

## Air Conditioning (A/C) Compressor 82.10.20

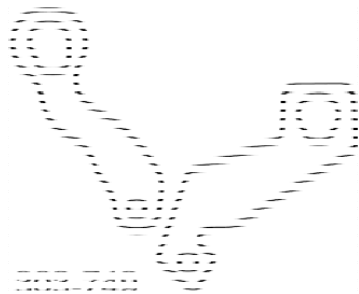
### Special Service tools



303-021

Engine support beam.  
303-021

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303-749

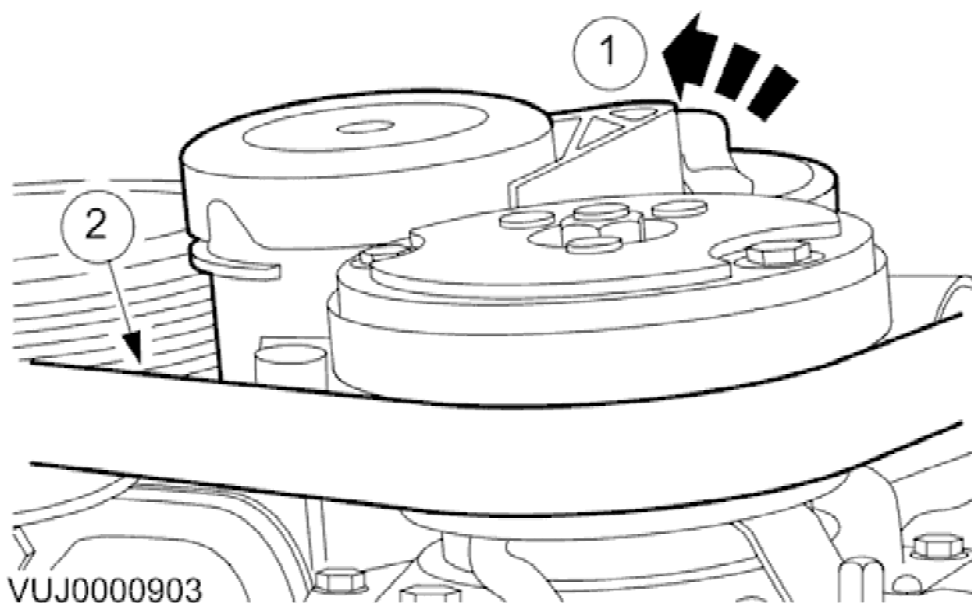
Engine lifting brackets  
303-749

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### All vehicles

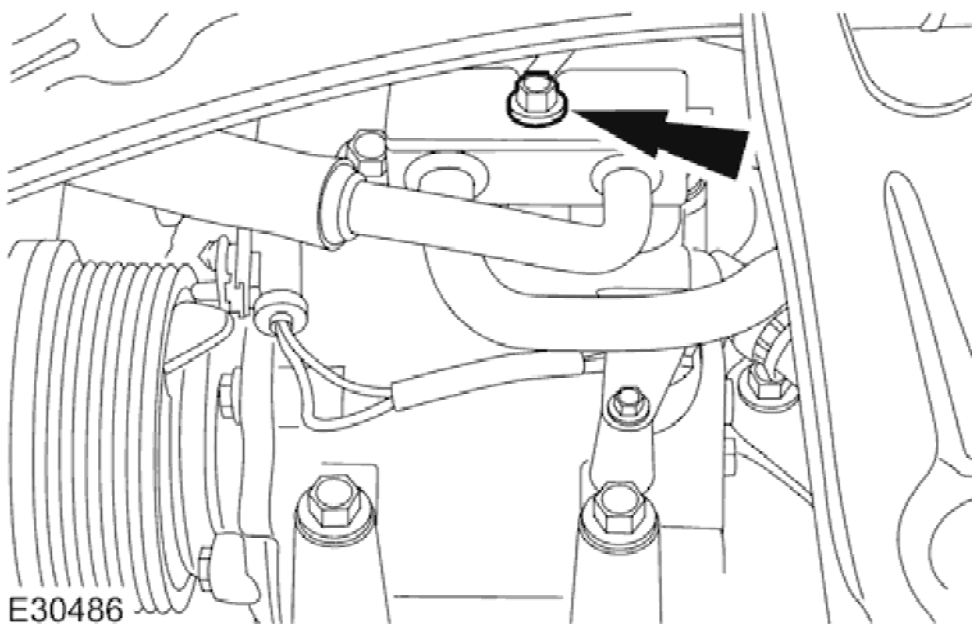
1. Carry out the air conditioning (A/C) system recovery procedure. <<412-00>>
2. Disconnect the battery ground cable. <<414-01>>
3. Remove the air deflector. <<501-02>>

### Vehicles with 2.5L or 3.0L engine



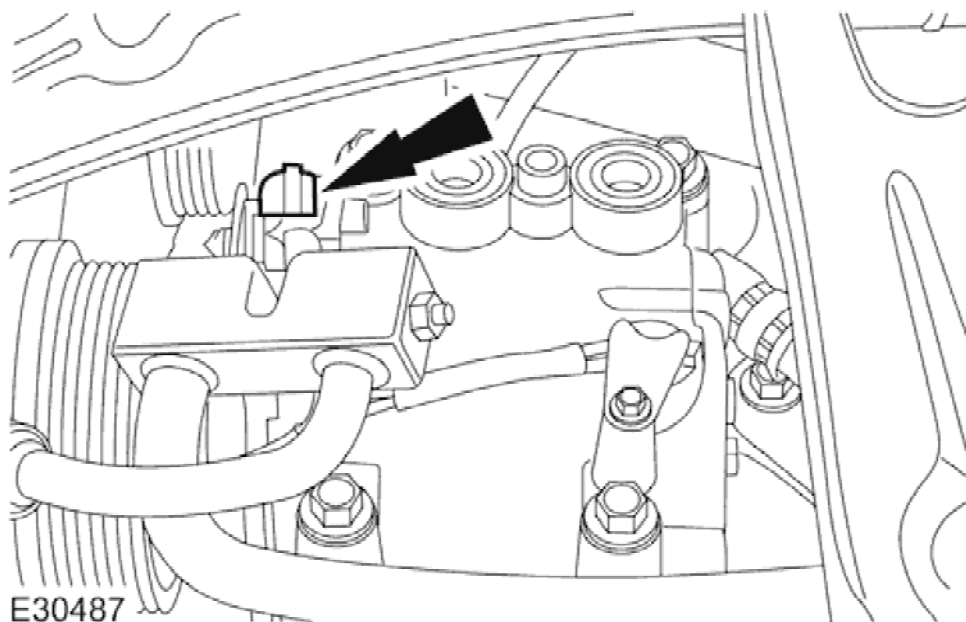
4. Detach the accessory drive belt.

1. Rotate the accessory drive belt tensioner counter-clockwise.
  - Use a 3/8 inch square drive bar to rotate the accessory drive belt tensioner.
2. Detach the accessory drive belt.

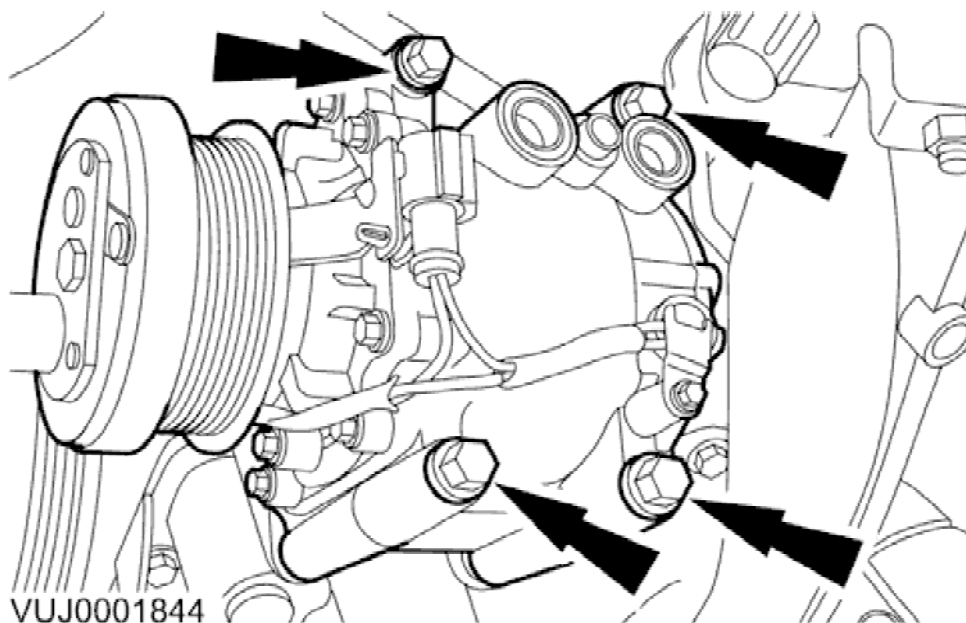


5. Disconnect the A/C compressor supply and return lines.

- Remove and discard the A/C compressor O-ring seals.
- Cap the exposed ports.



