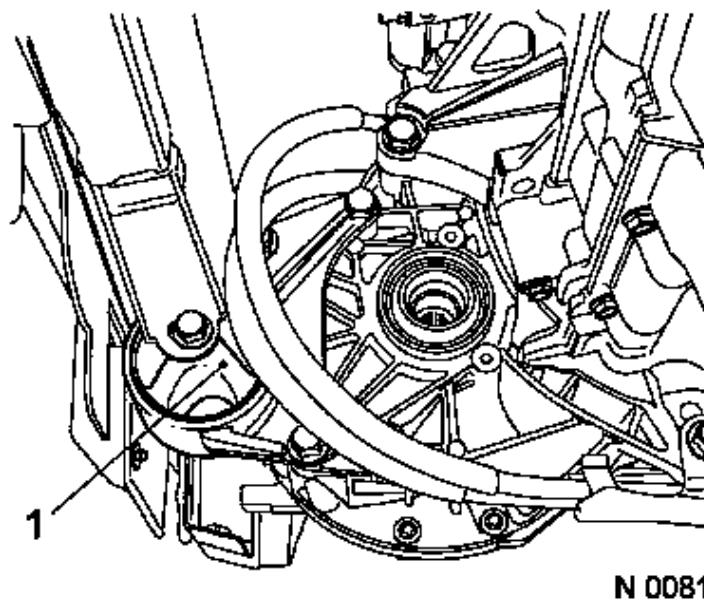
**Install**

Rear engine damping block (1) – 4 screws.

**Torque**

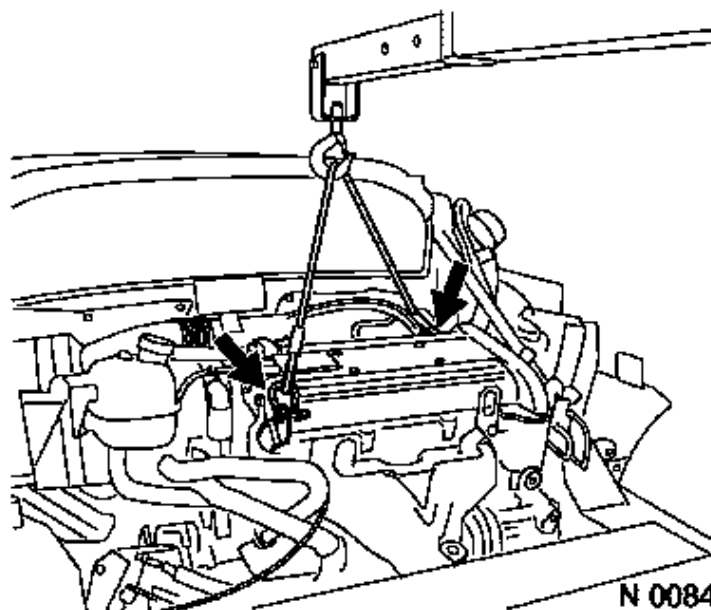
Screw, rear engine damping block to transmission – **86 Nm**.

Screw, rear engine damping block to rear subframe – **49 Nm**.

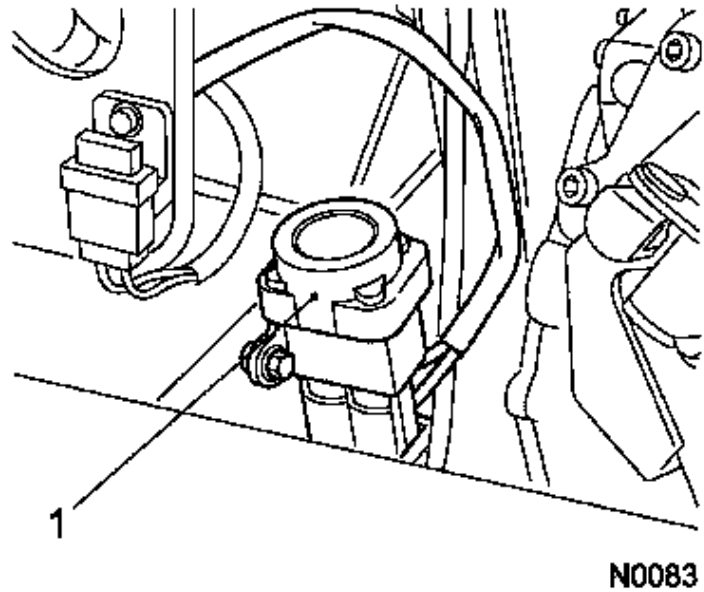


**Remove**

Crane from engine (arrowed).



