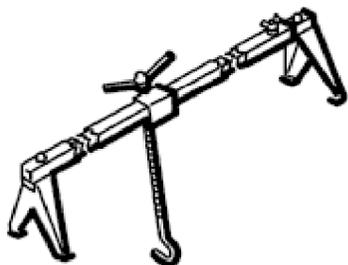


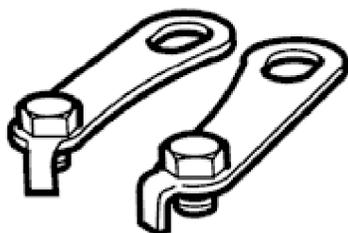
Transmission - Removal 44.20.01

Special Service tools



E36400

Engine support
303-021

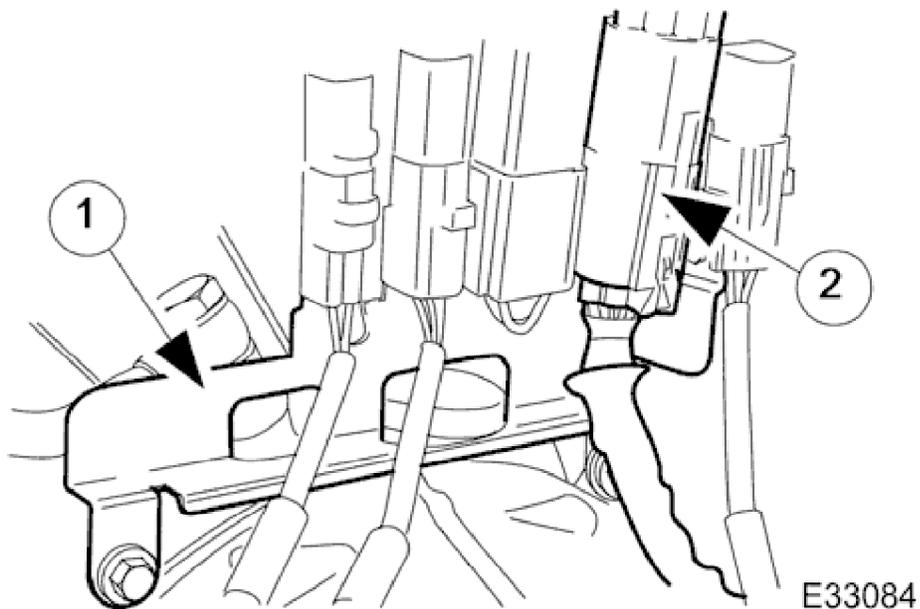


E36403

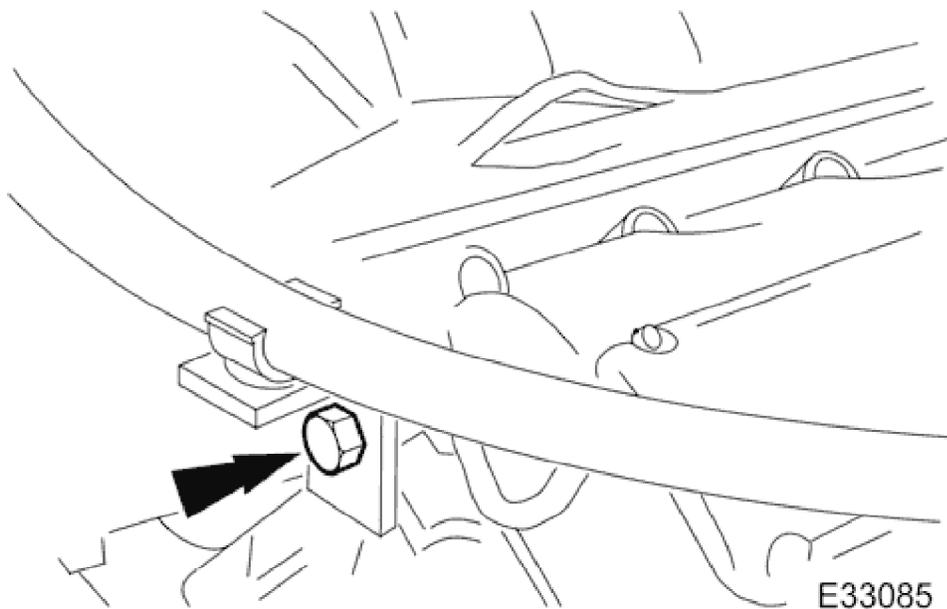
Engine lifting brackets
303-536

Removal

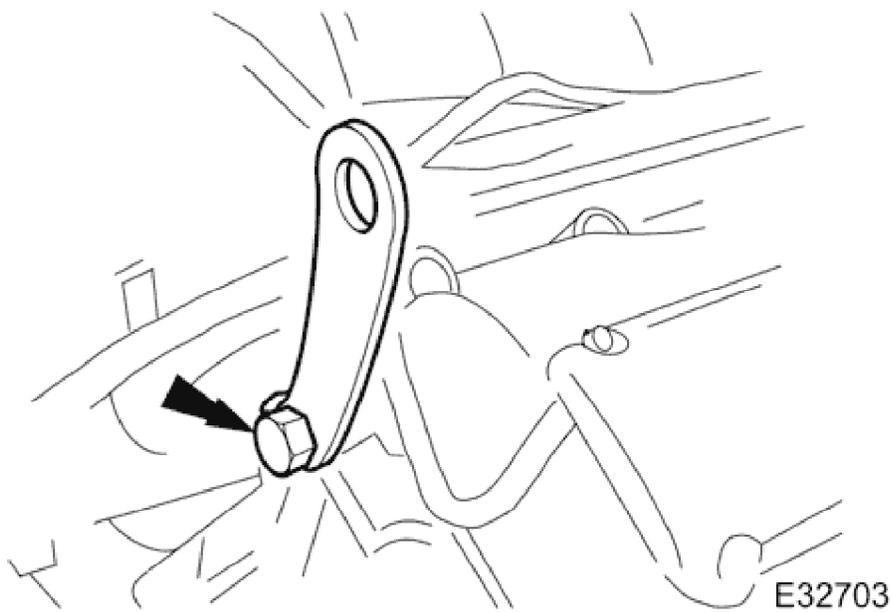
1. Select N gear position.
2. Disconnect the battery ground lead.
3. Remove the engine covers. Refer to Operation 12.30.06.
4. Remove the air intake tube, MAFM and air cleaner cover assembly. Refer to Operation 19.10.30.