6. Disconnect the A/C compressor electrical connector.

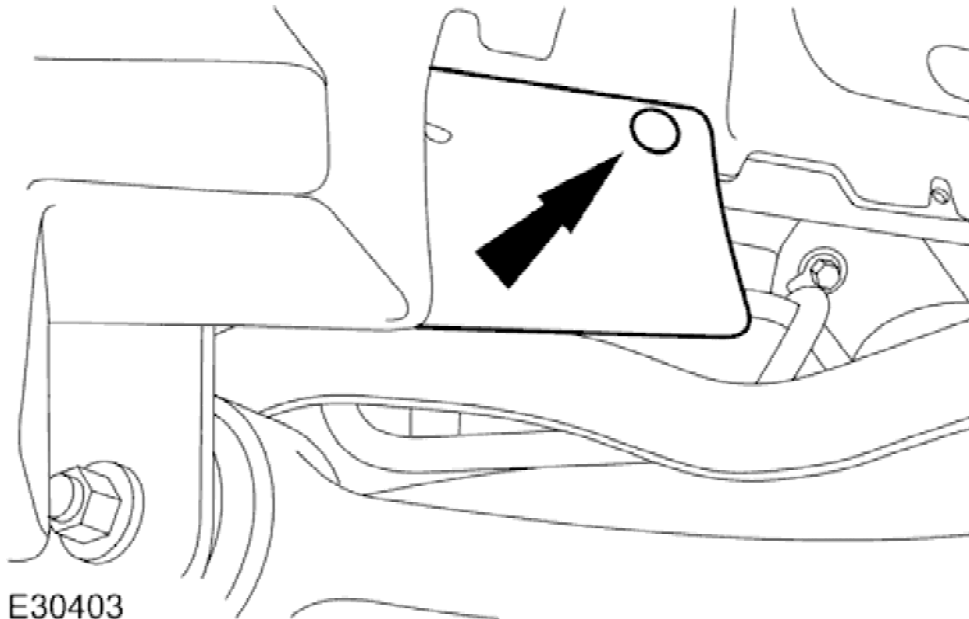


7. Remove the A/C compressor.

### Vehicles with 4.2L engine

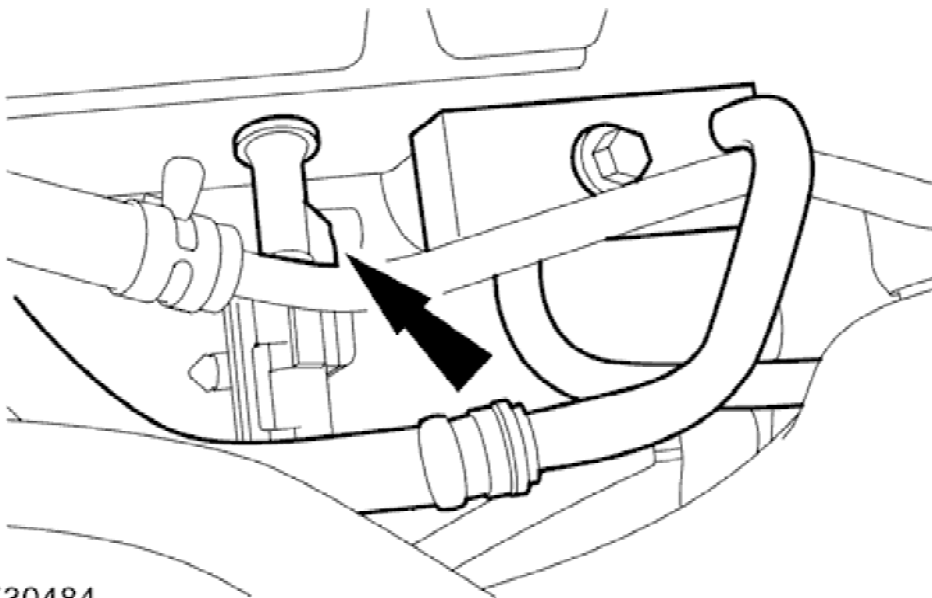
8. Remove the air cleaner outlet pipe. <<303-12A>><<303-12B>>

9. Remove the left-hand wheel and tire assembly. <<204-04>>



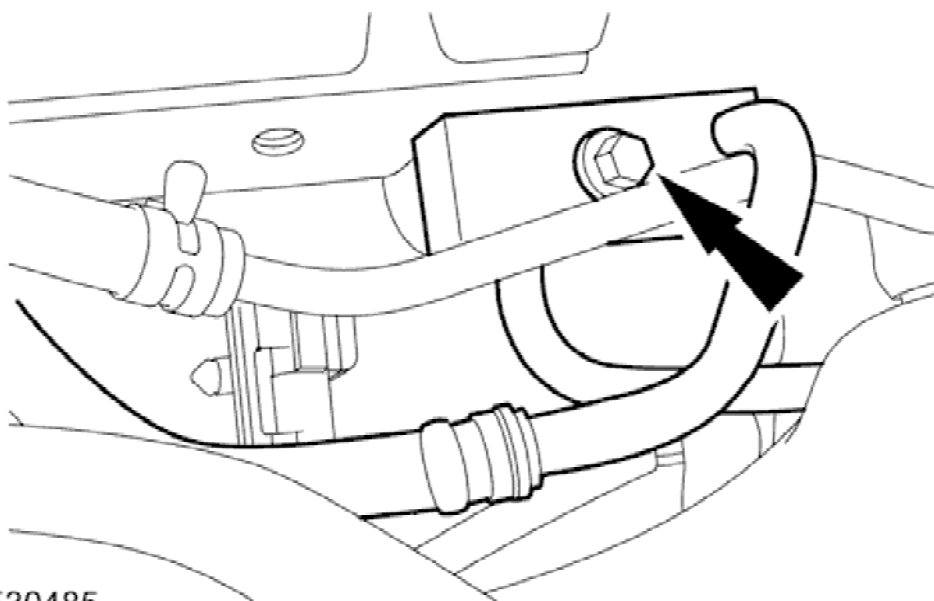
E30403

10. Reposition the drive belt splash shield.
  - Remove the drive belt splash shield retaining clip.



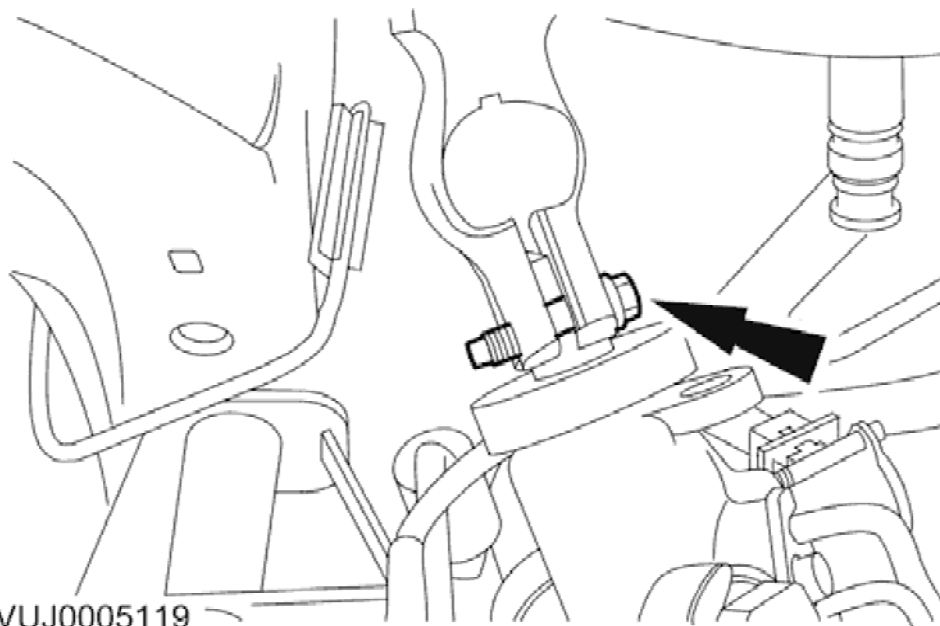
E30484

11. Disconnect the A/C compressor electrical connector.



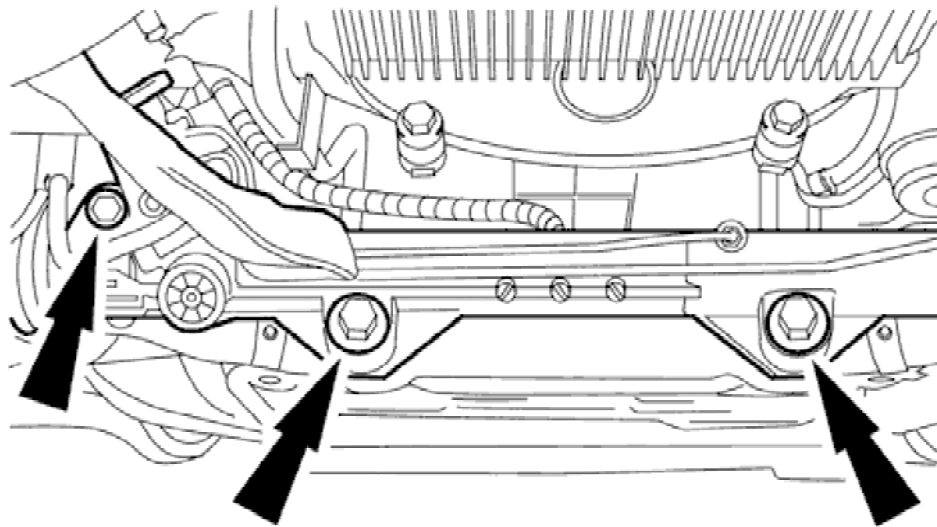
E30485

12. Detach the A/C compressor supply and return lines.
- Remove and discard the A/C compressor O-ring seals.
  - Cap the exposed ports.



