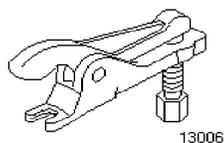
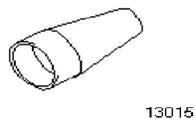


## Steering Gear Assembly - Remove And Install (13 116 0)

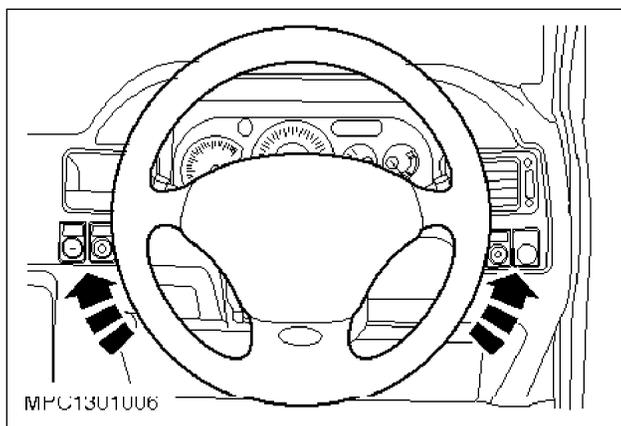
### Special Tools



13-006 Separator, ball joint

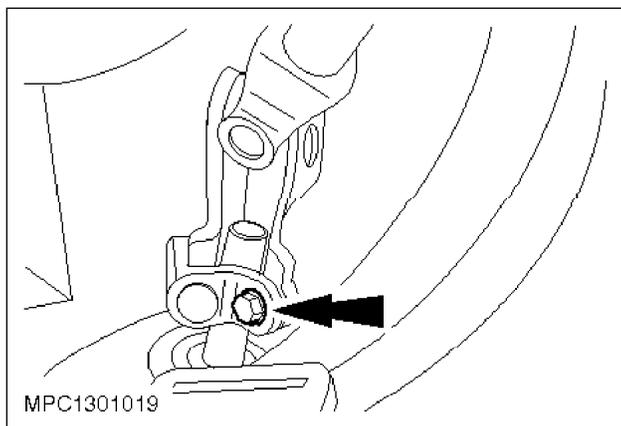


13-015 Expander, Teflon seal

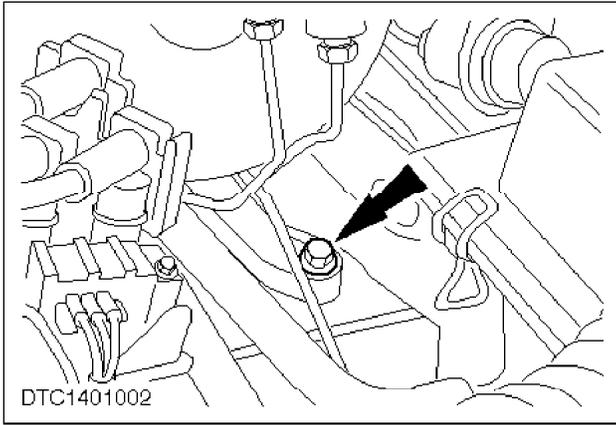


### Remove

1. Centralise the steering wheel and lock in position.



2. Remove the flexible coupling to pinion shaft pinch bolt.



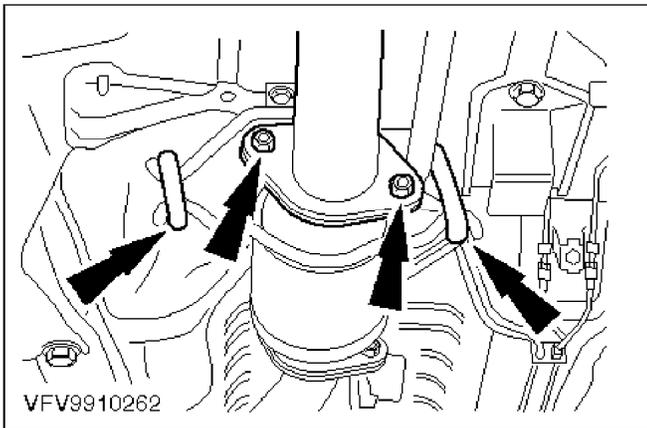
- 3. Remove the engine/transmission mounting bracket upper bolt.
- 4. Raise the vehicle.