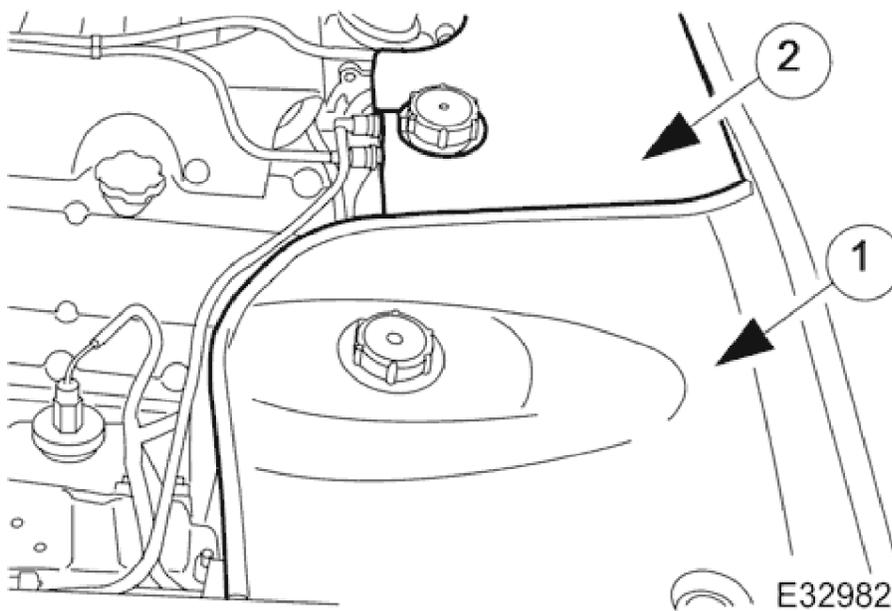
5. Disconnect the transmission link lead connector.
- 1. Release the connector from its mounting bracket.
 - 2. Disconnect the multiplug.



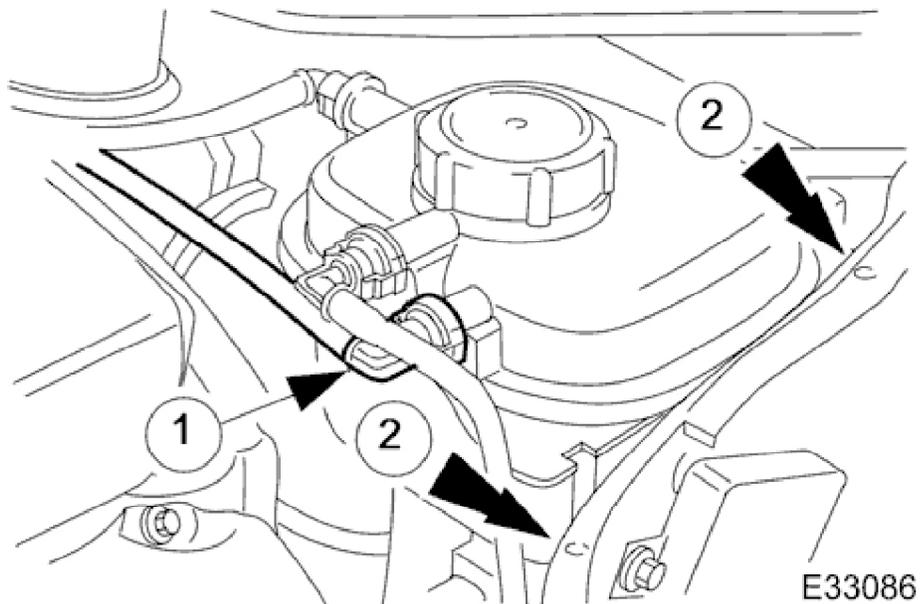
6. Remove the EMS harness mounting bracket.
- Release the bolt, bracket to cylinder head.



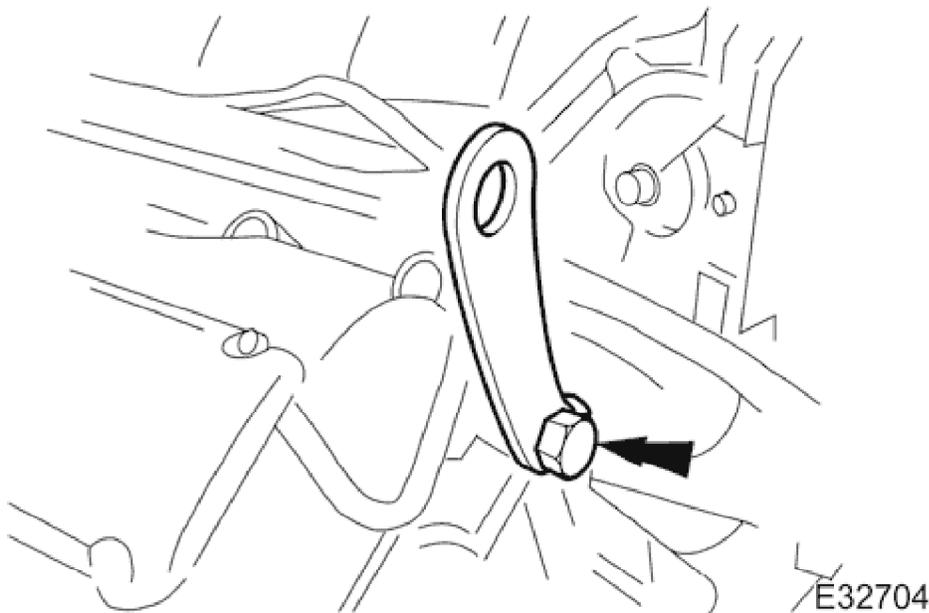
7. Fit engine lifting bracket 307 - 536 at the rear RH.