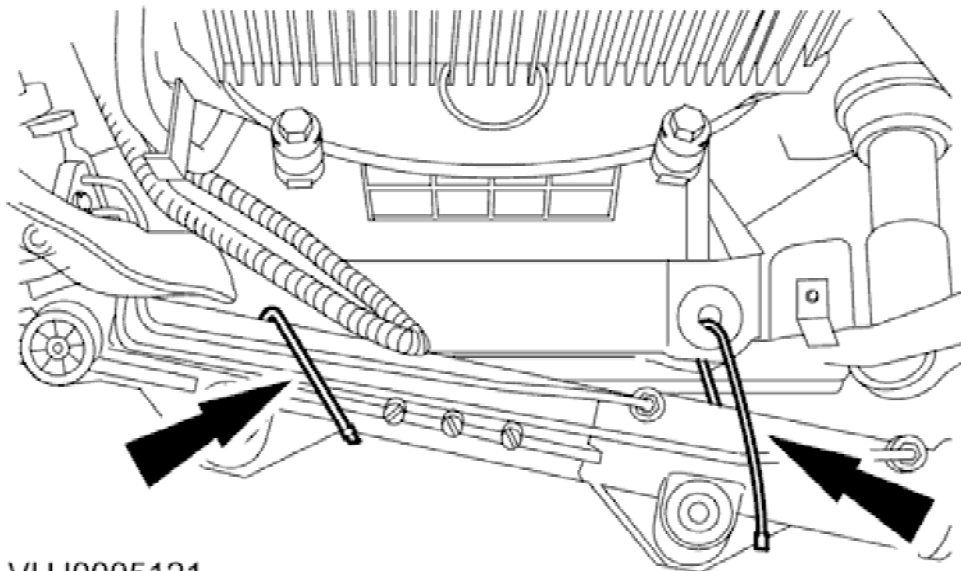
VUJ0005119

13. Remove the steering gear shaft pinch bolt.



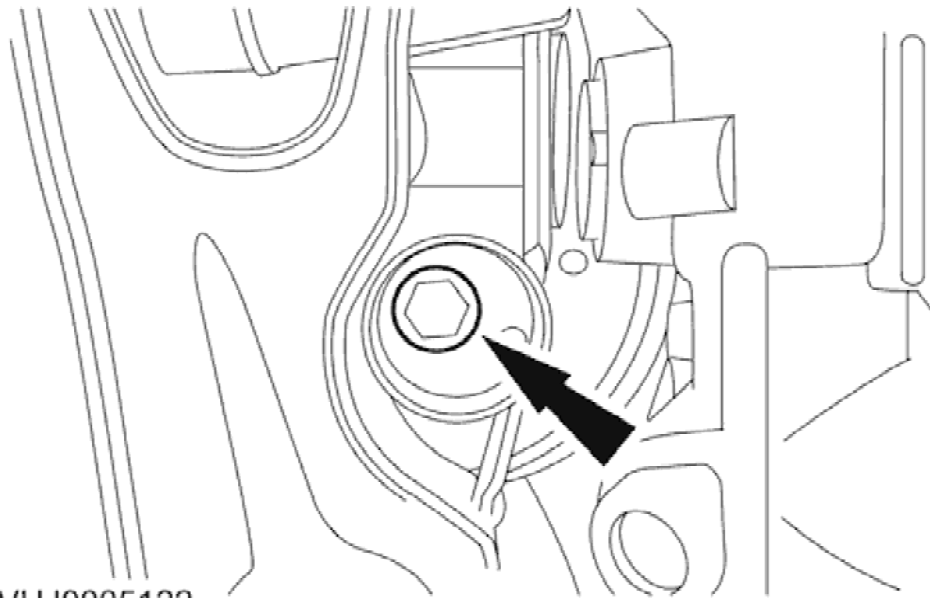
VUJ0005142

14. Detach the steering gear.



VUJ0005121

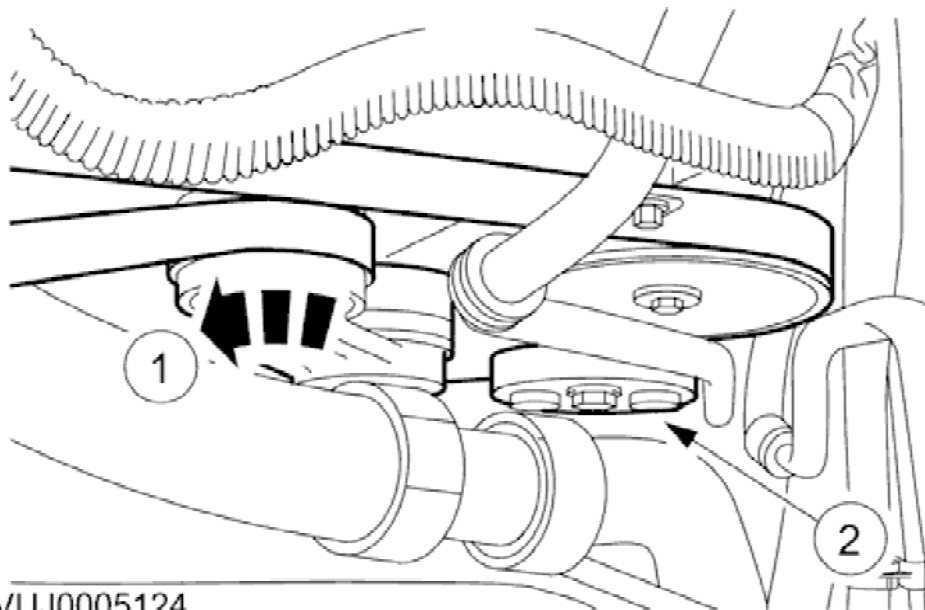
15. Secure the steering gear.



VUJ0005122

16. Remove the left-hand engine mounting lower retaining bolt.

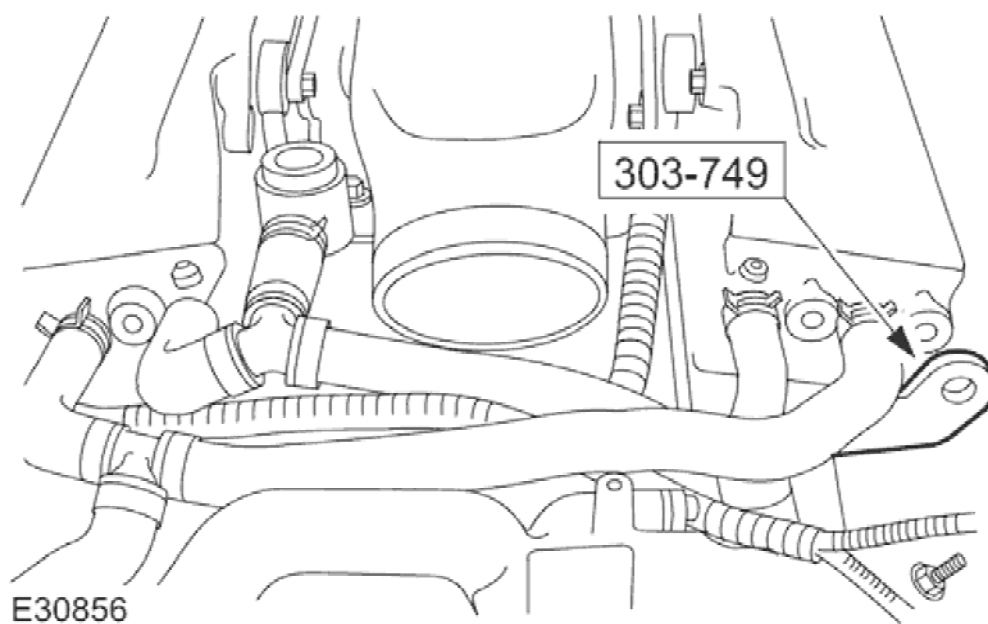
17. Lower the vehicle.



VUJ0005124

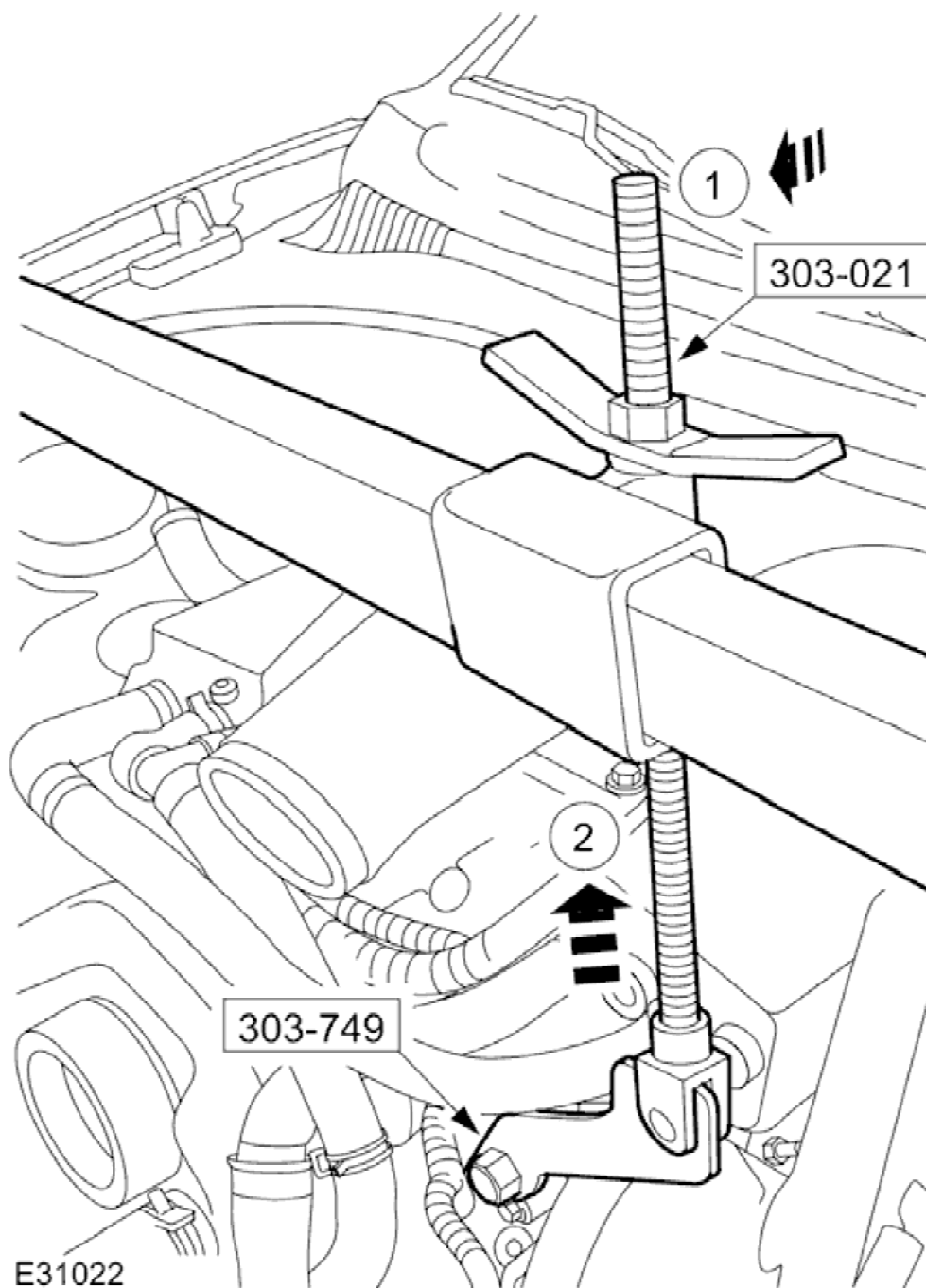
18. Detach the accessory drive belt.