**All except diesel**

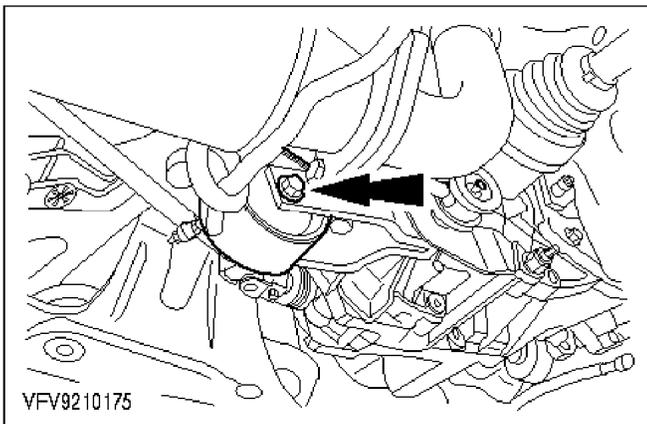
- 5. Remove the exhaust downpipe (refer to [Operation Number 25 2!J 0»](#))

**Vehicles with diesel engine**

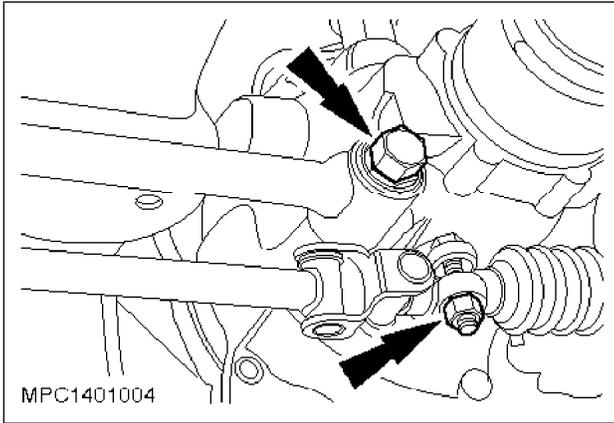
- 6. Remove the lower engine cover.



- 7. Detach the exhaust pipe from the catalytic converter and position to one side.

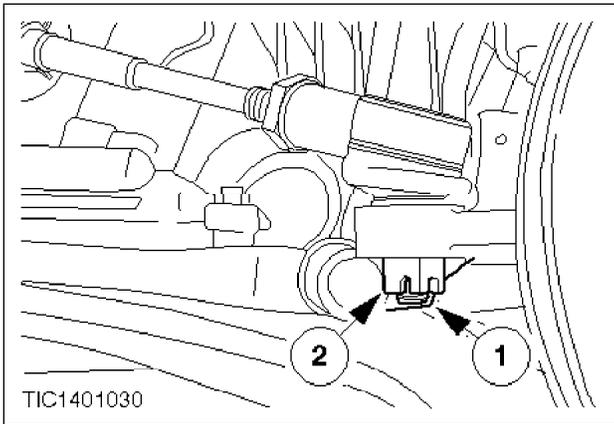


- 8. Remove the rear roll restrictor centre bolt.



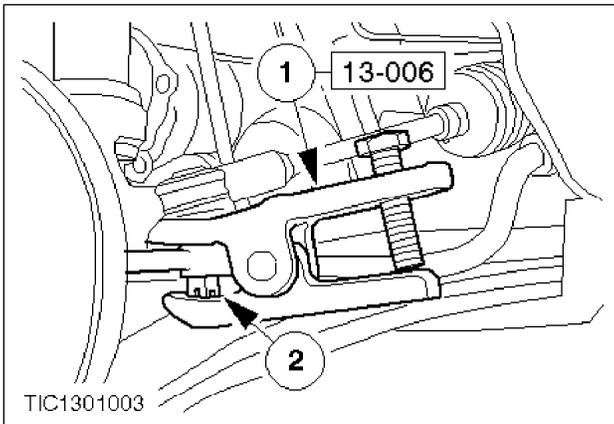
**All Vehicles**

- 9. Disconnect the gear change linkage.



**Vehicles built up to 2/1995**

- 10. Slacken both track rod end castellated nuts.
  - 1 Remove the split pins and discard.
  - 2 Slacken the castellated nuts.

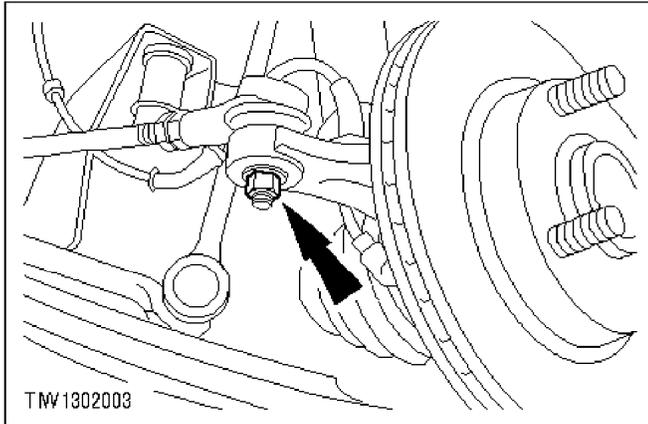


**Note:**

When the track rod ends are separated from the spindle carriers the ball joint seals should be wrapped in cloth to protect them.