8. Remove the centre trim panel from the engine compartment.
1. Remove the left hand side enclosure panel.
2. Remove the centre trim panel.

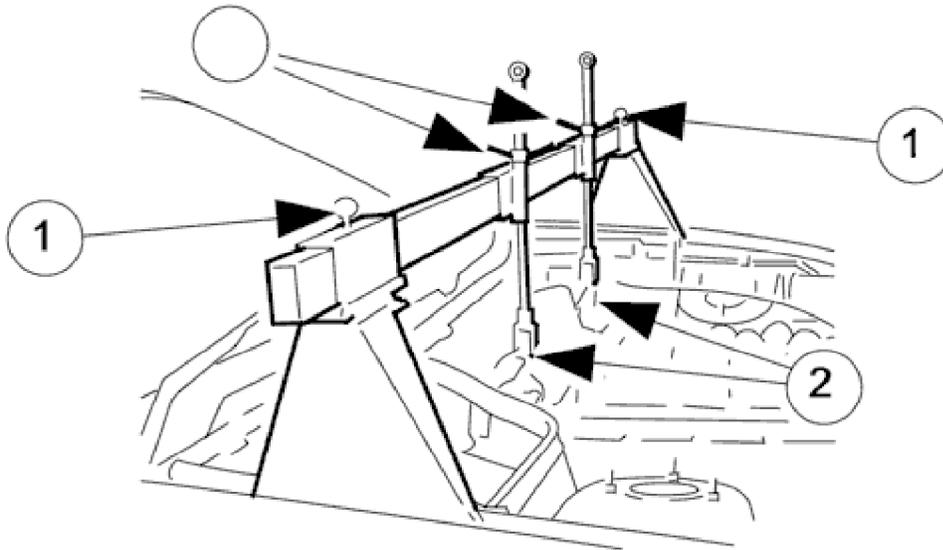


- 9. Move the coolant header tank for access.
 - 1. Disconnect the bleed pipe, header tank to radiator .
 - 2. Remove the header tank fixings.



- 10. Fit engine lifting bracket 307 - 536 at the rear LH.

1998 XJ RANGE - Automatic Transmission/Transaxle - Vehicles With: Supercharger - 307-01



E32702

11. Support the engine using 307 - 021.
 1. Adjust and locate the side support brackets to fit into the LH and RH body channels and tighten the beam fixings.
 2. Engage the support hooks into the engine rear lifting brackets.
 3. Tighten the support hook adjusters to take the weight of the engine.

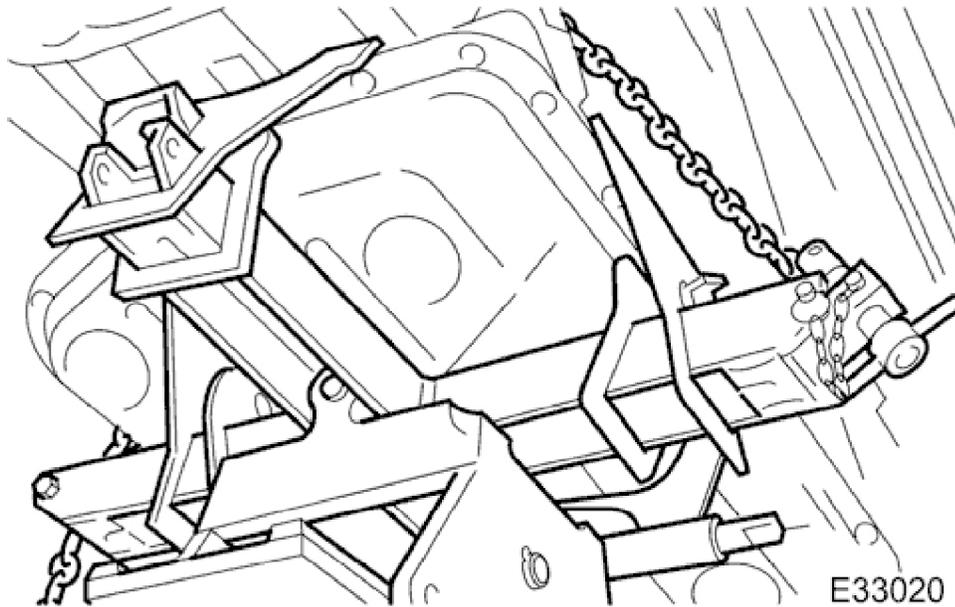
12. Raise the vehicle for access.

13. Remove the LH downpipe catalytic converter. Refer to Operation 17.50.09.

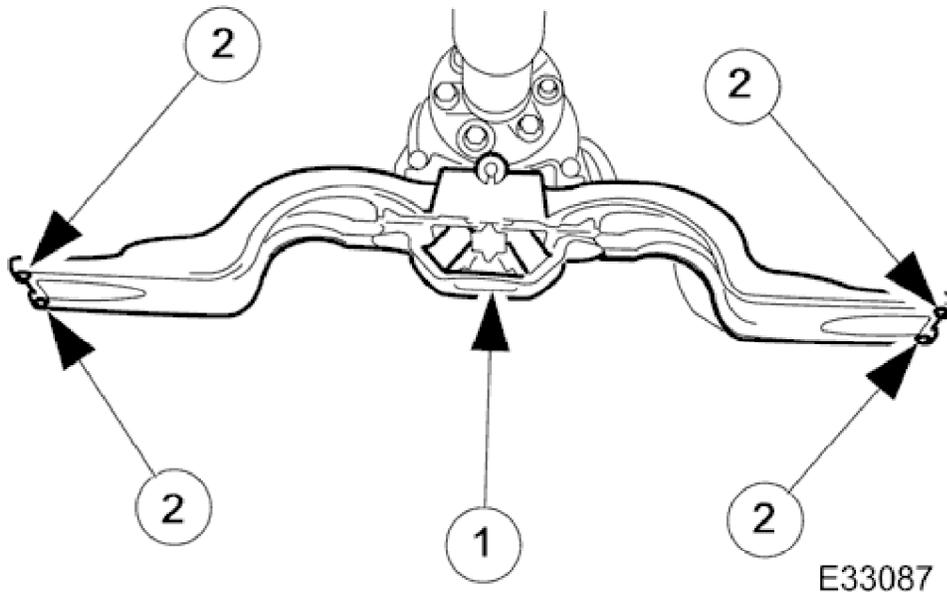
14. Remove the front muffler. Refer to Operation <<30.10.18>>.