1. Rotate the accessory drive belt tensioner counter-clockwise.
  - Use a 3/8 inch square drive bar to rotate the accessory drive belt tensioner.
2. Detach the accessory drive belt.



19. Install the left hand engine lifting eye.

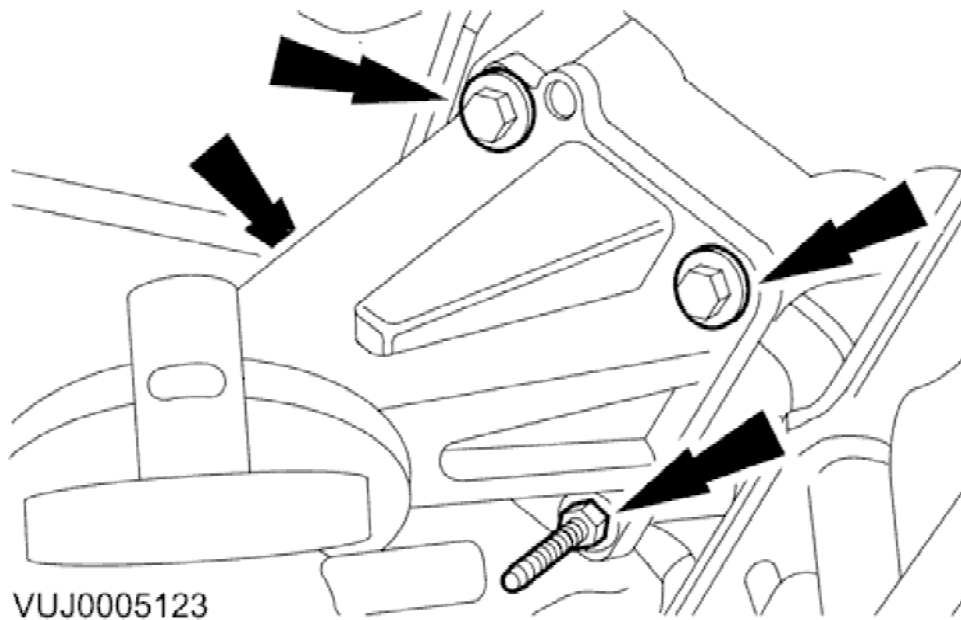




E31022

20. Using the special tools, raise the engine to a suitable height.

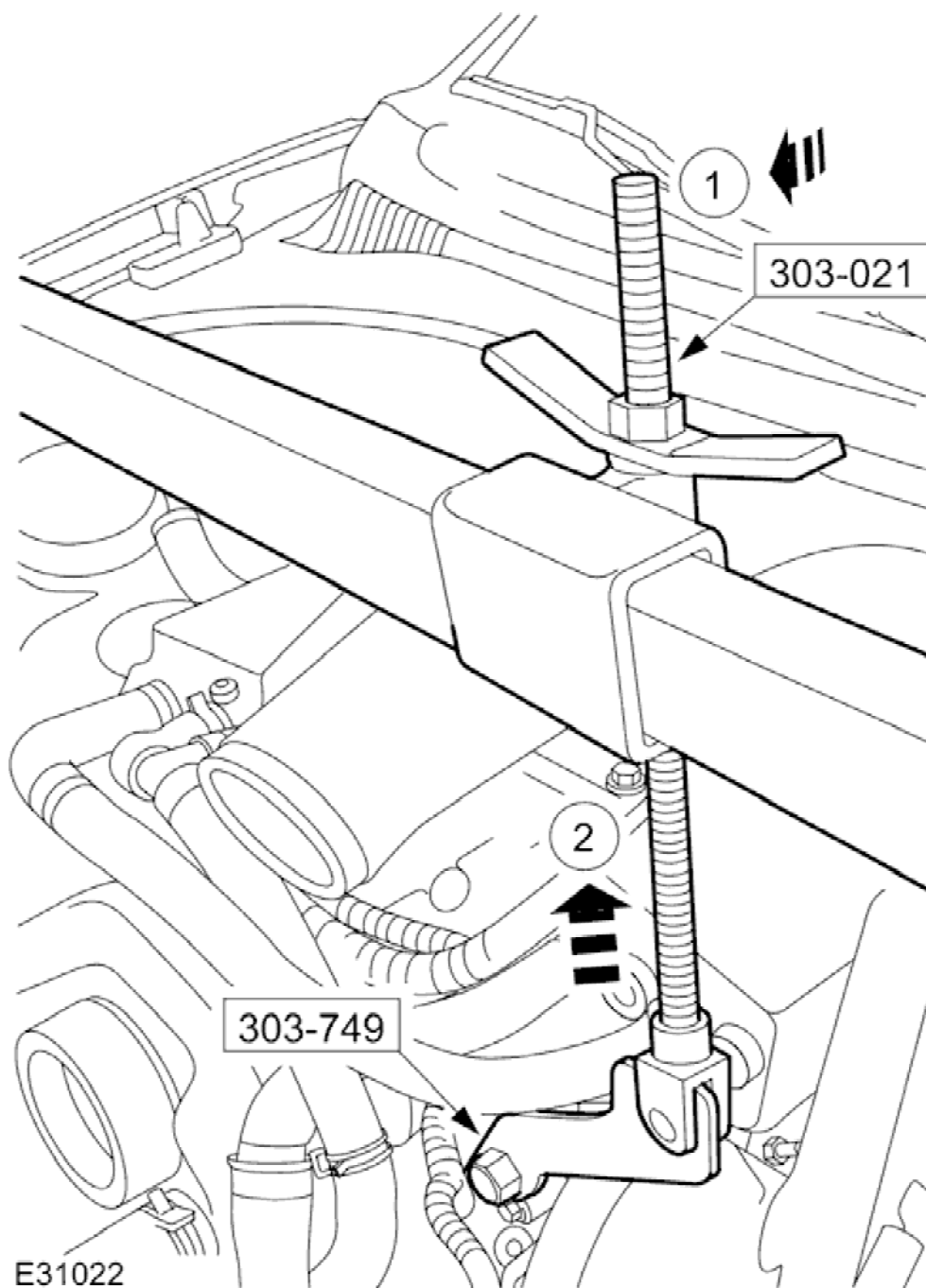
21. Raise the vehicle.



VUJ0005123

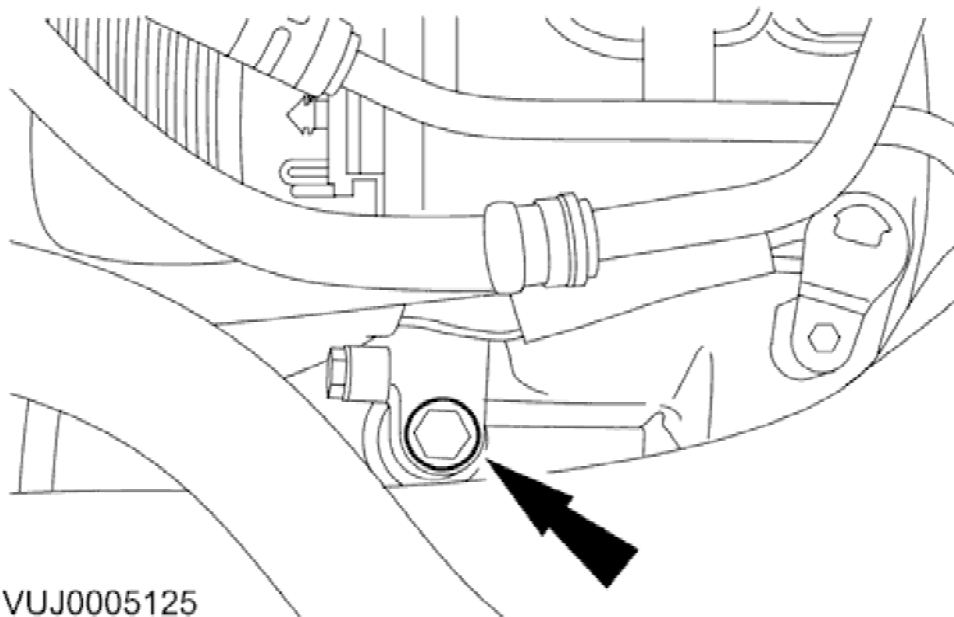
22. Remove the engine mounting and bracket assembly.

