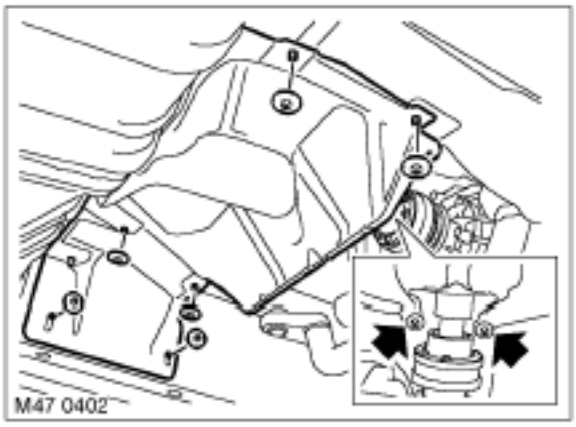
Differential assembly

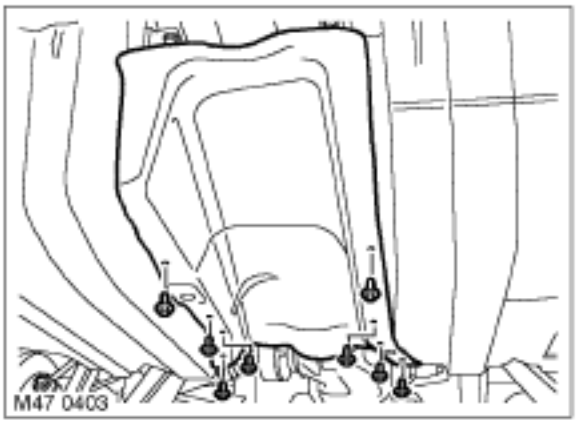
51.15.01

Remove

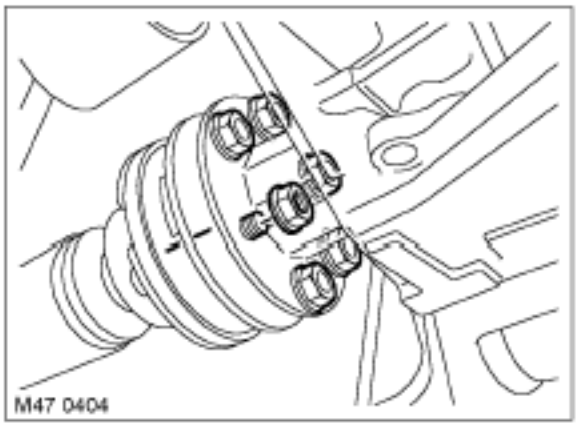
1. Position vehicle on lift.
2. Remove exhaust system.
   MANIFOLD AND EXHAUST SYSTEM - Td6, REPAIR, Exhaust system and mountings.
   MANIFOLD AND EXHAUST SYSTEM - V8, REPAIRS, Exhaust system & mountings.


M47 0402

3. Remove 8 nuts securing centre heat shield and remove shield.


M47 0403

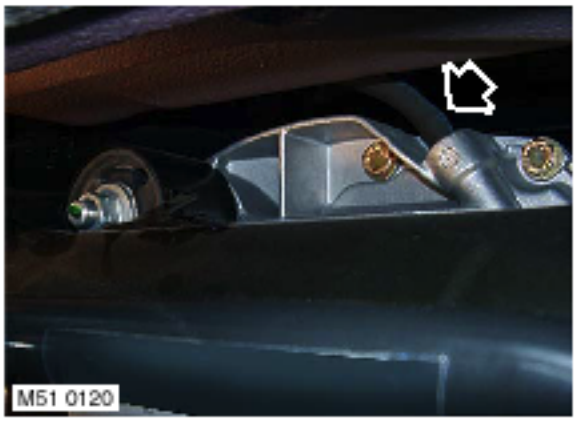
4. Remove 8 hexagonal headed screws securing fuel tank heat shield and remove shield.


M47 0404

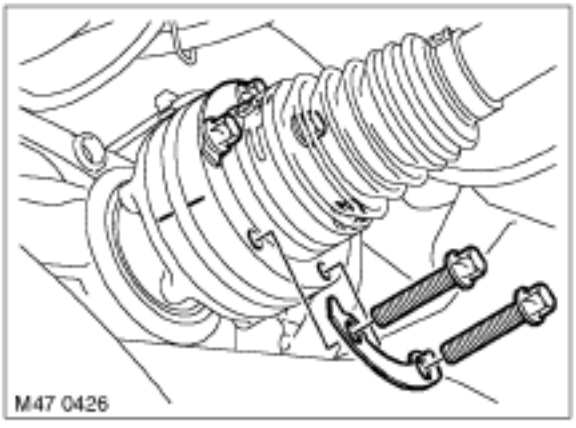
5. Reference mark propeller shaft and differential to aid reassembly.
6. Remove 6 nuts securing propeller shaft to differential flange.


