

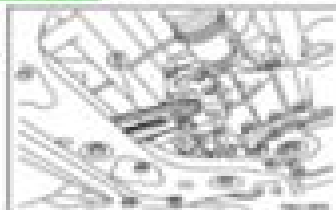
# Nissan Micra K12 2002-2011 Workshop Manual

## ENGINE ASSEMBLY

16. Remove brake caliper from steering knuckle. Temporarily fix on vehicle side with rope or so to avoid putting stress on brake hose. Refer to [25.25. FRONT DISC BRAKE](#).
17. Remove RH and LH drive shafts. Refer to [25.15. FRONT DRIVE SHAFT](#).
18. Remove rear torque rod (1).

### NOTE:

Figure shows A/T models. The shape of the bracket on the transverse side is different for M/T models.



### Removal

19. Install engine slinger to cylinder head from left side (1) and rear right side (2) and support the engine position with a hoist.

### NOTE:

Front side and rear side engine slinger are common parts.

Fig. 16.0 - 23.0 Nm (1.7 - 2.3 kg-m, 13 - 17 in)

- For front side, remove harness bracket under fuel tube protector and mount by using harness bracket mounting hole. Refer to [25.25. FUEL INJECTOR AND FUEL TUBE](#).



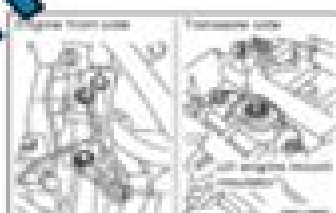
20. Lift to a height sufficient to allow easy work, support the bottom of the engine with either a manual lift table caddy (commercial service tool) or two suitable jacks, and adjust the tension of the hoist.

### CAUTION:

- Put a piece of wood or something similar as the supporting surface, secure a completely stable condition.
- Make sure the hanging chain or hanging hook does not come into contact with the A/C piping or the vehicle (cool top). Also make sure they do not get in the way of working while the work is being done.



21. Remove the RH engine mount bracket (upper) (1) and (2).
22. Remove the LH engine mount (1) and (2).



23. Carefully lower the lift table caddy or suitable jack, (or carefully raise the lift) and remove the engine and harness assembly from the vehicle.

- If you are going to lower the engine side, do this in tandem with the hoist.

### CAUTION:

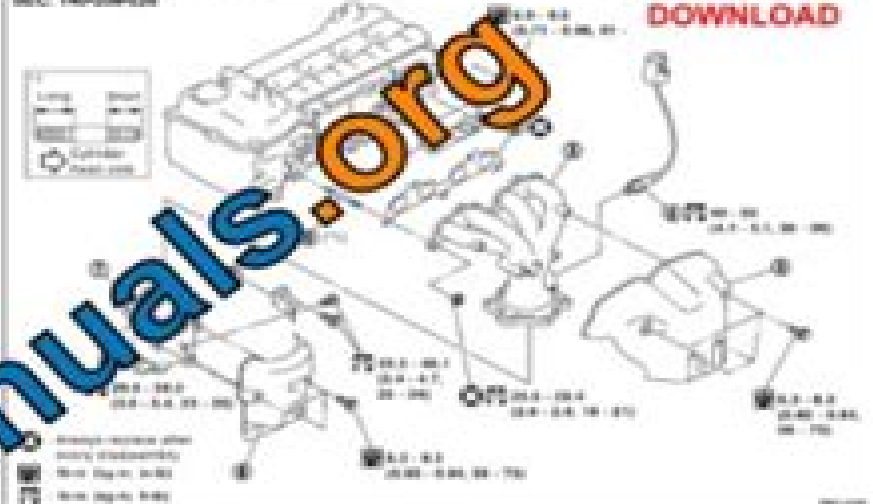
- This should be done making sure it does not come in contact with the vehicle.
- Check that all connection points have been disconnected.

EM-47

## EXHAUST MANIFOLD AND THREE WAY CATALYST

### EXHAUST MANIFOLD AND THREE WAY CATALYST Removal and Installation

SEC. 140-050209



### REMOVAL

1. Remove air duct. Refer to [25.14. AIR CLEANER AND AIR DUCT](#).
2. Remove RH front fender protector.
3. Remove alternator and A/C compressor belt. Refer to [25.12. DRIVE BELT](#).
4. Remove A/C compressor with piping connected, move A/C compressor to body side and secure it onto body with a rope.
5. Remove exhaust front tube connection at front. Refer to [25.1. EXHAUST SYSTEM](#).
6. Remove RH engine mount stay and alternator bracket.
7. Loosen the lower bolt and move the alternator to the front of the vehicle.

8. As needed, remove the heated oxygen sensor 1 in the following order.

NOTE:

Steps 2 to 7 above are not needed for heated oxygen sensor 1 removal.

9. Separate the harness connector and remove it from bracket.
10. Using heated oxygen sensor wrench (special service tool), remove heated oxygen sensor 1.

### CAUTION:

- Handle it carefully, avoid any chance of impact caused by dropping.



EM-50

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**D Siedentop**

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