15. Remove the RH downpipe catalytic converter. Refer to Operation 17.50.09 and 17.50.10.

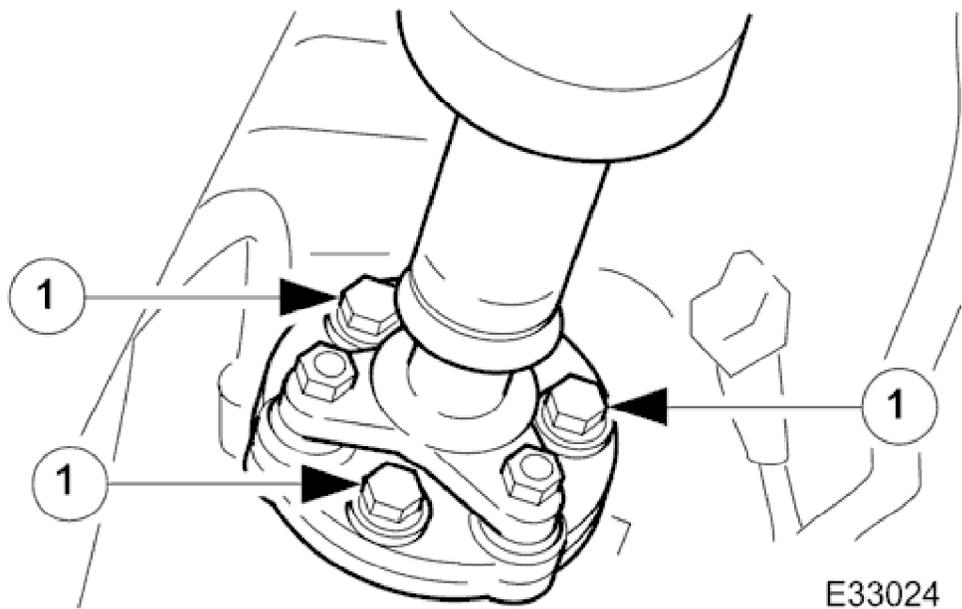
16. Drain the transmission fluid. Refer to Operation <<44.24.02>>.



17. Locate an Epco V-100, or similar lift, under the transmission unit.
- Adjust the angle of the lift to suit the transmission.
 - Secure the side clamps.
 - Pass the safety chain over the transmission unit and tighten the clamp to secure the assembly.



18. Remove the rear engine mounting bracket.
1. Remove the centre bolt from the engine/transmission mounting.
 2. Remove the four bolts which secure the mounting bracket to the body.



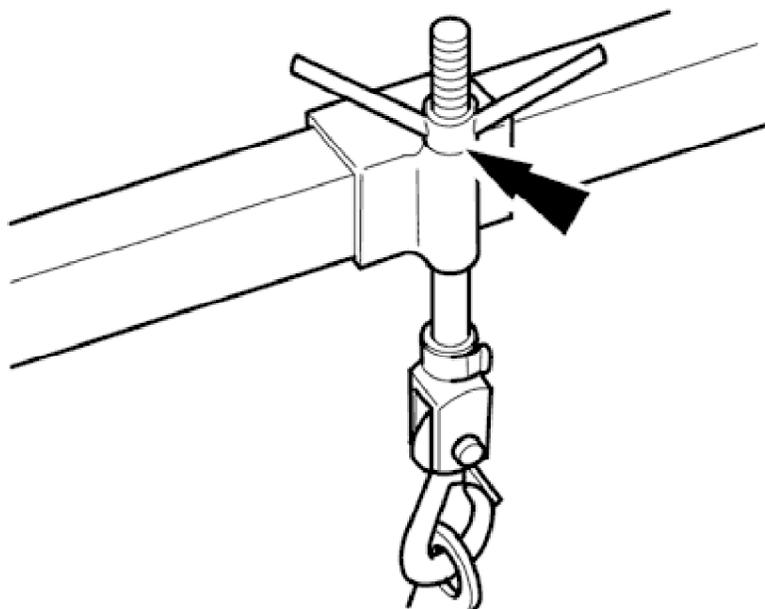
19. Detach the driveshaft (prop-shaft) from the transmission drive flange.
- If the transmission is to be refitted, mark the position of the coupling relative to the drive flange.



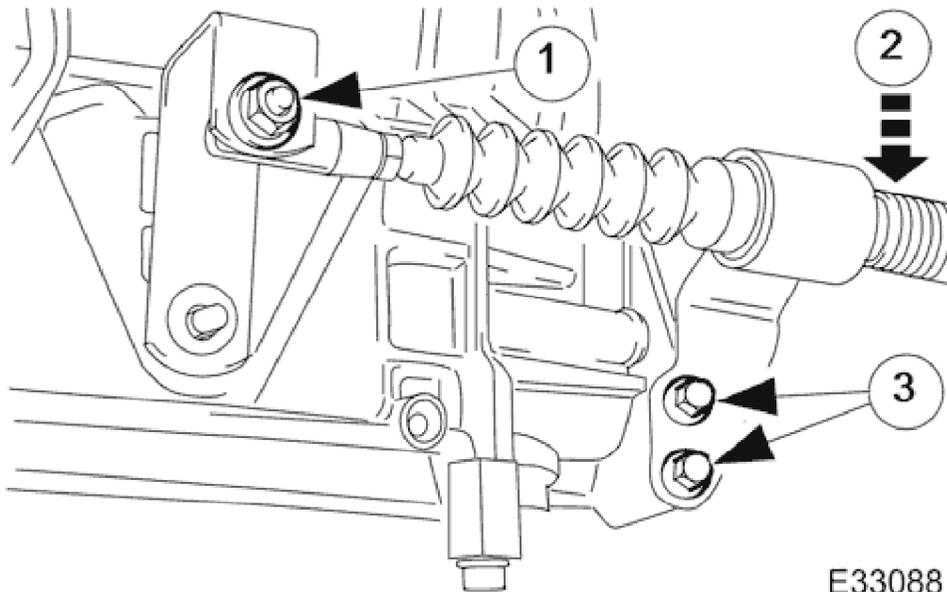
CAUTION:

Under no circumstances remove the driveshaft to flexible coupling fixings.