23. Lower the vehicle.



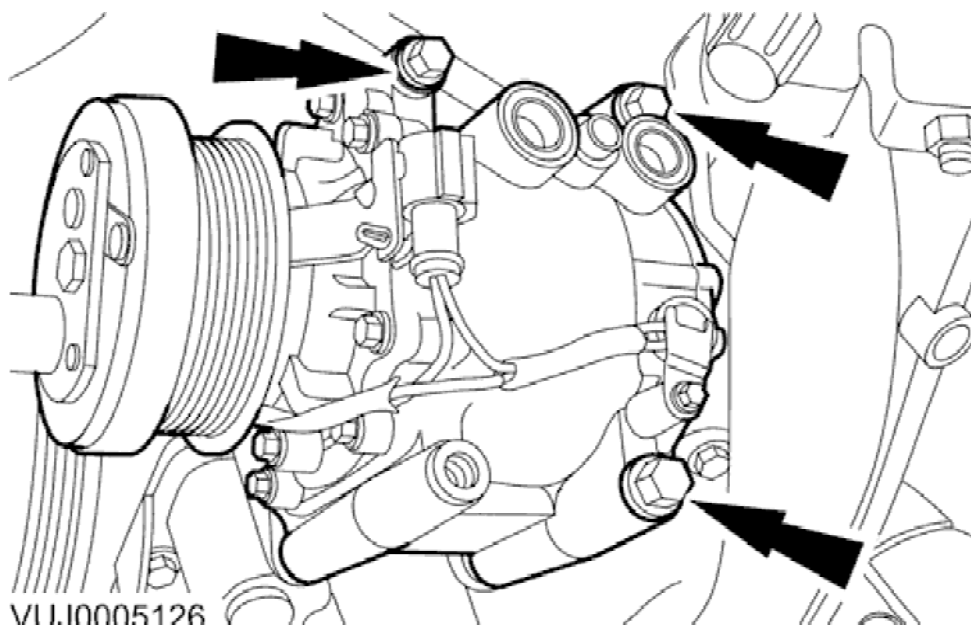
E31022

24. Using the special tools, adjust the engine to a suitable height to access the left hand lower A/C compressor retaining bolt.



VUJ0005125

25. Remove the left hand lower A/C compressor retaining bolt.



VUJ0005126

26. Remove the A/C compressor.

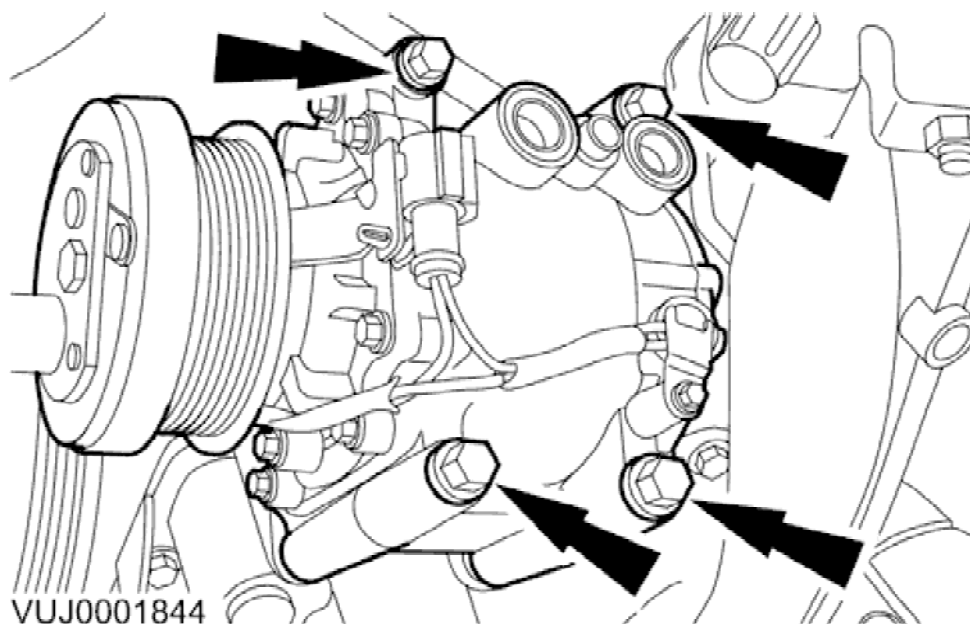
### Installation

#### All vehicles

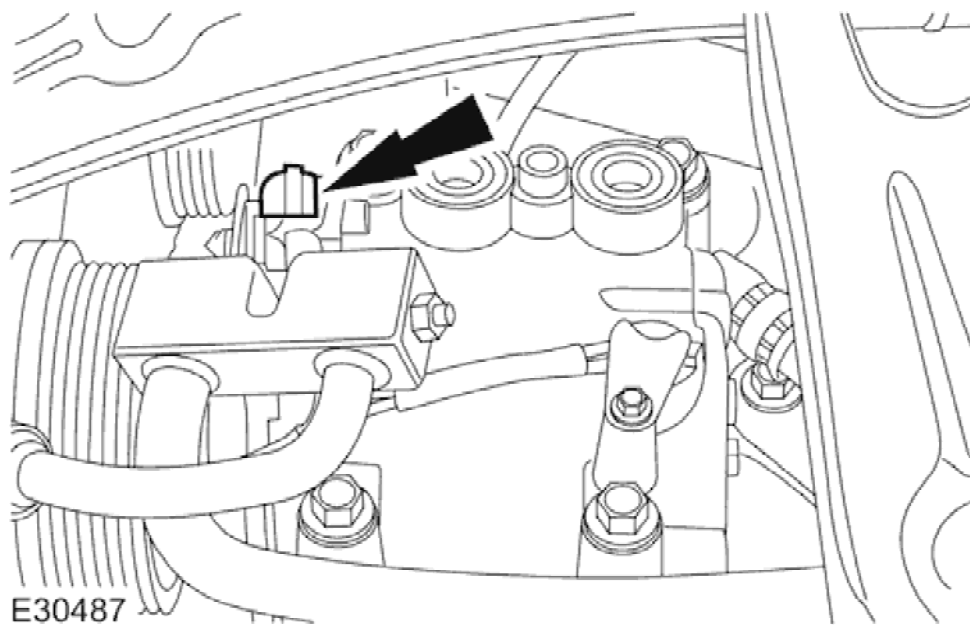
1. Add the correct amount of A/C refrigerant oil to the A/C compressor. <<412-00>>

#### Vehicles with 2.5L or 3.0L engine

## 2004 S-TYPE - Air Conditioning - 412-03



2. Install the A/C compressor.
  - Tighten to 25 Nm.



3. Connect the A/C compressor electrical connector.

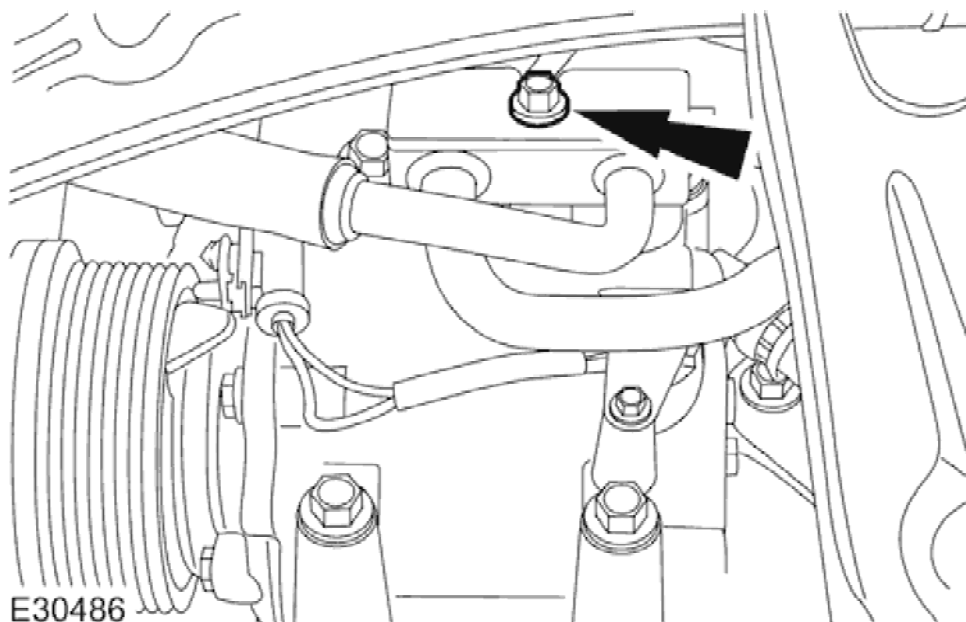
#### 4. **NOTE:**

Un-cap the exposed ports.