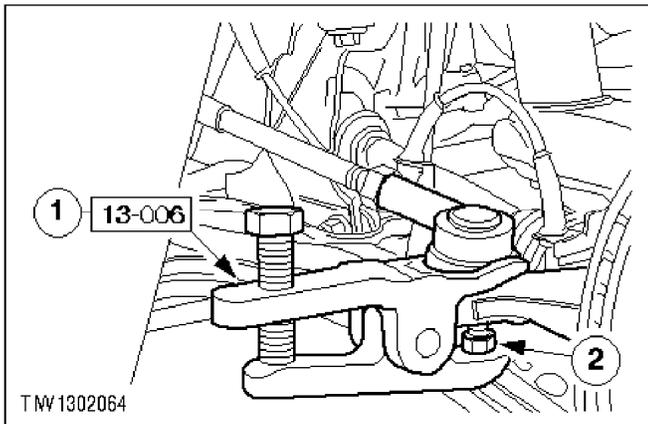
- 11. Release the track rod ends from the spindle carriers.

- 1 Release the track rod ends.
- 2 Remove the castellated nuts.



### Vehicles built 2/1995 onwards

- 12. Slacken both track rod end retaining nuts.

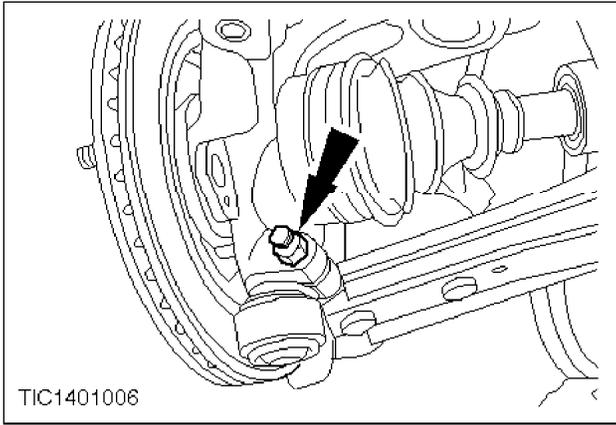


#### Note:

When the track rod ends are separated from the spindle carriers the ball joint seals should be wrapped in cloth to protect them.

- 13. Release the track rod ends from the spindle carriers.

- 1 Release the track rod ends.
- 2 Remove the retaining nuts.

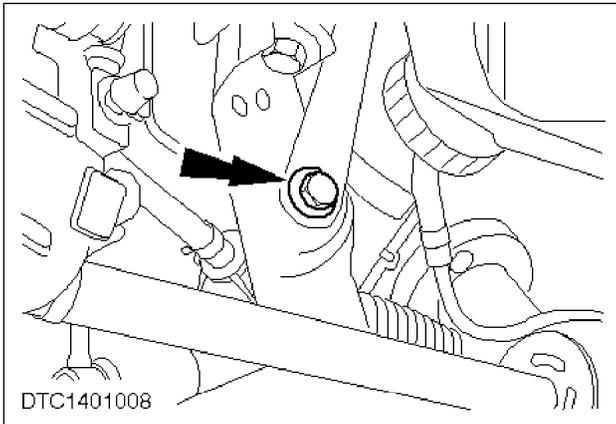


## All Vehicles

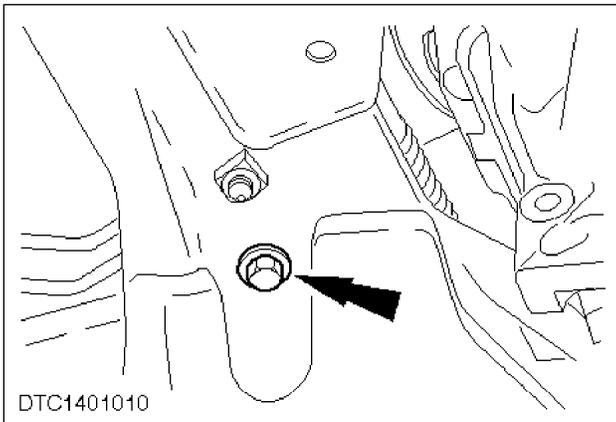
### Note:

When the lower arms are separated from the spindle carriers the ball joint seals should be wrapped in cloth to protect them.

