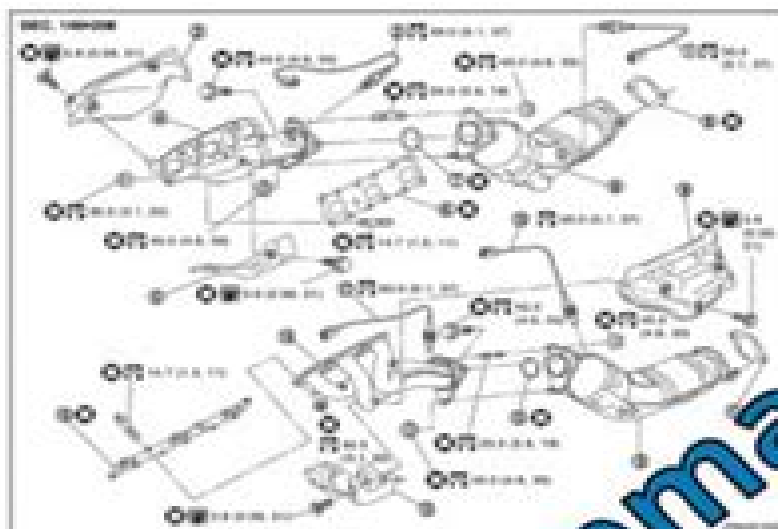


# Nissan Skyline 2008-2014 Workshop Manual

## EXHAUST MANIFOLD

### Exploded View



- |                                     |                                      |                                    |
|-------------------------------------|--------------------------------------|------------------------------------|
| 1. Heated oxygen sensor 2 (bank 1)  | 2. Air fuel ratio sensor 1 (bank 1)  | 18. Exhaust manifold cover (upper) |
| 4. Exhaust manifold (bank 1)        | 3. Exhaust manifold cover (lower)    |                                    |
| 7. Ring gasket                      | 5. Three way catalyst (bank 1)       |                                    |
| 10. Heated oxygen sensor 2 (bank 2) | 11. Gasket                           | 16. Air filter holder (bank 2)     |
| 13. Ring gasket                     | 14. Exhaust manifold (bank 2)        | 17. Exhaust manifold cover (lower) |
| 15. Gasket                          | 17. Air fuel ratio sensor 2 (bank 2) | 18. Exhaust manifold cover (upper) |

Refer to [ECU-2, General](#) for symbols in the figure.

### Removal and Installation

#### REMOVAL

##### WARNING:

Perform the work when the exhaust and cooling system have completely cooled down.

##### NOTE:

When removing bank 1 exhaust, callouts 1, 4 and 7 are unnecessary.

1. Drain engine coolant. Refer to [ECU-2, General](#).
2. Remove engine air filter. Refer to [ECU-2, General](#).
3. Remove gasket and air duct (RH and LH). Refer to [ECU-2, General](#).
4. Remove air filter holder and water hose. Refer to [ECU-2, General](#).
5. Remove engine air filter with power tool.
6. Remove exhaust front tube and three way catalyst (bank 1 and bank 2). Refer to [ECU-2, General](#).
7. Disconnect steering lower joint at power steering gear assembly side, and release steering lower shaft.

#### Remove camshaft position sensor (PHASE)

- A. Keep free from magnetic materials.

##### CAUTION:

- Handle carefully to avoid dropping and shocks.
- Never disassemble.
- Never allow metal powder to adhere to the part of sensor tip.
- Never place sensors in a location where they are exposed to magnetism.

#### Remove intake valve timing control solenoid gasket as follows:

Disconnect intake valve timing control solenoid and valve harness connector.

Loosen mounting nuts with power tool as shown in the figure.

- A. Step 1
- B. Step 2
- C. Step 3

##### CAUTION:

When the solenoid is connected with camshaft sprocket (DCT) center hole on inside. Pull straight out so that it does not tilt and the part is disengaged.

When the solenoid is engaged with camshaft sprocket (DCT) center hole on inside. Pull straight out so that it does not tilt and the part is disengaged.

#### Remove intake valve timing control solenoid valve, if necessary.

##### CAUTION:

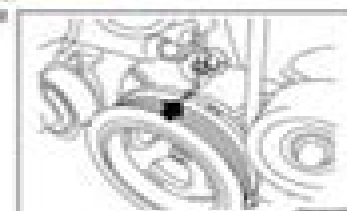
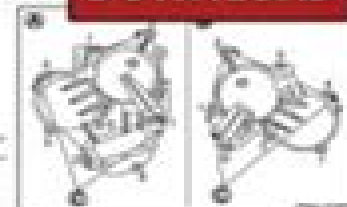
Intake valve timing control solenoid valve is non-serviceable. Never remove it unless required.

Remove rocker covers (bank 1 and bank 2). Refer to [ECU-2, General](#).

Obtain No. 1 cylinder at TDC of its compression stroke as follows.

Rotate crankshaft pulley clockwise to align timing mark (grooved line without color) with timing indicator.

- Timing mark (grooved line without color)



Check that exhaust cam rises on No. 1 cylinder (engine front side of bank 1) is located as shown in the figure.

1. Camshaft (DCT) (bank 1)
2. Engine front

- If not, turn crankshaft one revolution (360 degrees) and align as shown in the figure.

#### Remove crankshaft pulley as follows:



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**RS Peters**



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