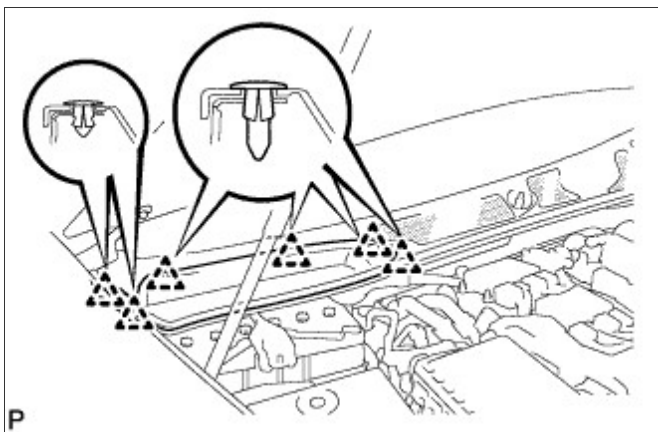


1UR-FSE ENGINE CONTROL SYSTEM > AIR FUEL RATIO SENSOR (for 2WD) > REMOVAL

1. REMOVE COWL TOP VENTILATOR LOUVER RH

- a. Remove the 6 clips and cowl top ventilator louver RH.



2. DISCONNECT CABLE FROM NEGATIVE BATTERY TERMINAL

CAUTION:

Wait at least 90 seconds after disconnecting the cable from the negative (-) battery terminal to prevent airbag and seat belt pretensioner activation.

NOTICE:

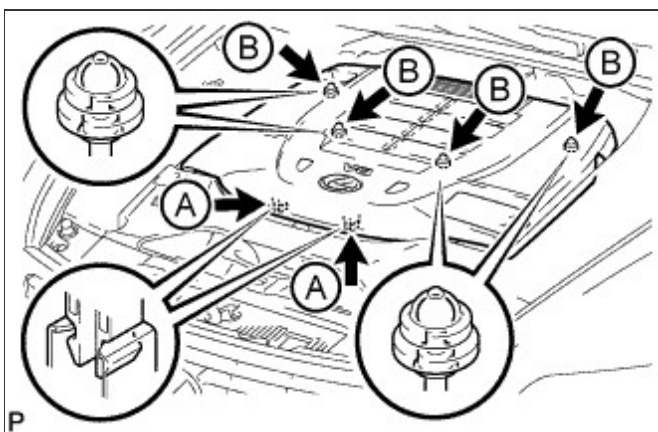
After the engine switch is turned off, the HDD navigation system requires approximately 6 minutes to record various types of memory and settings. As a result, after turning the engine switch off, wait 6 minutes or more before disconnecting the cable from the negative (-) battery terminal.

3. REMOVE V-BANK COVER SUB-ASSEMBLY

- a. Using both hands, lift the rear side of the cover upwards to detach the 4 clips labeled B. Then slide the cover toward the front of the vehicle to detach the 2 clips labeled A and remove the V-bank cover.

NOTICE:

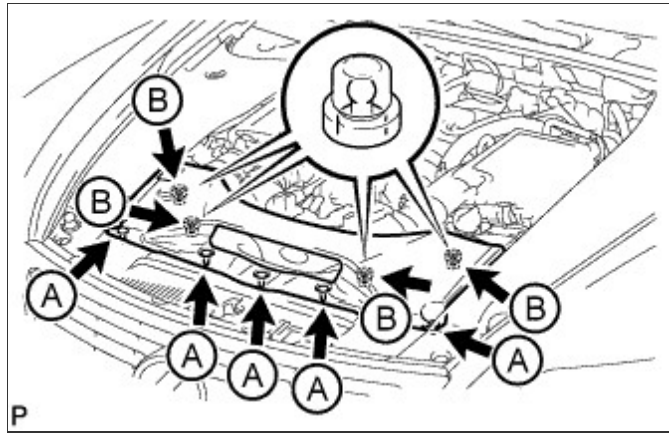
- The V-bank cover may be damaged if its front and rear are lifted at the same time.
- When detaching the clips labeled A, be sure to slide the cover toward the front of the vehicle.