Fuel cutoff switch (1) to rear sub-frame – 2 screws



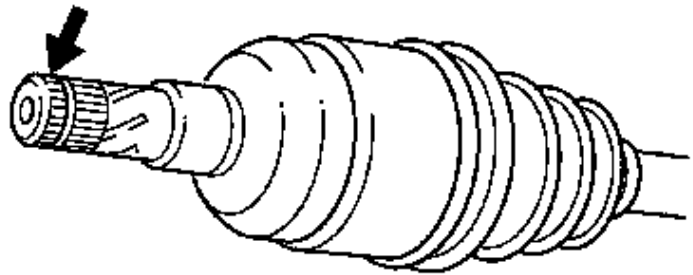
**Install**

Retaining ring (arrowed) to both drive shafts.



**Remove**

Blanking plugs from drive shaft apertures.



**Install**

Right drive shaft into transmission.

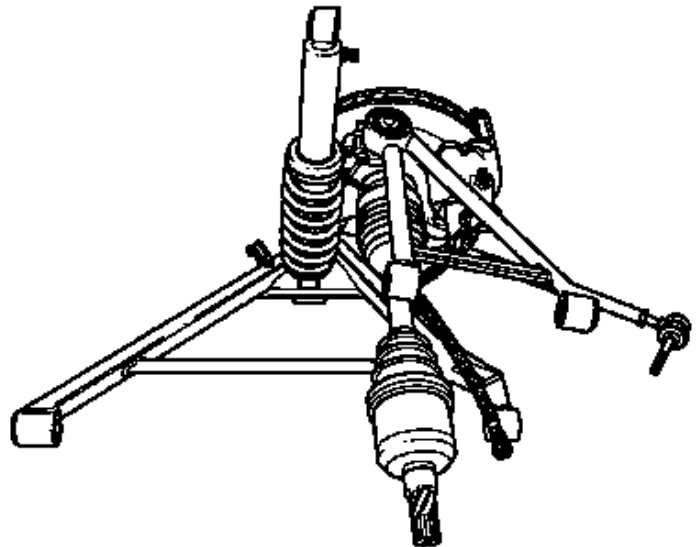
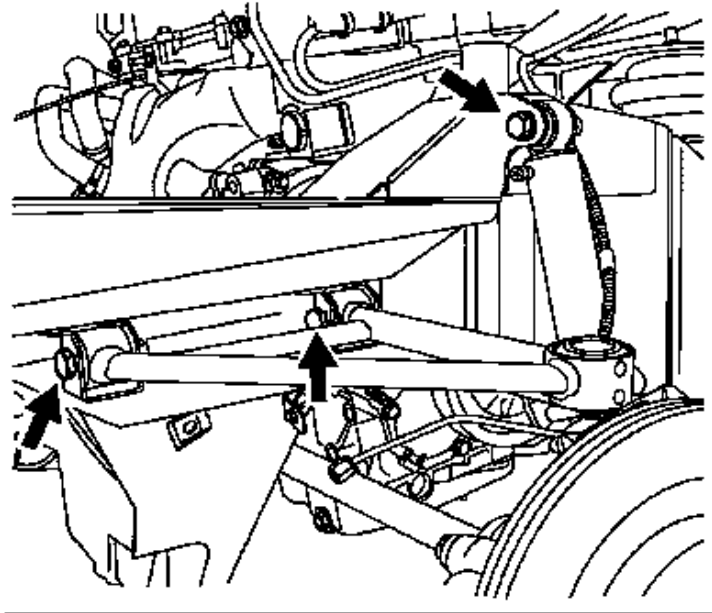
Right upper wishbone and shock absorber – 3 screws (arrowed); ensure screw of correct length **55 mm** (measured from screw base to screw head) is installed in upper wishbone.

**Important:** Use new self-locking nuts.

### Torque

Screw, shock absorber to rear sub-frame – 45 Nm.

Screw, upper wishbone to rear sub-frame – 45 Nm.