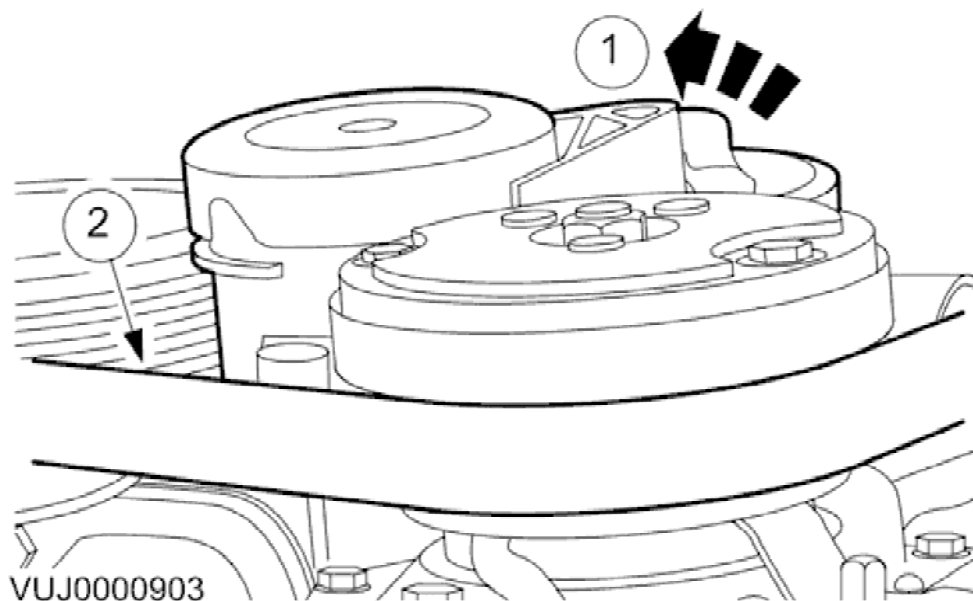
Install new A/C compressor O-ring seals.

- Lubricate the new O-rings with A/C refrigerant oil.

5. Clean off any oil residue that may contain A/C system fluorescent dye.

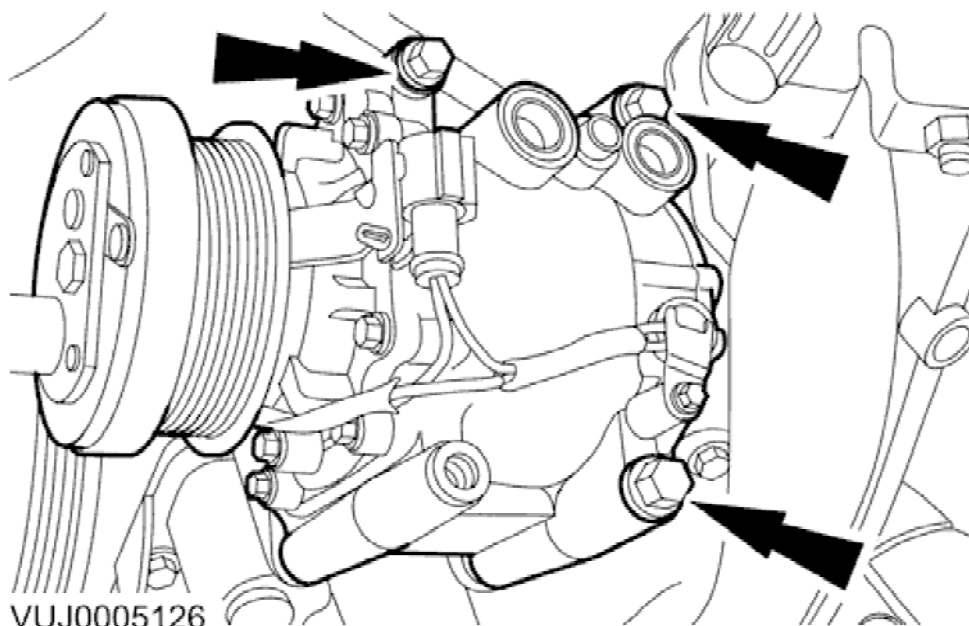


6. Connect the A/C compressor supply and return lines.
  - Tighten to 20 Nm.



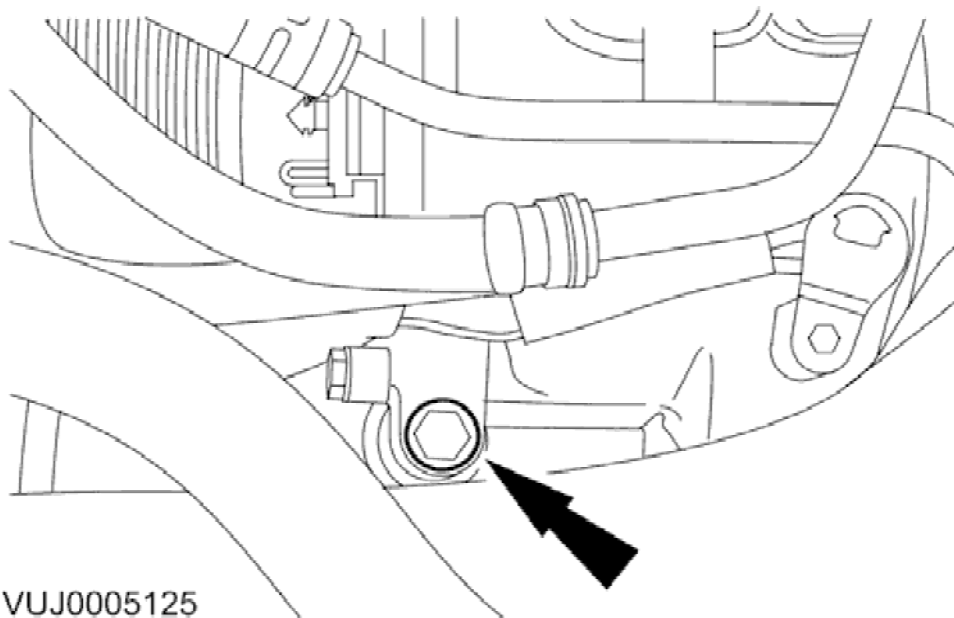
7. Attach the accessory drive belt.
  1. Rotate the accessory drive belt tensioner counter-clockwise.
    - Use a 3/8 inch square drive bar to rotate the accessory drive belt tensioner.
  2. Attach the accessory drive belt.