1. Remove the transmission drive flange to flexible coupling fixings.

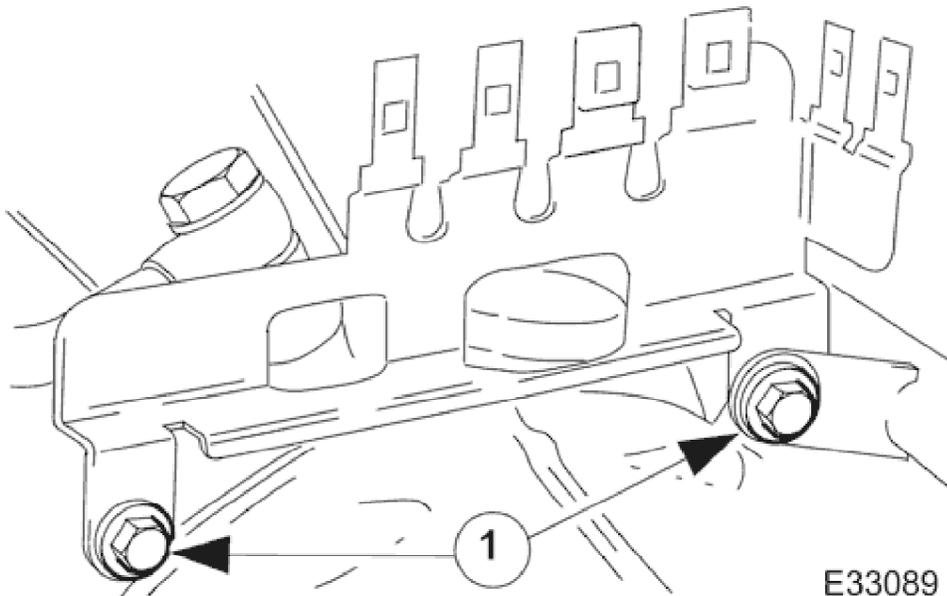


20. Lower the transmission unit.



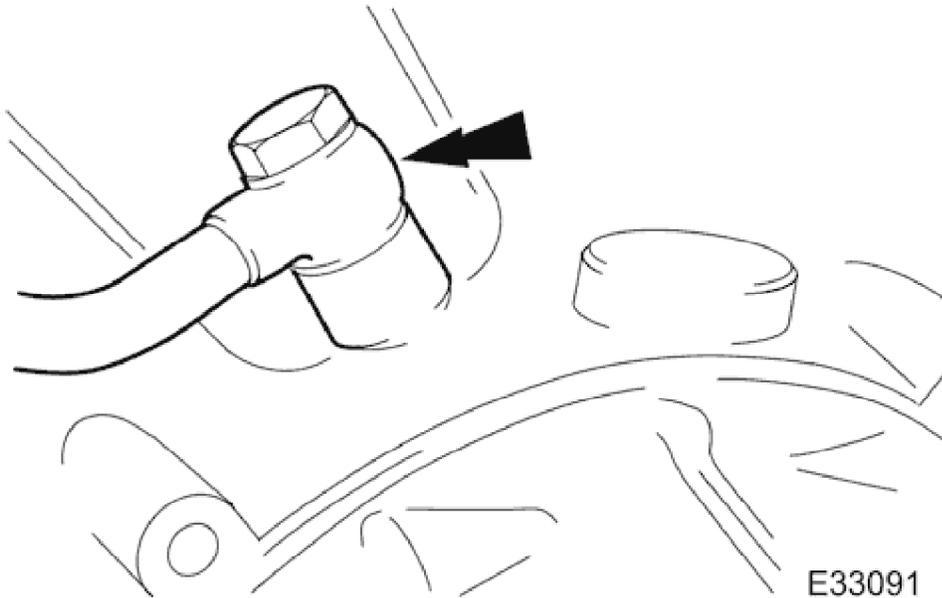
E33088

21. Detach the gear selector cable from the transmission unit.
1. Remove the selector cable ball pin to selector lever nut.
 2. Lower the transmission lift for access.
 3. Remove the selector cable to transmission casing bolts.



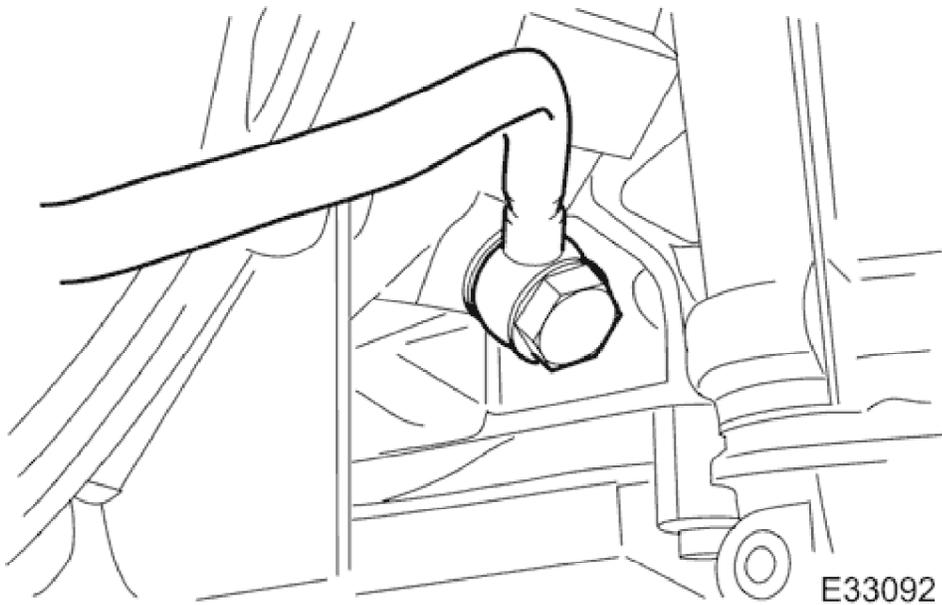
E33089

22. Release the transmission harness multiplug bracket.
1. Remove the two bolts which secure the bracket to the transmission case, noting that one bolt also retains the dipstick tube.