N 0080



**Install**

Left drive shaft into transmission.

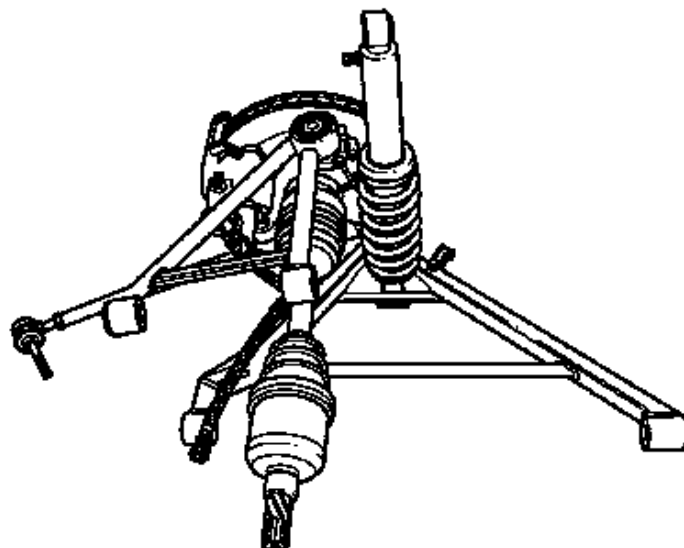
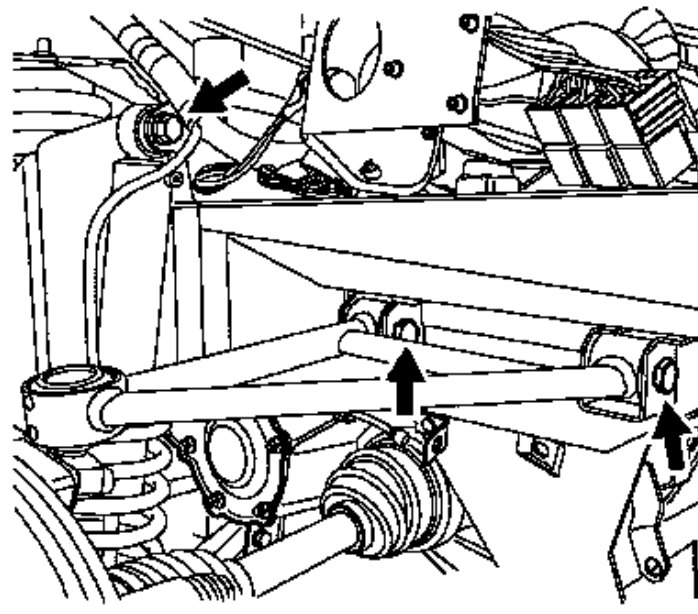
Left upper wishbone and shock absorber – 3 screws (arrowed); ensure screw of correct length **55 mm** (measured from screw base to screw head) is installed in upper wishbone.

