

# Nissan Pathfinder 2013-2017 Workshop Manual

## FRONT TIMING CHAIN CASE

### REMOVAL AND INSTALLATION -

#### 2. Remove the front timing chain case.

Loosen the front timing chain case bolts in the reverse order shown.



Insert the appropriate size tool into the notch (A) at the top of the front timing chain case as shown.

Pry off the case by moving the suitable tool (B) as shown.

• Cut liquid gasket for removal using Tool

#### CAUTION:

• Do not use a screwdriver or similar tool.

• After removal, handle carefully so it does not bend or warp under a load.



#### 3. Remove O-rings (T) from rear timing chain case.

(A) Size 1 (5m)

(B) Size 2 (5m)

#### CAUTION:

Use new O-rings for installation.



#### 4. Remove the front oil seal from the front timing chain case using a suitable tool.

#### CAUTION:

Do not damage the front cover.



#### 5. Remove all oil liquid gasket from the front timing chain case.

#### CAUTION:

Do not damage the front timing chain case surfaces.



## FRONT TIMING CHAIN CASE

### - REMOVAL AND INSTALLATION -

#### FRONT TIMING CHAIN CASE

#### Exploded View



- |                      |   |  |
|----------------------|---|--|
| 1. Engine assembly   | 2. Front timing chain case oil filter   | 3. Water pump cover                      |
| 4. Crankshaft pulley | 5. Front oil seal   | 6. Front timing chain case               |
| 7. O-ring            | 8. To valve timing control cover (Bolt 1) (Bolt 2) Refer to <a href="#">CG-24, "Valve Timing Control Cover"</a> | 9. Refer to <a href="#">INSTALLATION</a> |

Front

#### Removal and Installation

#### NOTE:

- This section describes the procedure for removal/installation of the front timing chain case in vehicle without removing the oil pan support. Remove the engine prior to following this procedure if the engine is to be removed to facilitate other repairs.
- To remove the rear timing chain case, remove the engine from the vehicle. Refer to [EM-75, "Engine Removal"](#).
- Refer to [EM-66, "Component Views"](#) for component parts location.
- When removing components such as hoses, tubes/fines, etc., cap or plug openings to prevent fluid dripping.

#### REMOVAL

- Remove engine room cover. Refer to [EM-71, "Removal and Installation"](#).
- Remove coil top and coil top lower panel extension. Refer to [CG-24, "Removal and Installation"](#).
- Drain the engine oil. Refer to [LU-10, "Change Oil and Oil Filter"](#).
- Disconnect coolant reservoir hose from the radiator and remove coolant reservoir.
- Remove the radiator. Refer to [CG-15, "Removal and Installation"](#).
- Remove the radiator shroud and cooling fan assembly. Refer to [CG-17, "Removal and Installation"](#).
- Remove battery tray and bracket. Refer to [PG-31, "Removal and Installation"](#).

# Pathfinder Engine Manual

**Lingsheng Yao**



## **Pathfinder Engine Manual:**

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Harold Haynes,1992      Minivans from Japan United States International Trade Commission,1991      **Subject Guide to**  
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