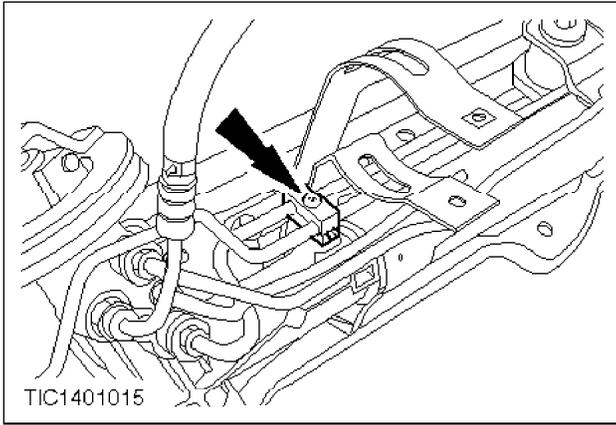
- 14 Remove the lower arm to spindle carrier pinch bolts and nuts.
- 15 Disconnect the lower arms from the spindle carriers.



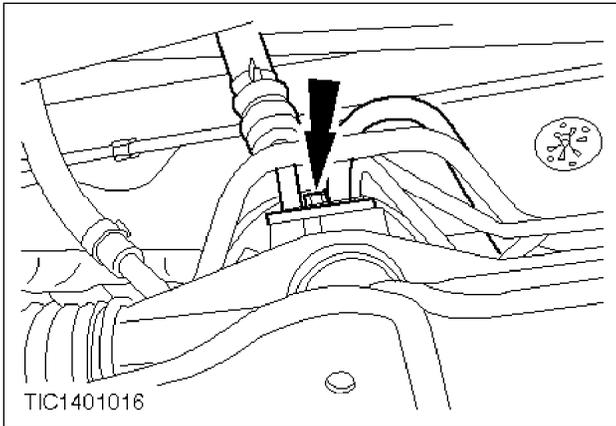
- 16 Remove the right-hand engine support bar to subframe retaining bolt.



- 17 Remove the engine/transmission mounting bracket lower bolt.

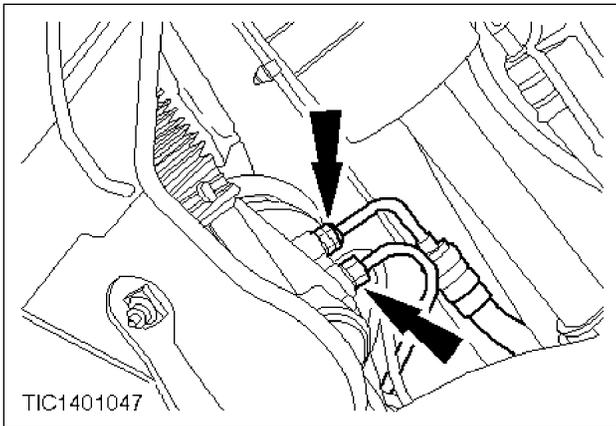


- 18 Disconnect the power steering gear pipes from the clamp (one screw).



### Vehicles with TRW steering gear

- 19 Remove the power steering gear pipe clamp plate (one bolt).

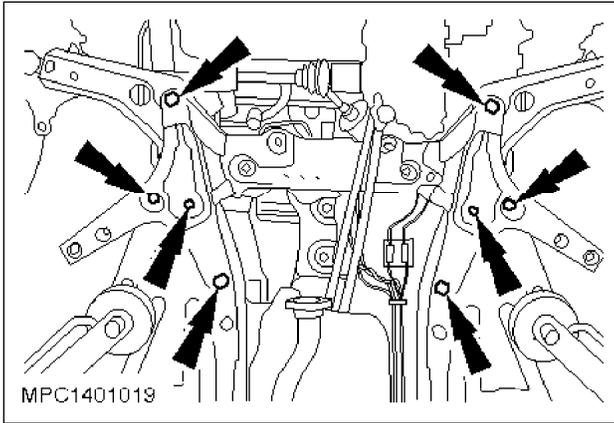


### Vehicles with Wuefrath steering gear

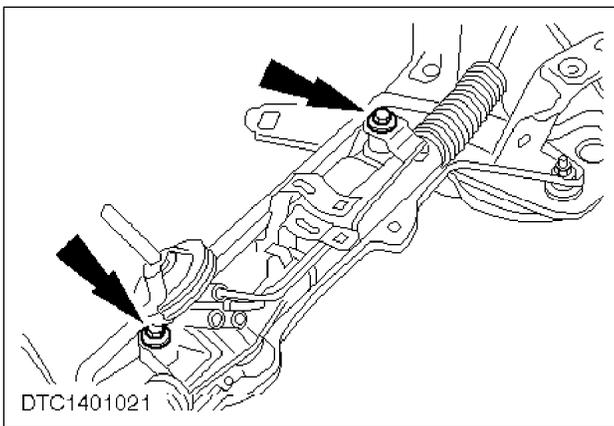
- 20 Disconnect the power steering gear pipe unions from the steering gear valve body.