**Important:** Use new self-locking nuts.

### Torque

Screw, shock absorber to rear sub-frame – **45 Nm.**

Screw, upper wishbone to rear sub-frame – **45 Nm.**

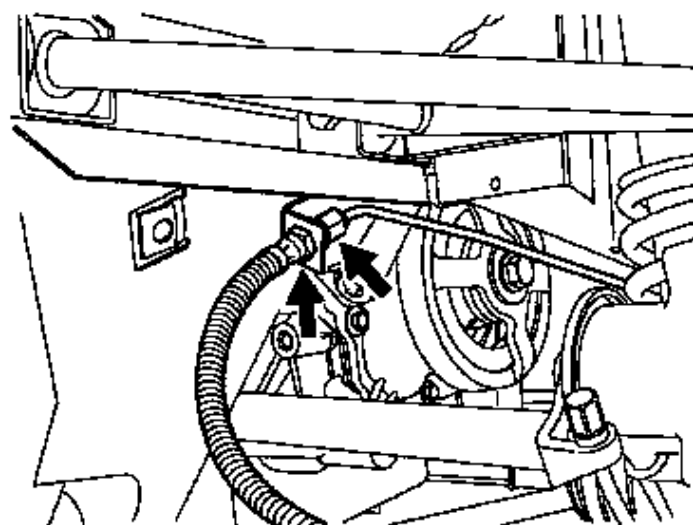


N 0079

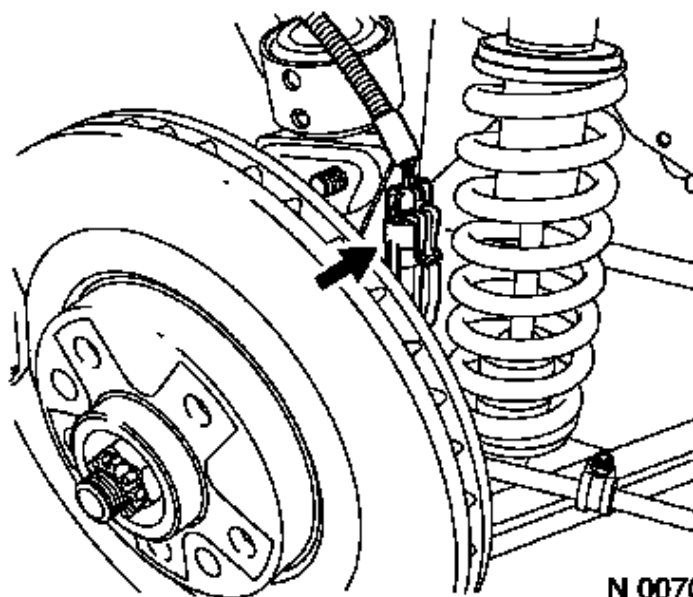


**Install**

Brake hoses and lines (arrowed) to mounting on each side.

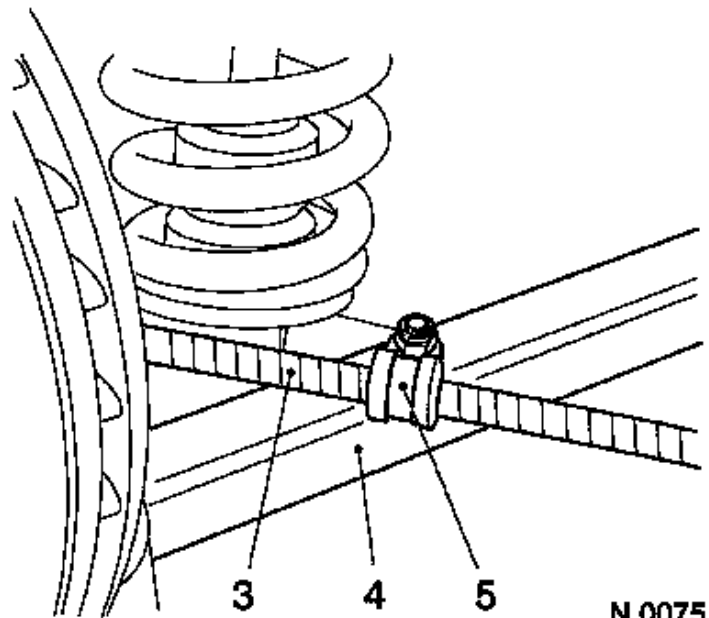
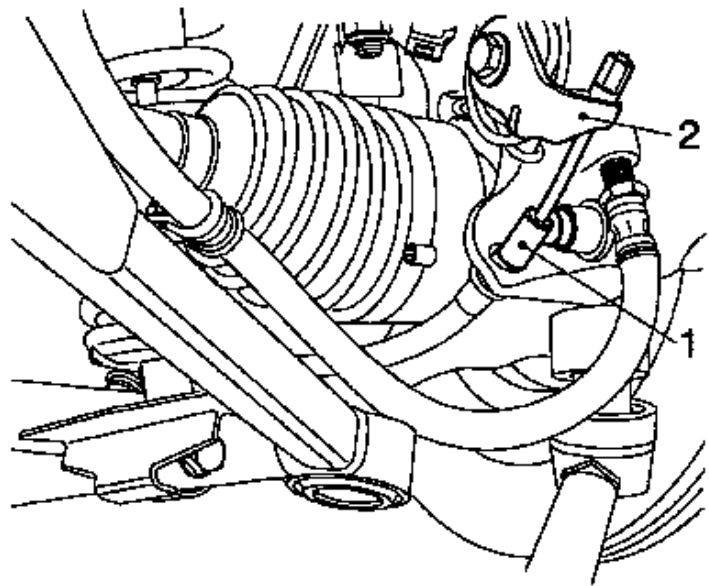
**N 0076**

Wiring harnesses of both rear wheel speed sensors – 1 wiring harness plug (arrowed) and 2 cable ties on each side.