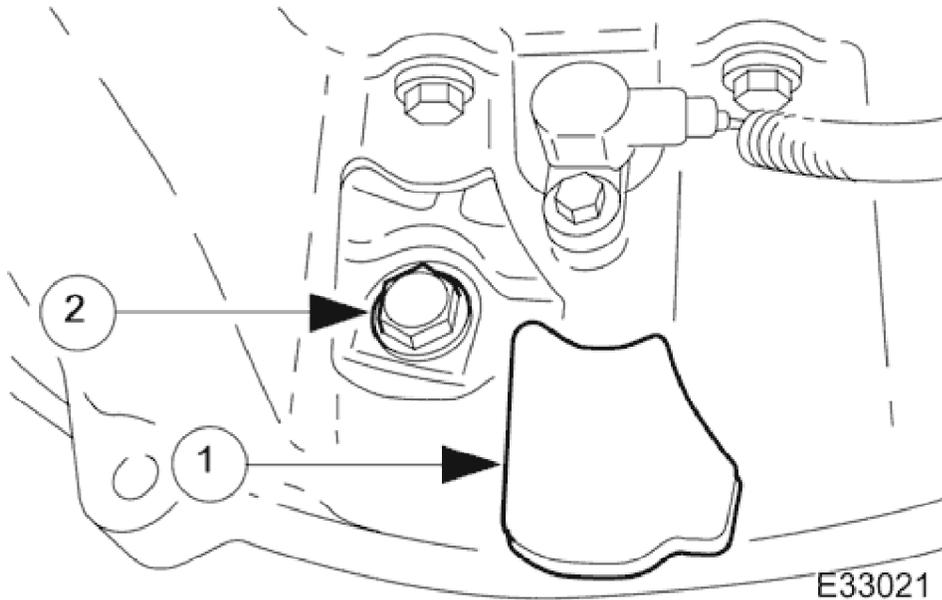
23. Disconnect the fluid cooler upper pipe.

- Remove the bolt which secures the pipe to the cylinder block and remove the bracket.
- Remove the 'banjo' bolt.
- Discard the Dowty seals.
- Fit blanking plugs to the pipe and transmission.



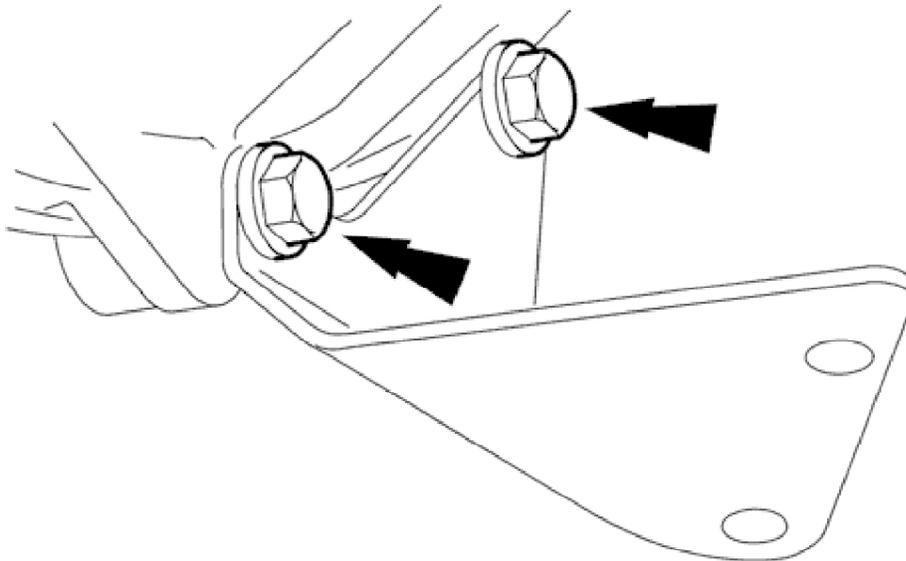
24. Disconnect the fluid cooler lower pipe.

- Remove the 'banjo' bolt.
- Discard the Dowty seals.
- Fit blanking plugs to the pipe and transmission.



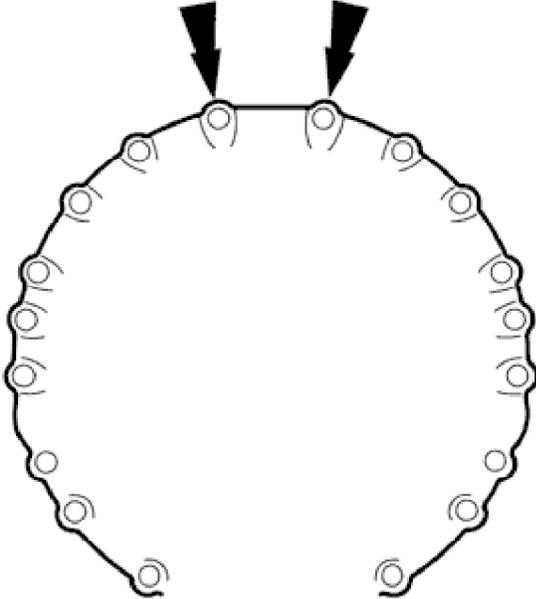
E33021

25. Remove the three bolts which secure the torque converter to the drive plate.
- 1. Remove the access cover.
 - 2. Rotate the crankshaft for access to each bolt and hold to prevent movement. Remove each bolt.