4. REMOVE AIR CLEANER INLET COVER

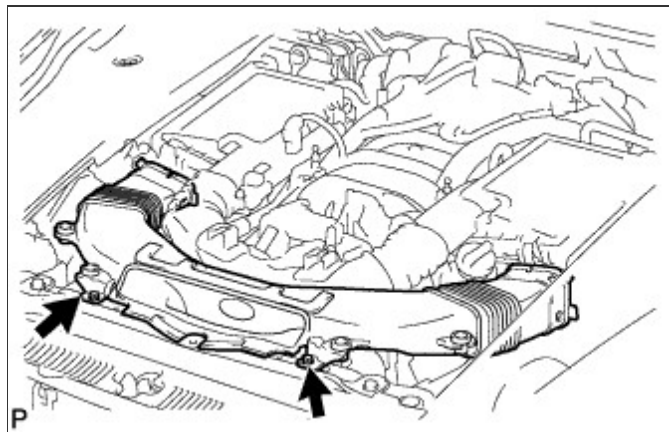
- a. Remove the 5 clips A.

- b.** Lift up the air cleaner inlet cover to detach the 4 clips B, and remove the air cleaner inlet cover.

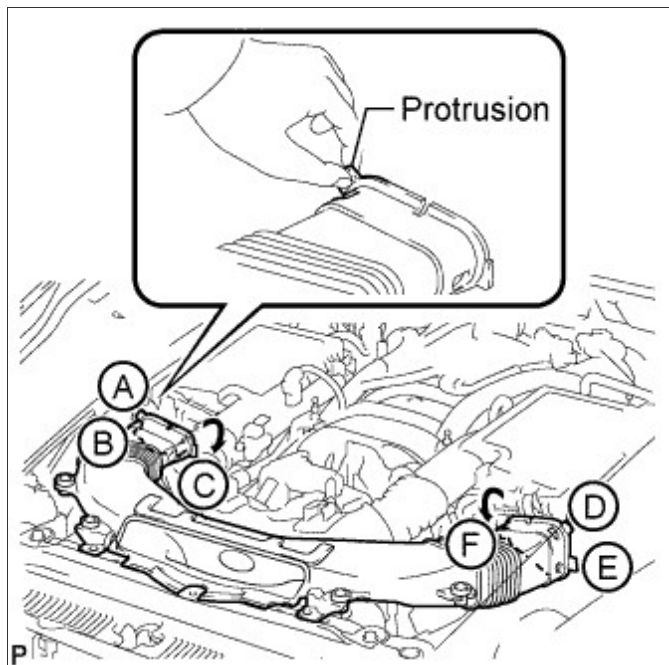


5. REMOVE NO. 1 AIR CLEANER INLET

- a.** Remove the 2 bolts.

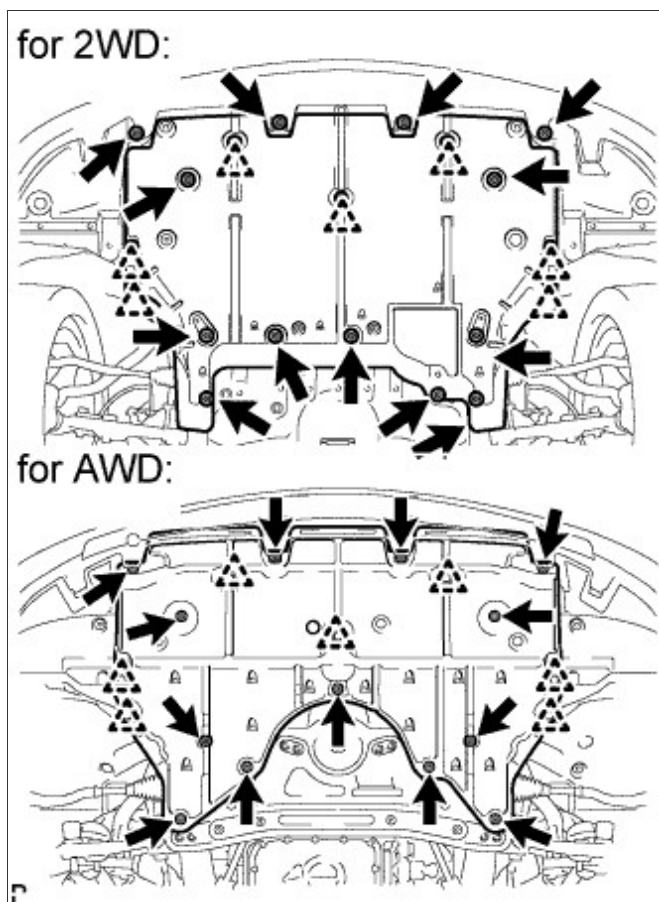


- b.** Hold the air cleaner inlet by the protrusions A and B, and detach the connections.
- c.** Rotate the No. 1 air cleaner inlet as shown in the illustration to detach the protrusion C.
- d.** Hold the air cleaner inlet by the protrusions D and E, and detach the connections.
- e.** Rotate the No. 1 air cleaner inlet as shown in the illustration to detach the protrusion F.