### All Vehicles

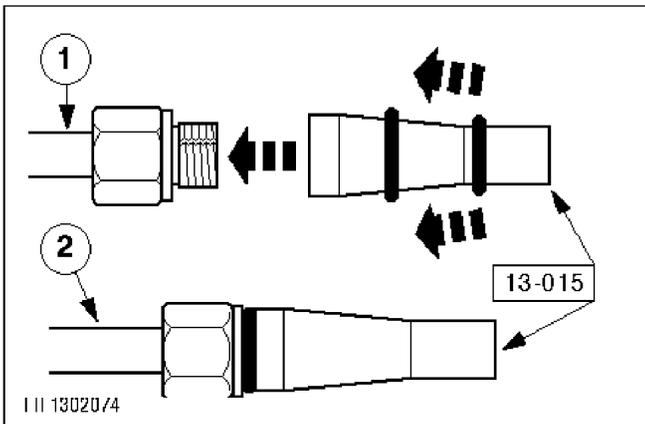
- 21 Support the subframe.



- 22 Remove the seven subframe retaining bolts (support removed for clarity).
- 23 Carefully lower and remove the subframe.



- 24 Remove the steering gear (two bolts).

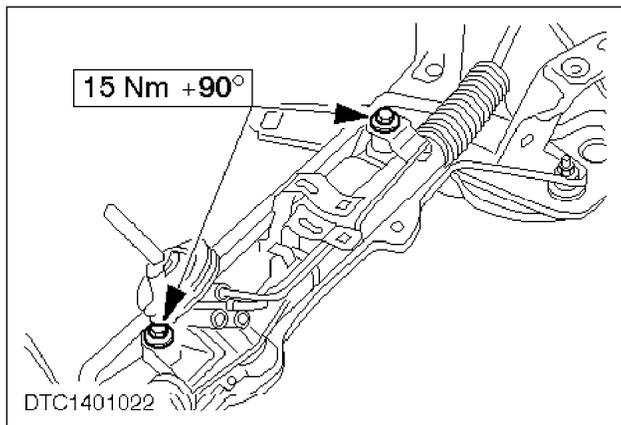


## Install

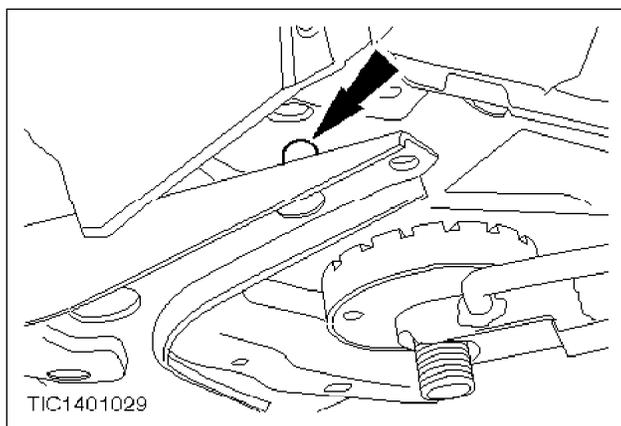
### Note:

If installing a new steering gear, the unions that are supplied fitted to the steering gear should be removed and retained for future use.

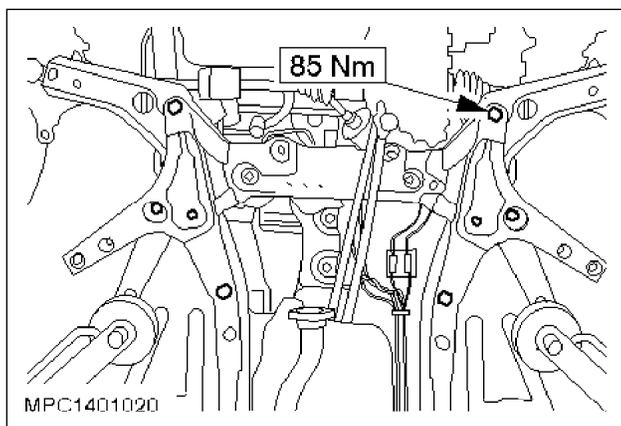
- 25 When necessary install new sealing rings.
  - 1 Push the sealing ring onto the tool.
  - 2 Locate the tool on the union and push on the sealing ring.