**Vehicles with 4.2L engine**



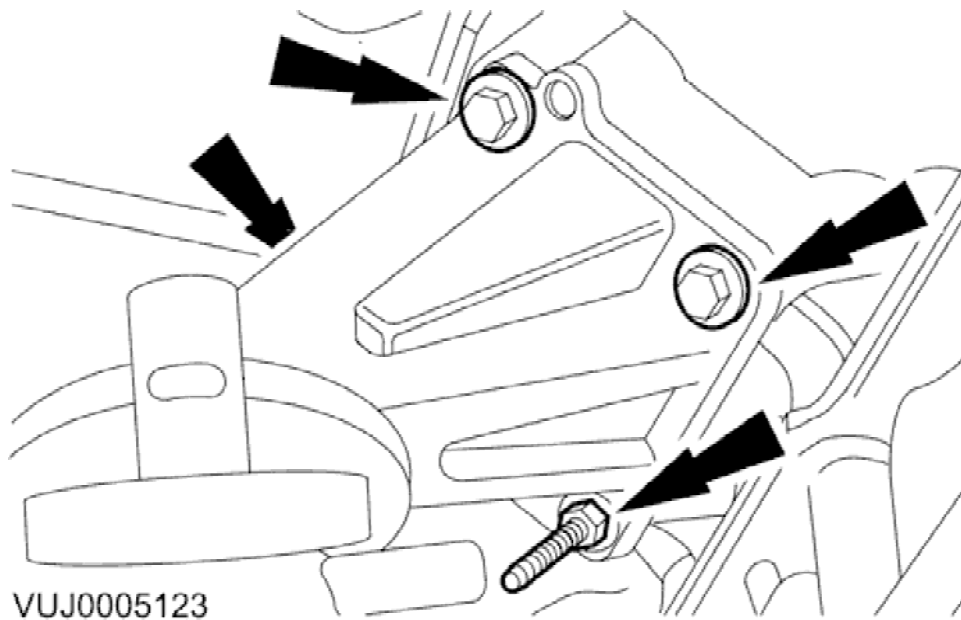
VUJ0005126

8. Install the A/C compressor.
  - Tighten to 25 Nm.



VUJ0005125

9. Install the left hand lower A/C compressor retaining bolt.
  - Tighten to 25 Nm.

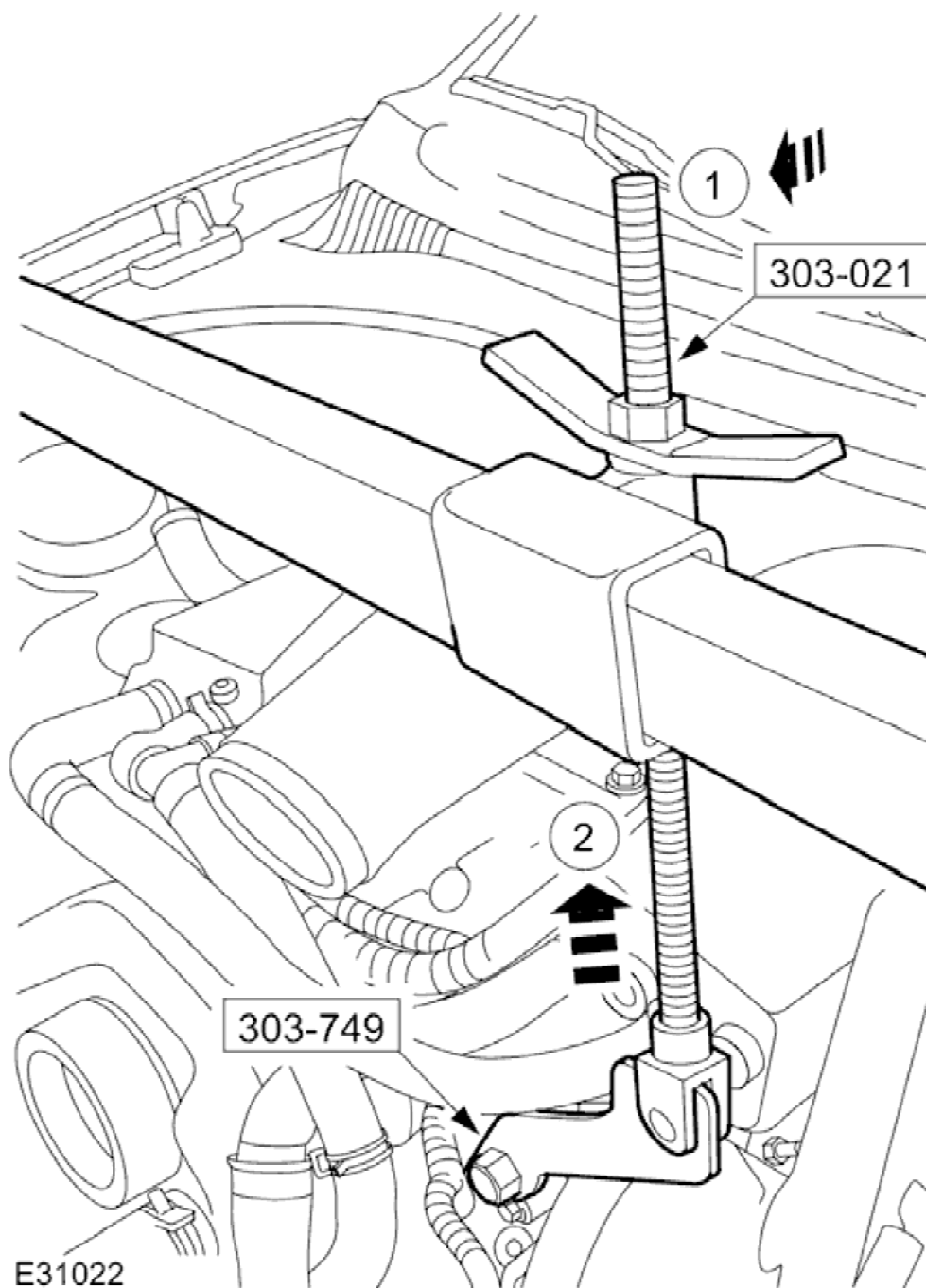


VUJ0005123

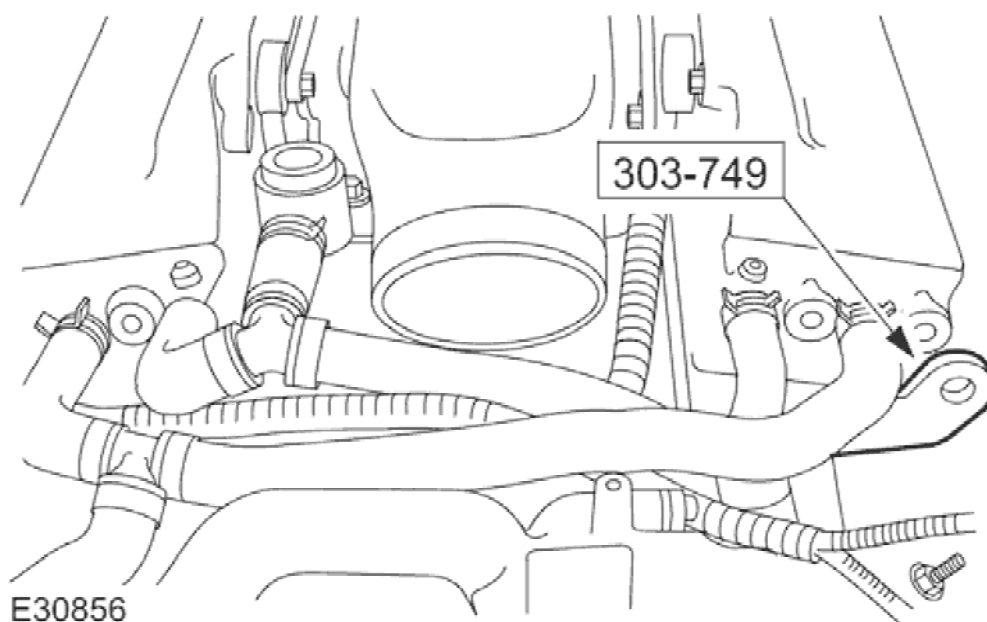
10. Install the engine mounting and bracket assembly.
  - Tighten to 25 Nm.

11. Lower the vehicle.

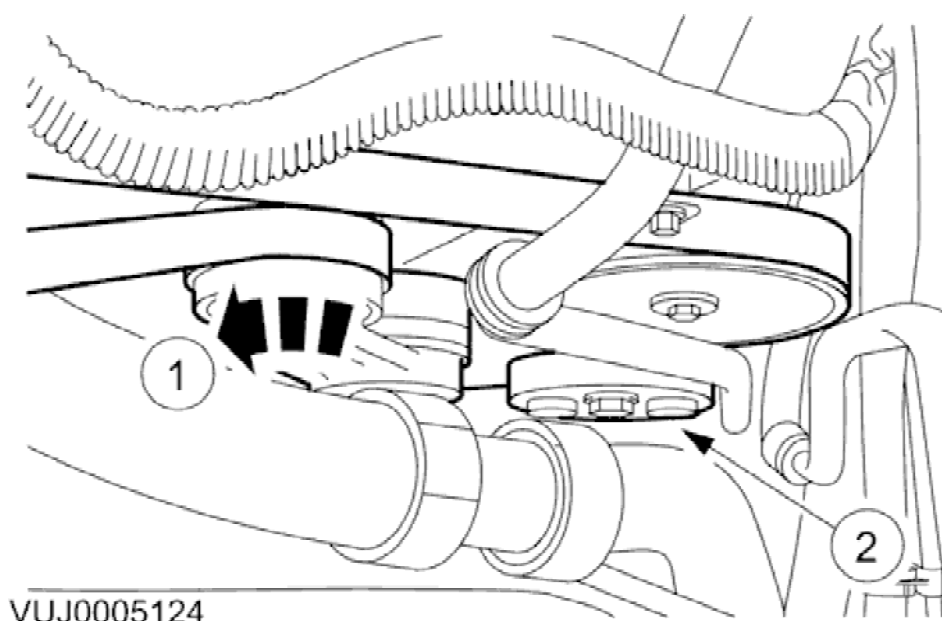




12. Using the special tools, lower the engine.



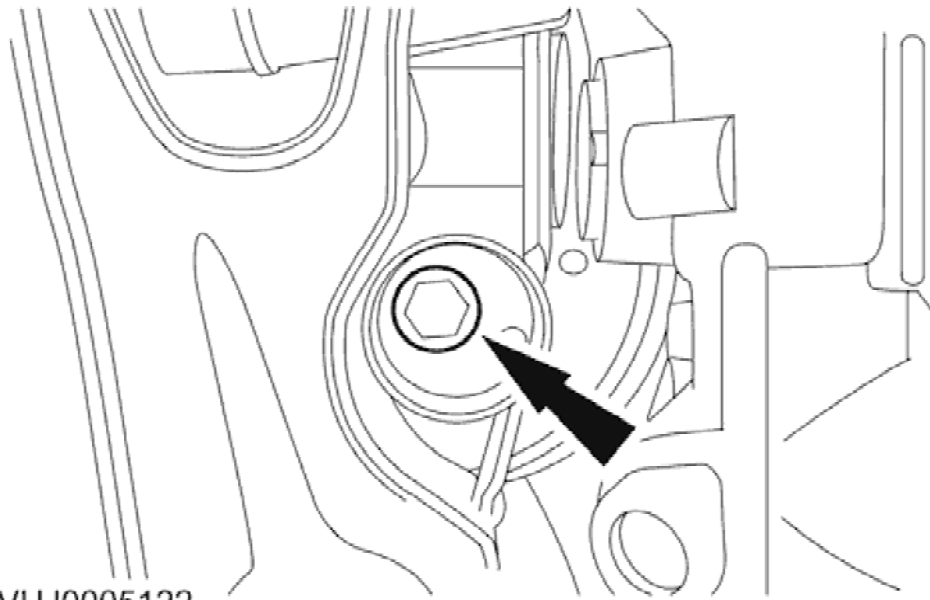
13. Remove the left hand engine lifting eye.



14. Attach the accessory drive belt.

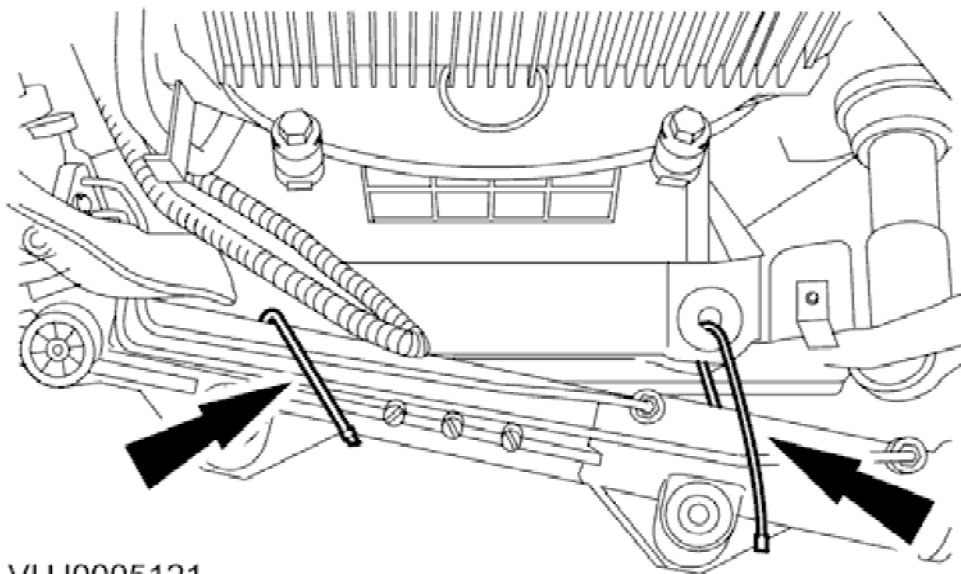
1. Rotate the accessory drive belt tensioner counter-clockwise.
  - Use a 3/8 inch square drive bar to rotate the accessory drive belt tensioner.
2. Attach the accessory drive belt.