**N 0070**

Parking brake cable (1) to lever (2) – attach to both sides.

Parking brake cables (3) to lower wishbone (4) – one bracket (5) on each side.



N 0075

**Install**

**Important:** End of track control arm locates into chassis. Ensure correct type of locking nut is used. Early type have coarse thread, later type have fine thread.

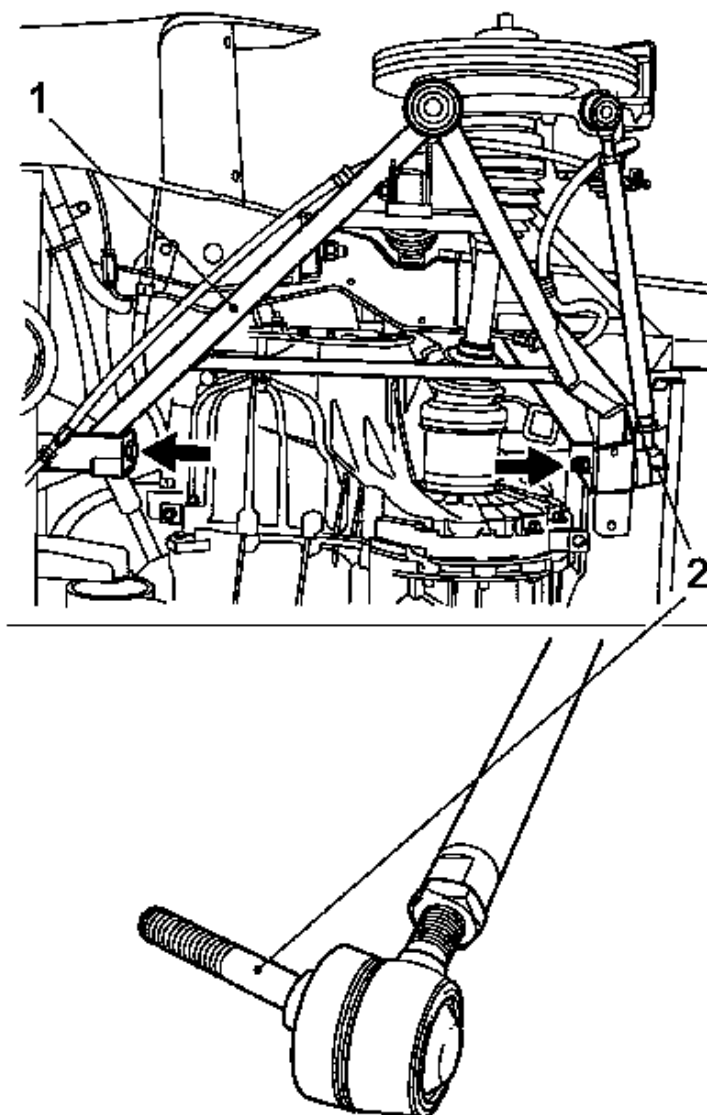
Left lower wishbone (1) – 1 screw **45 Nm** and 1 nut (arrow) **49 Nm**; ensure screw of correct length, **65 mm** (measured from screw base to screw head) is installed.

Right lower wishbone (1) – 1 screw **45 Nm** and 1 nut (arrow) **49 Nm**; ensure screw of correct



length, **65 mm** (measured from screw base to screw head) is installed.