E33093

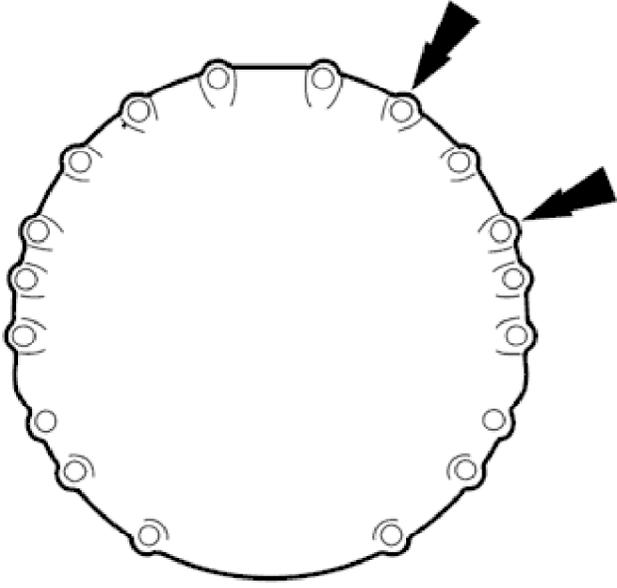
26. Remove the LH and RH catalyst mounting brackets from the transmission case.
- Remove the two bolts from each side.
27. On the RH side, clear the cooler pipe for access.



E33094

28. **NOTE:**
Viewed from the rear of the vehicle.

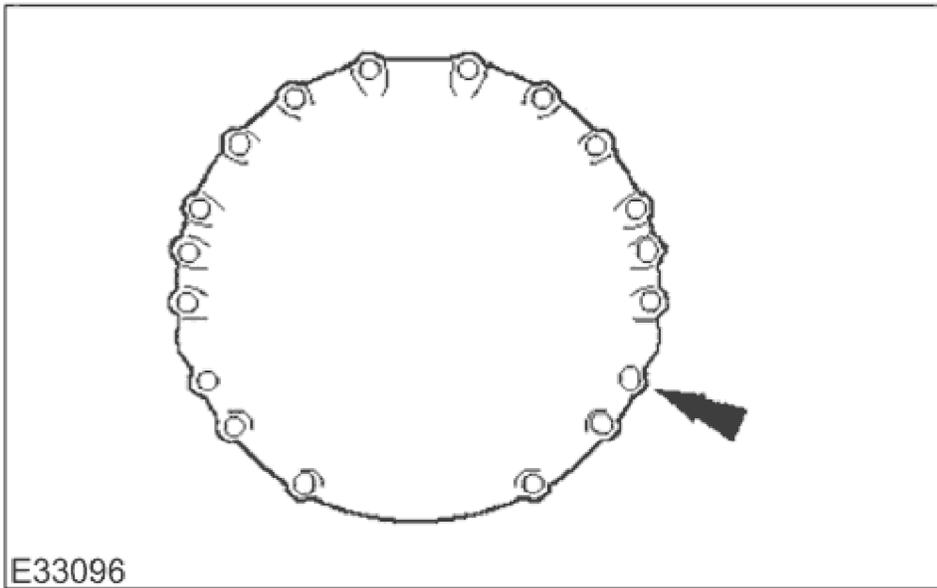
Remove the two upper bolts, as indicated, transmission to engine.



E33095

29. **NOTE:**
Viewed from the rear of the vehicle.

Remove the two bolts which secure the starter motor power cable clip.

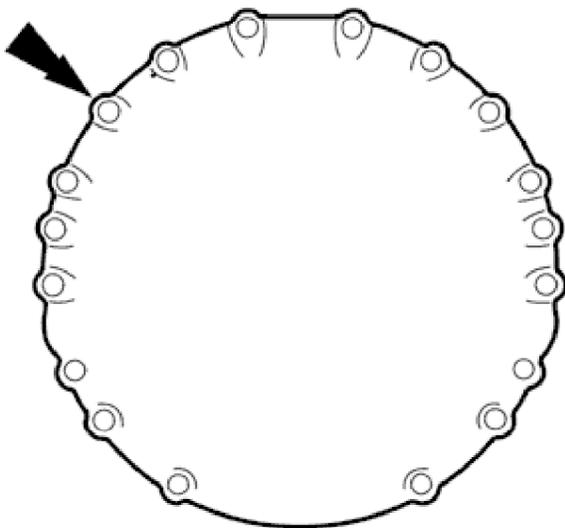


E33096

30. **NOTE:**
Viewed from the rear of the vehicle.

Remove the ground lead bolt.

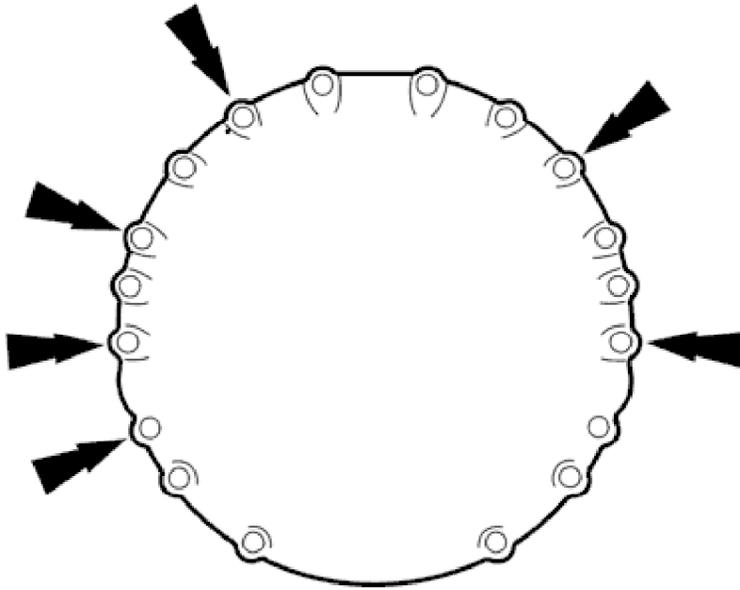
31. On the LH side.