15. Raise the vehicle.



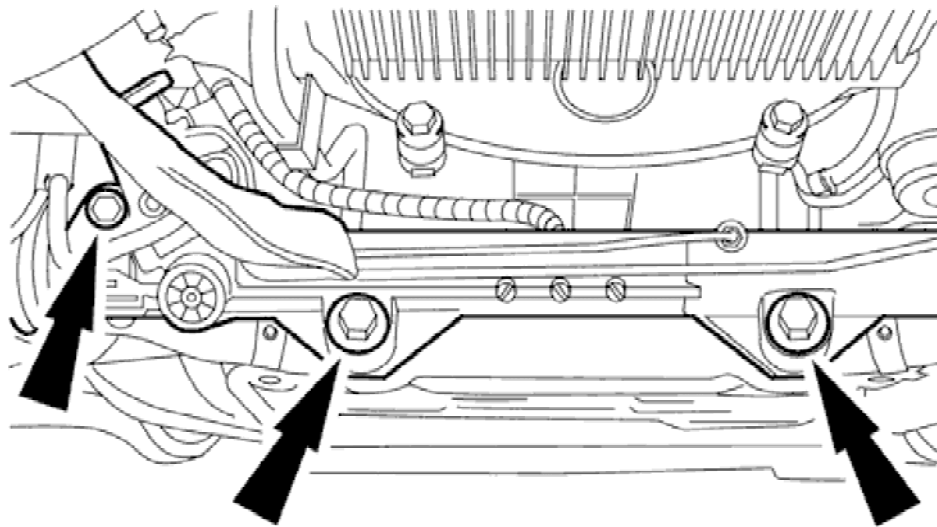
VUJ0005122

16. Install the left-hand engine mounting lower retaining bolt.
- Tighten to 63 Nm.



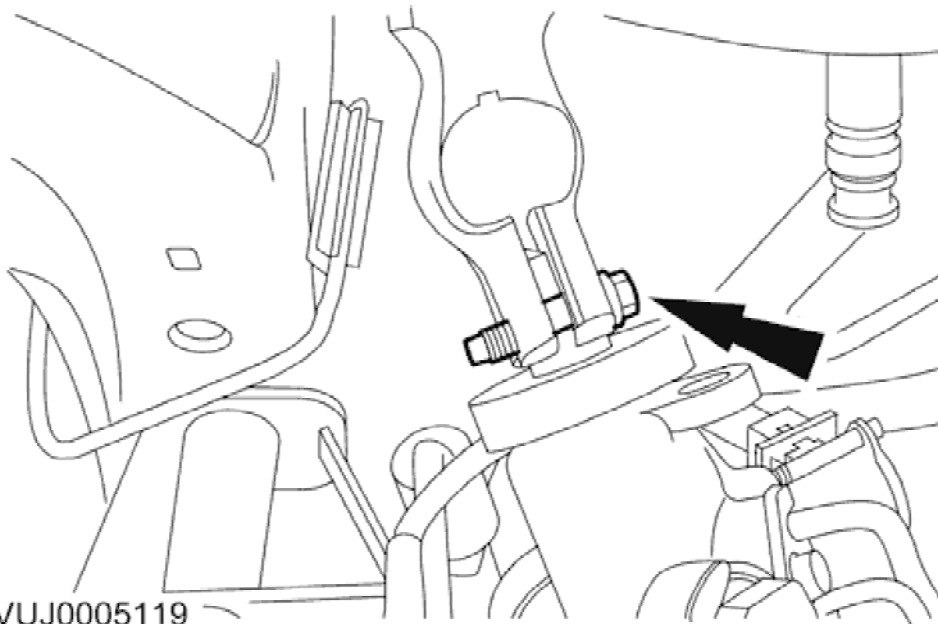
VUJ0005121

17. Detach the steering gear.



VUJ0005142

18. Attach the steering gear.
  - Tighten to 100 Nm.



VUJ0005119

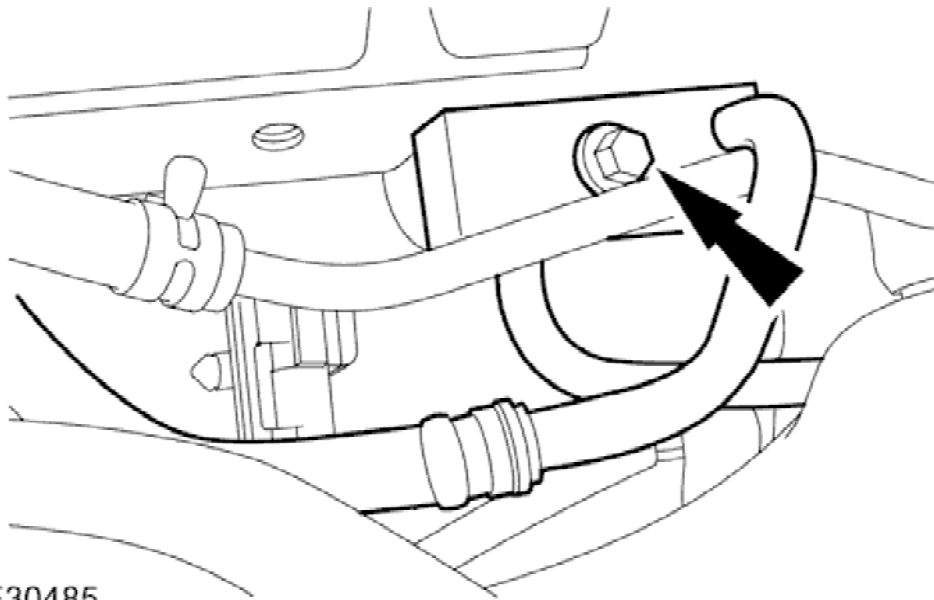
19. Install the steering gear shaft pinch bolt.
  - Tighten to 35 Nm.

20. **NOTE:**

Un-cap the exposed ports.

Install new A/C compressor O-ring seals.

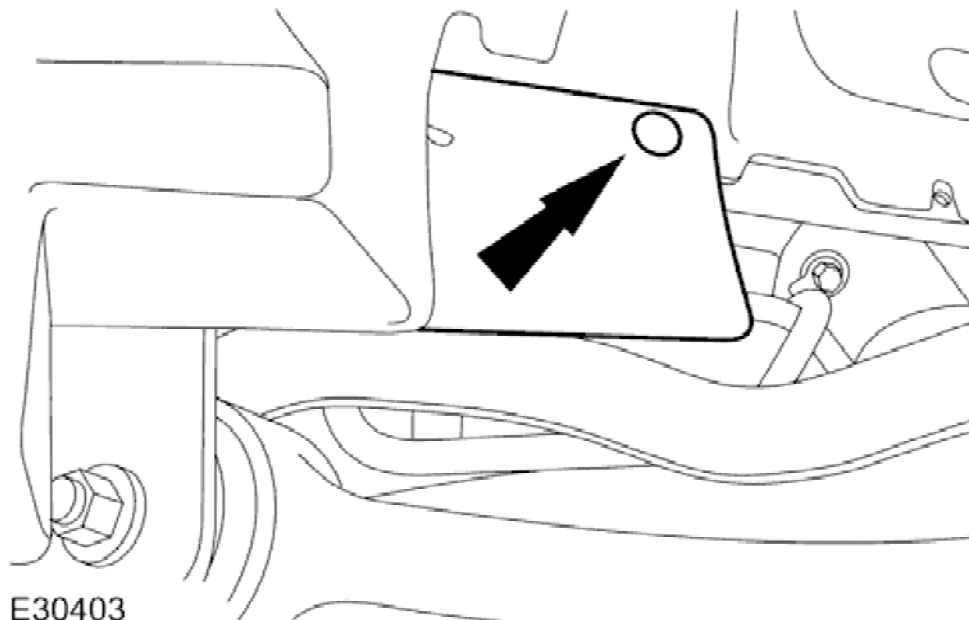
- Lubricate the new O-rings with A/C refrigerant oil.



E30485

21. Connect the A/C compressor supply and return lines.
  - Tighten to 20 Nm.

22. Clean off any oil residue that may contain A/C system fluorescent dye.



E30403

23. Reposition the drive belt splash shield.
  - Install the drive belt splash shield retaining clip.

24. Install the left-hand front wheel and tire assembly. <<204-04>>

25. Install the air cleaner outlet pipe. <<303-12A>><<303-12B>>

## 2004 S-TYPE - Air Conditioning - 412-03

### All vehicles

26. Carry out the A/C system evacuation and charging procedure. <<412-00>>

27. Carry out the A/C system fluorescent dye leak detection procedure. <<412-00>>