**Important:** Use new self-locking nuts.

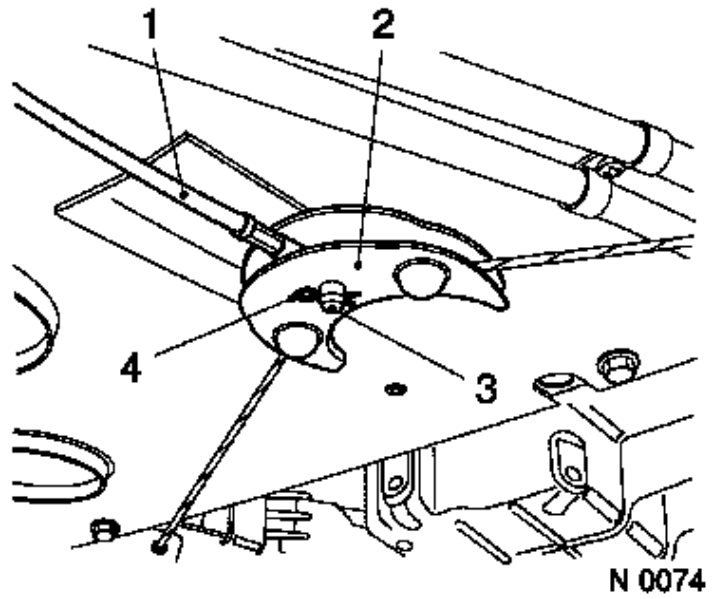


**N 0078**

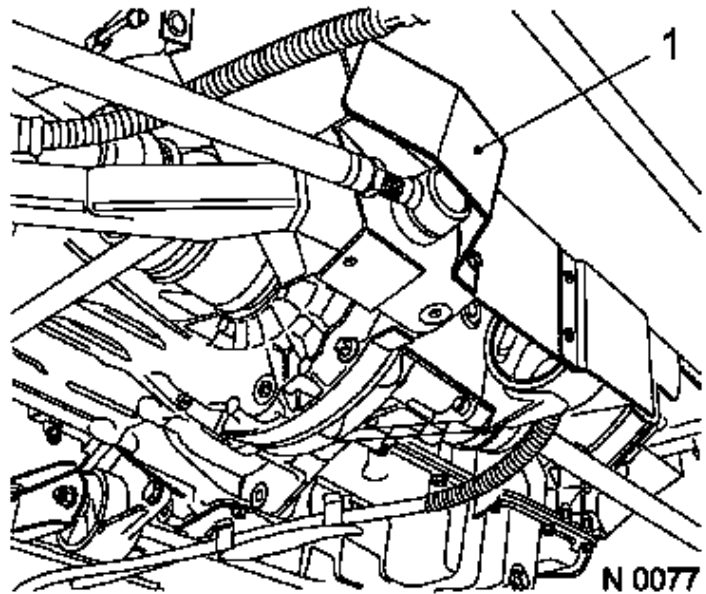


**Install**

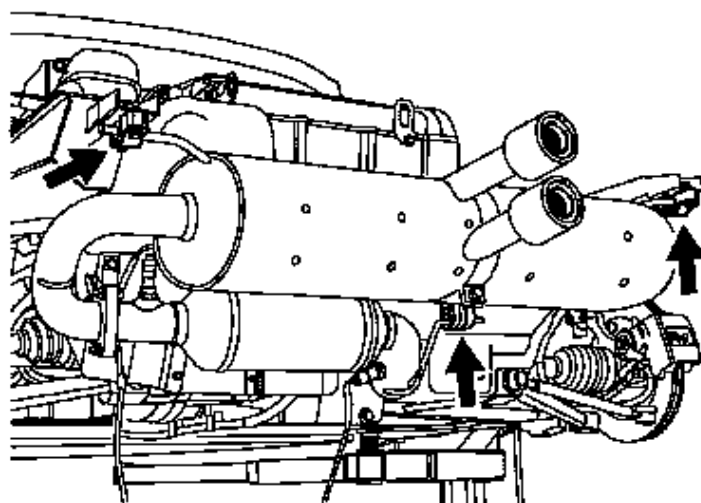
Parking brake cable (1) to compensator (2) – 1 pin (3), 1 locking pin (4) – to mount parking brake cable on compensator a second technician must first tighten levers of both rear brake calipers.



Cover (1) – 1 screw.



Exhaust system – 3 mountings (arrowed).