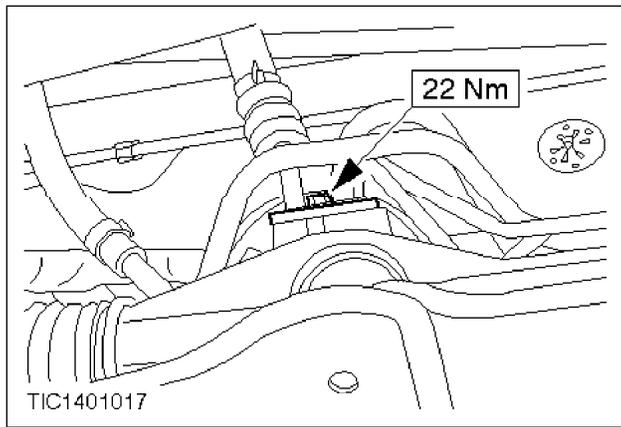
- 26. Install the steering gear.



- 27. Align the subframe.

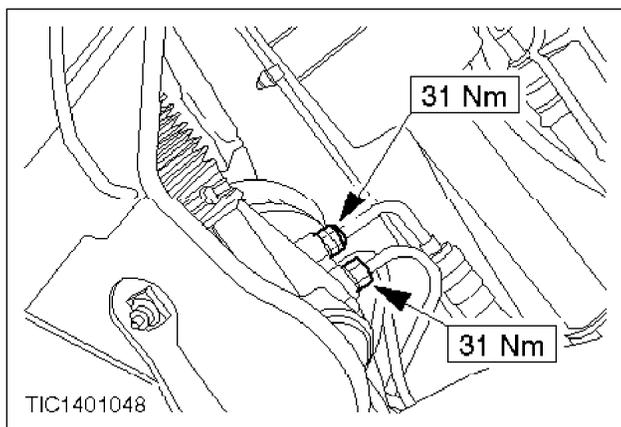


- 28. Install the subframe retaining bolts.



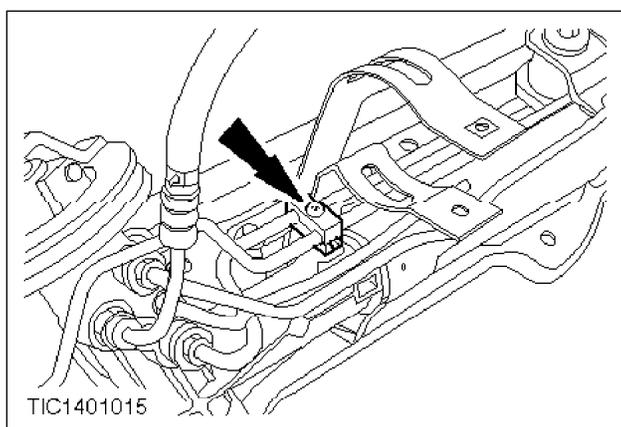
### Vehicles with TRW steering gear

- 29 Install the clamp plate bolt.



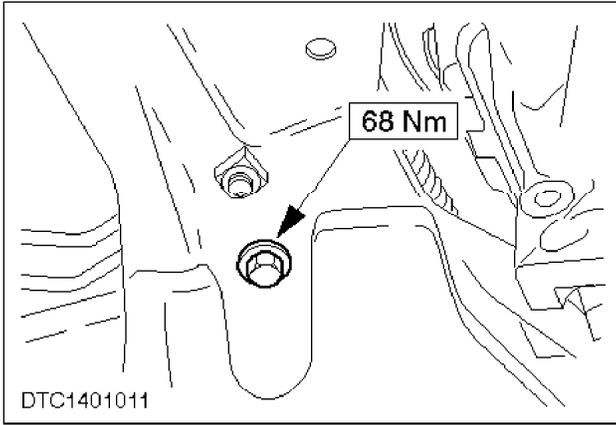
### Vehicles with Wuefrath steering gear

- 30 Install the power steering gear pipes.