E33097

32. **NOTE:**
Viewed from the rear of the vehicle.

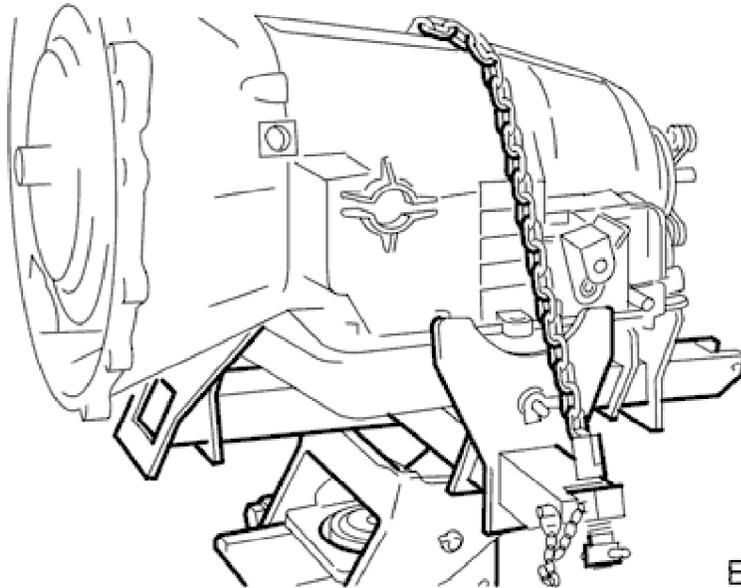
Remove the bolt which secures the cooler upper pipe clip to the transmission case.



E33098

33. **NOTE:**
Viewed from the rear of the vehicle.

Remove the six remaining bolts from the transmission case to cylinder block.



E33099

34. **NOTE:**
Do not allow the converter to detach from the transmission.

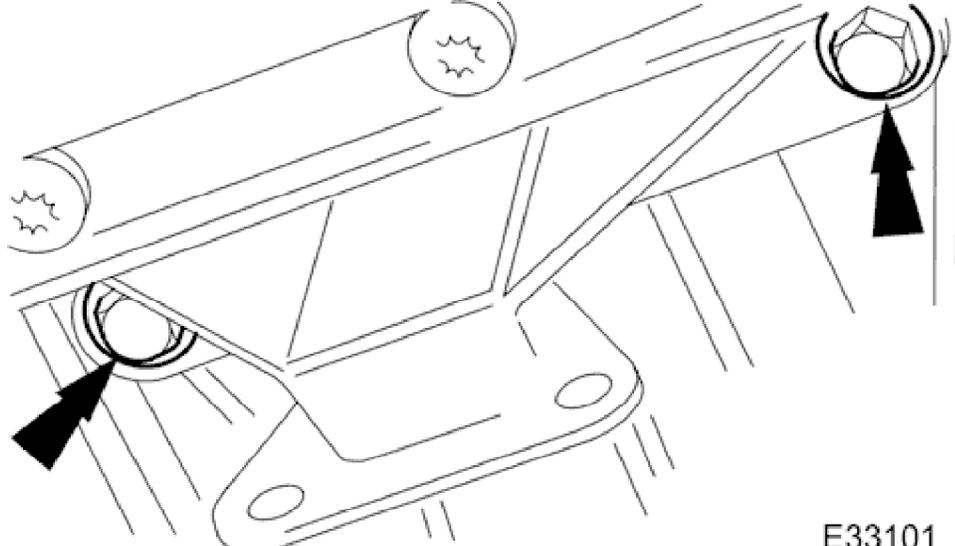
Remove the transmission / converter assembly from the vehicle.

- Lower the lift and remove the transmission, ensuring that the torque converter spigot disengages cleanly.



E33100

35. Remove the side clamps and chain for access.

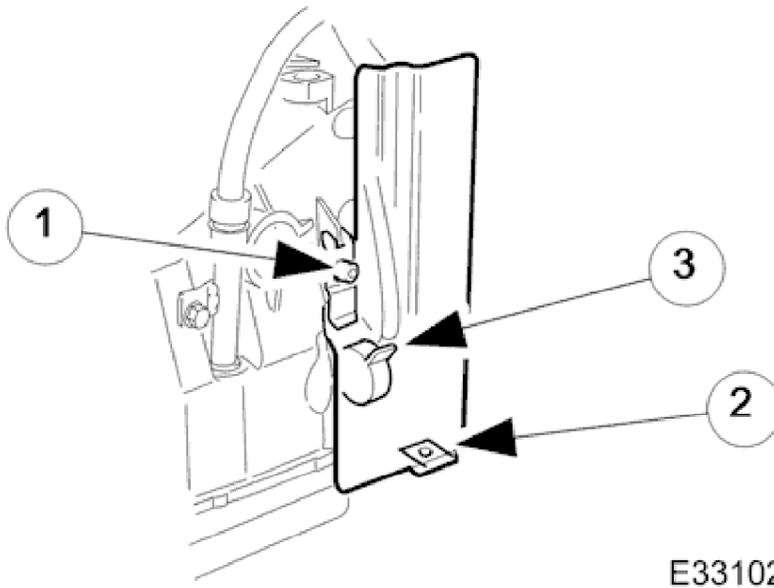


E33101

36. Remove the front muffler mounting bracket.
• Remove the two bolts which secure the bracket to the transmission case.



37. Remove the transmission dipstick tube.
1. Remove the fixing which secures the tube to the case.
- Discard the filler tube 'O' ring.
 - 2. Fit a blanking plug to the transmission casing orifice.



38. Remove the harness link lead.
1. If required, slacken the harness heatshield spring clamp bolt.
 2. Remove the heatshield lower bolt.
 3. Release the harness multi-lock lever, disconnect and remove the harness.

39. If appropriate, fit retaining straps to the converter / transmission assembly.