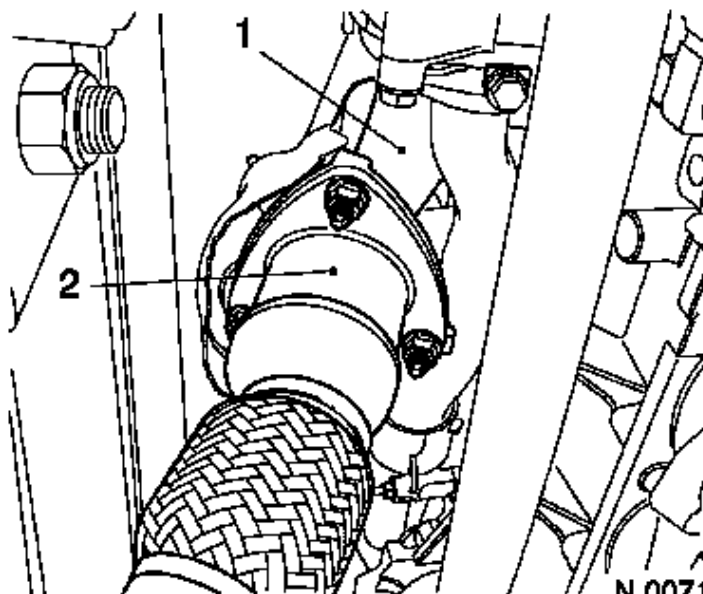


N 0073

**Install**

Front exhaust pipe (2) to exhaust manifold (1) – 3 nuts.

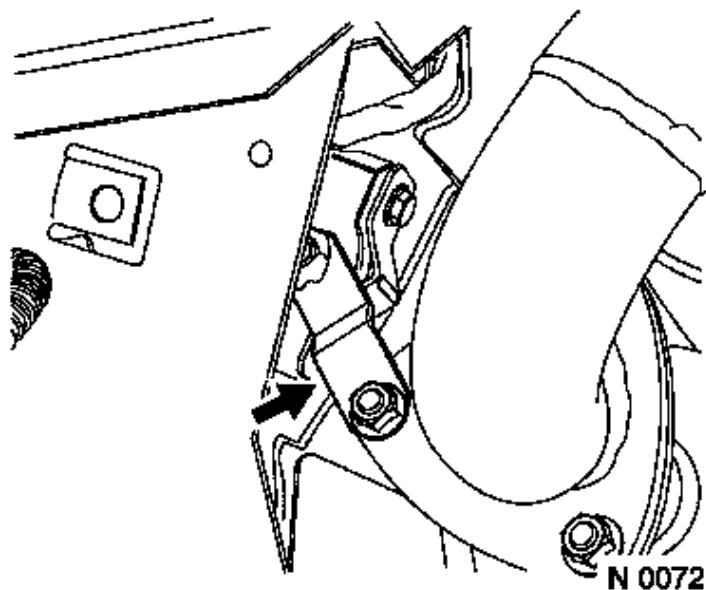
**Important:** Use new nuts.



N 0071

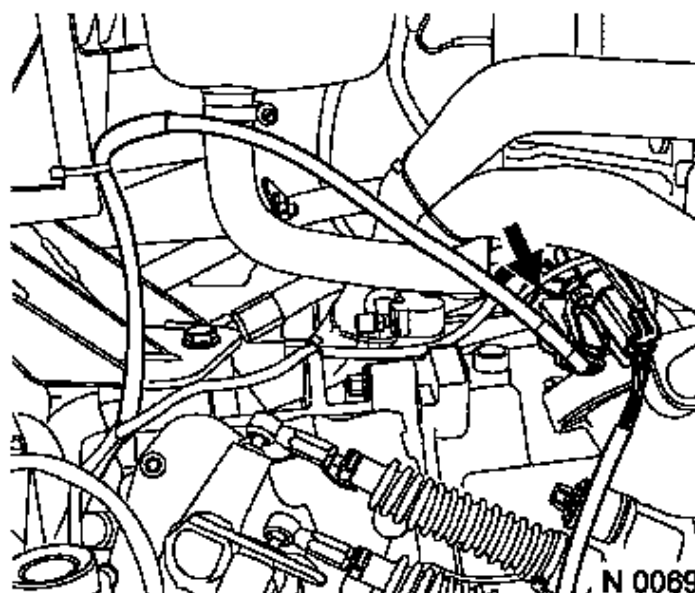
**Install**

Left exhaust pipe mounting (arrowed) – 1 screw.



Wiring harness to both oxygen sensors – cable ties.

Wiring harness plugs of oxygen sensors – 2 wiring harness plugs (arrowed).



Bleed air from braking system – see operation "Brake System, Bleed" in group H.



**Install**

Braking system for leaks.

Transmission oil level.

Rear clamshell – see operation "Rear Clamshell, Remove and Install".