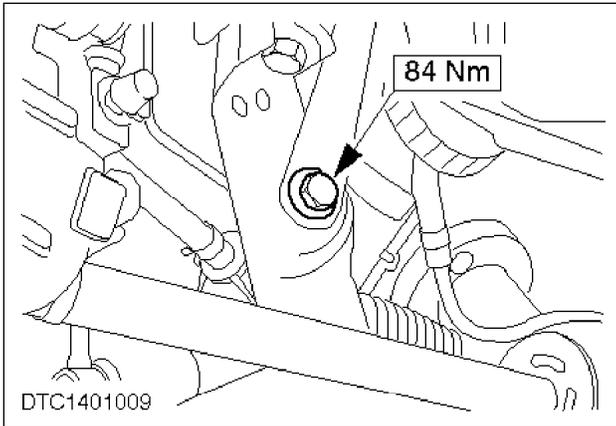


### All Vehicles

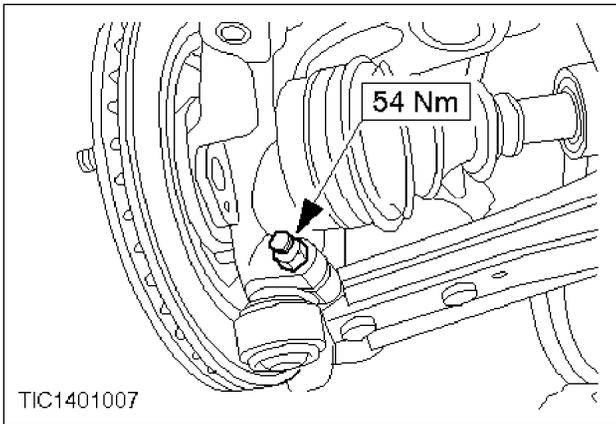
- 31 Connect the power steering gear pipes to the clamp.



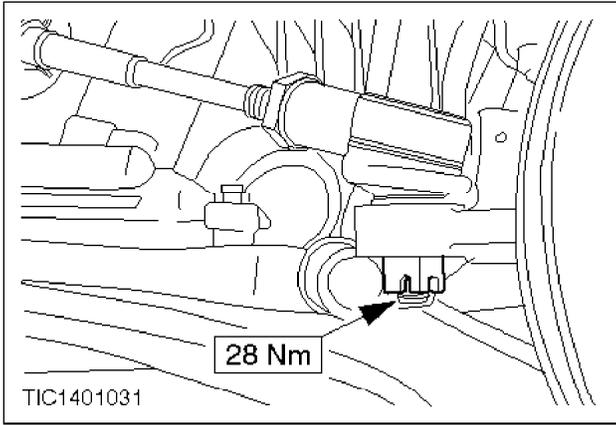
- 32 Install the engine/transmission mounting bracket lower bolt.



- 33 Install the right-hand engine support bar to subframe retaining bolt.



- 34 Install the lower arms to the spindle carriers.

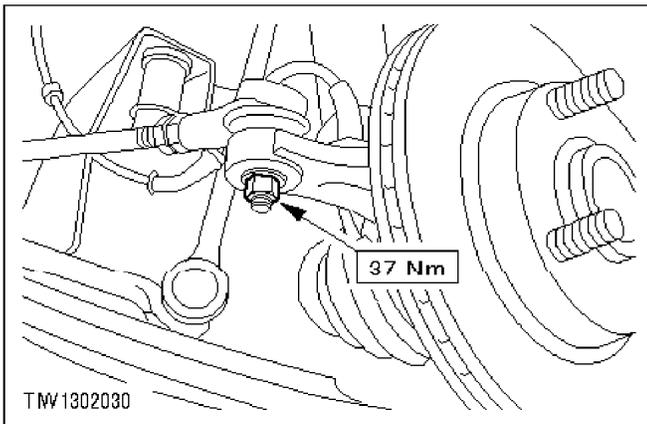


### Vehicles built up to 2/1995

Note:

Install new split pins.

- 35 Install the track rod ends.

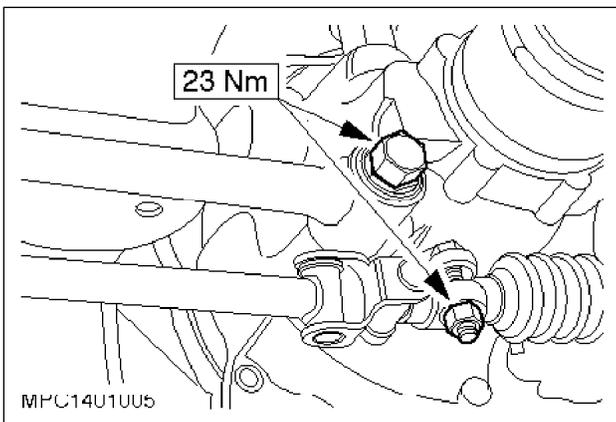


### Vehicles built 2/1995 onwards

Note:

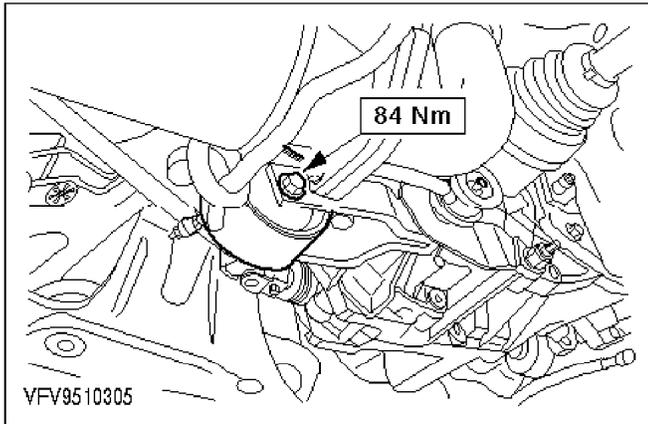
Install new nyloc retaining nuts.

- 36 Install the track rod ends.



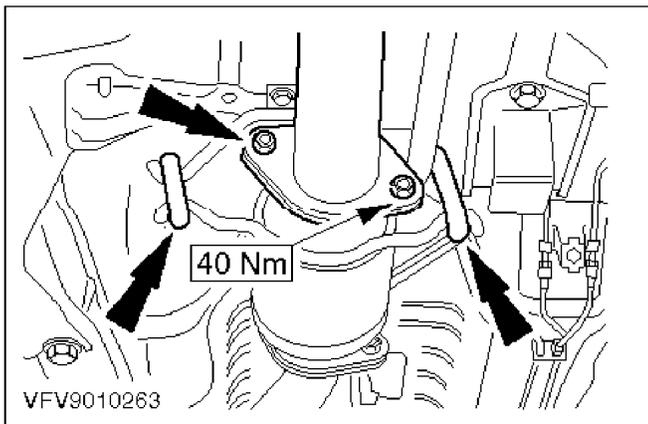
### All Vehicles

- 37 Connect the gear change linkage.



### Vehicles with diesel engines

- 38 Install the rear roll restrictor centre bolt.



- 39 Install the exhaust pipe to the catalytic converter.
- 40 Install the lower engine cover.

### All except diesel

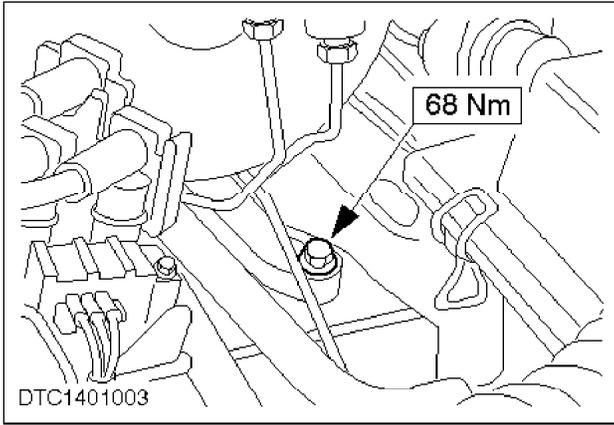
- 41 Install the exhaust downpipe (refer to [Operation Number 25 2!](#)) 0»

### All vehicles

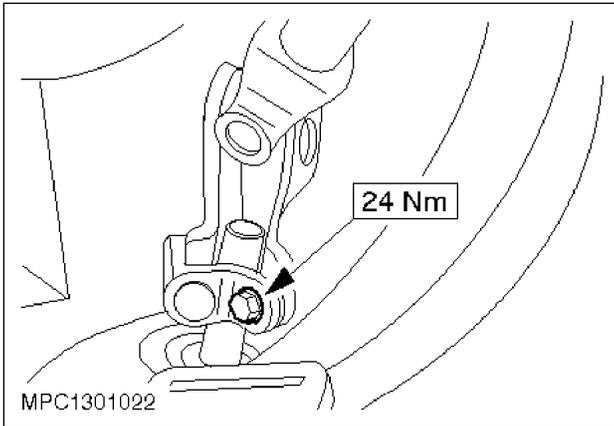
Note:

Before lowering the vehicle, make sure the steering is in the straight-ahead position.

- 42 Lower the vehicle.



- 43 Install the engine/transmission mounting bracket upper bolt.



- 44 Install the flexible coupling to pinion shaft pinch bolt.
  - 45 Bleed the power steering system (r«**Operation Number 13 4**» 5 1»
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