M47 0406

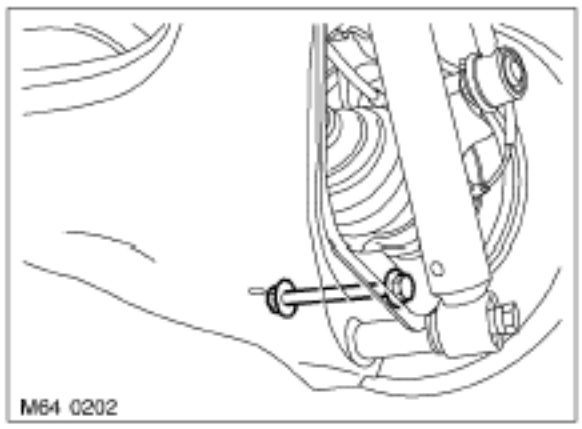
7. Remove 2 nuts securing propeller shaft support bearing, lower the propeller shaft, release flange from differential then temporarily support the bearing and secure with nuts.
8. Raise rear of vehicle and support under body.
   WARNING: Do not work on or under a vehicle supported only by a jack. Always support the vehicle on safety stands.
9. Remove road wheels.



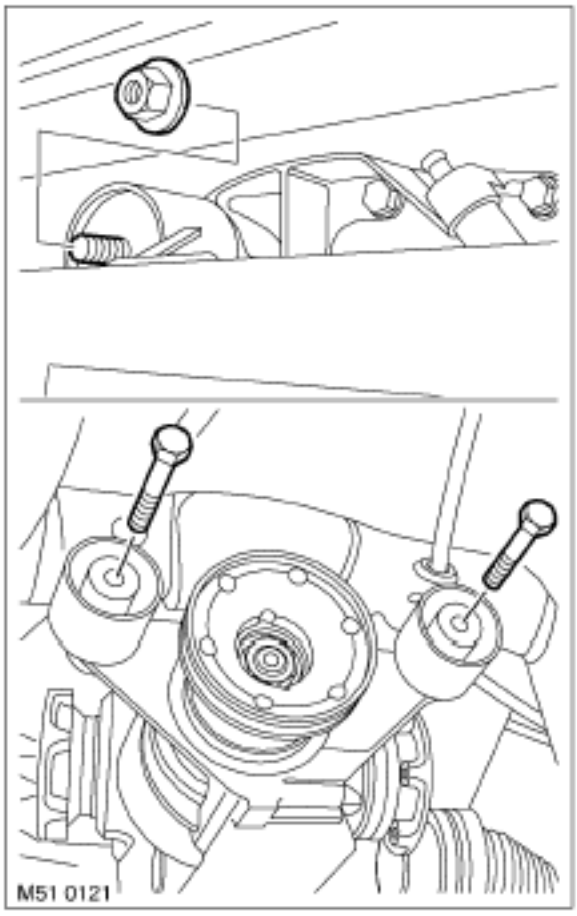
10. Disconnect breather hose from differential.
11. Drain oil from differential.
    ☞ **FINAL DRIVE, ADJUSTMENTS, Rear differential - drain and refill.**



12. Reference mark drive shaft and differential flanges to aid reassembly.
13. Remove 6 bolts securing drive shaft to differential drive flange and collect 3 bolt plates. Discard bolts.
14. Position jack to support the lower arm.



15. Remove nut and bolt securing lower arm to hub.
16. Remove support jack
17. Release the lower arm from hub and disconnect drive shaft from differential.
18. Repeat procedure for other side.
19. Support weight of differential assembly on a jack.



20. Remove and discard 2 bolts and 1 nut and bolt securing differential to the subframe. Remove differential assembly.

Refit

1. Position jack and raise differential into position.
2. Fit new bolts securing differential to subframe and tighten front 2 bolts to 100 Nm (74 lbf.ft) and new rear nut and bolt to 165 Nm (121 lbf.ft).
3. Clean end of drive shaft and location in differential.
4. Locate drive shaft to differential.
5. Clean lower arm and hub mating faces.
6. Align hub to lower arm, fit and lightly tighten nut and bolt.
7. Clean bolt plates, position plates, fit new bolts securing drive shaft to differential drive flange and tighten to 40 Nm (30 lbf.ft) plus a further 60°
8. Repeat procedure for other side.
9. Connect breather hose to differential.
10. Fit road wheel and tighten nuts to 140 Nm (103 lbf.ft).
11. Remove stands and lower vehicle.
12. Tighten bolts securing lower arms to hubs to 250 Nm (184 lbf.ft).
13. Clean differential and propeller shaft flange mating faces.
14. Remove nuts securing support bearing, connect propeller shaft to differential flange and locate support bearing. Fit nuts securing support bearing but do not tighten at this stage.
15. Fit nuts securing propeller shaft to differential flange and tighten to 70 Nm (52 lbf.ft).
16. Tighten nuts securing propeller shaft support bearing to 21 Nm (15 lbf.ft).
17. Fit fuel tank heat shield and secure with screws.
18. Fit centre heat shield and secure with nuts.
19. Fill differential to correct level with oil.
    ☞ **FINAL DRIVE, ADJUSTMENTS, Rear differential - drain and refill.**
20. Fit exhaust system.
    ☞ **MANIFOLD AND EXHAUST SYSTEM - Td6, REPAIR, Exhaust system and mountings.**
    ☞ **MANIFOLD AND EXHAUST SYSTEM - V8, REPAIRS, Exhaust system & mountings.**