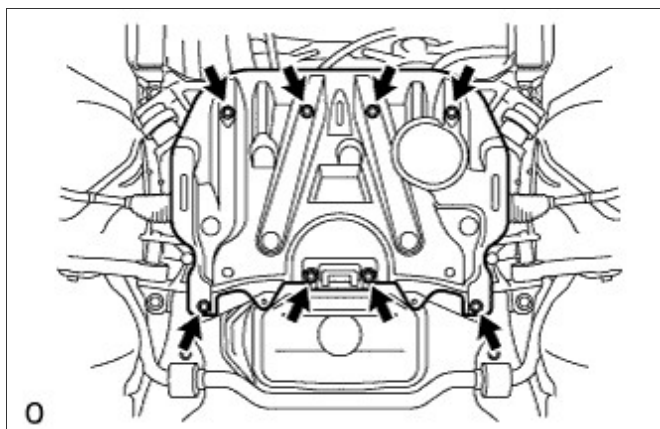
6. REMOVE NO. 1 ENGINE UNDER COVER

- a.** Remove the 13 screws, 7 clips and cover.



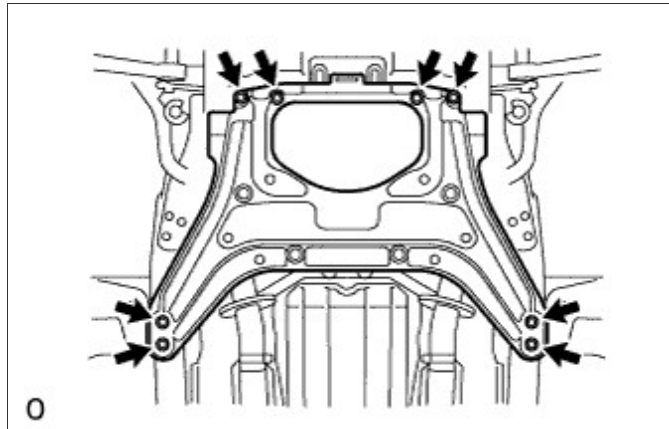
7. REMOVE FRONT SUSPENSION MEMBER PROTECTOR LOWER

- a. Remove the 8 bolts and suspension member protector.



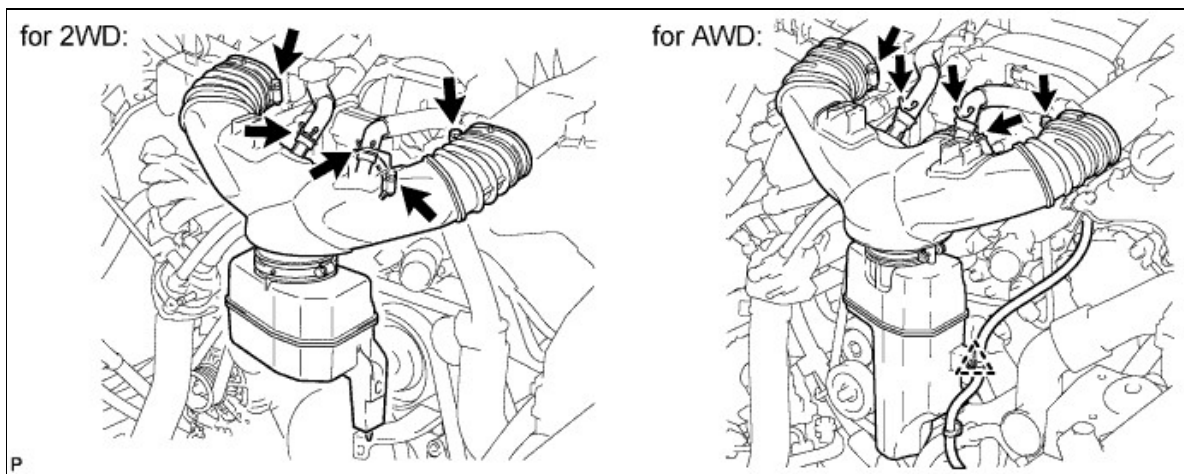
8. REMOVE NO. 2 ENGINE UNDER COVER

- a. Remove the 8 bolts and under cover.



9. REMOVE INTAKE AIR CONNECTOR PIPE

- a. Disconnect the No. 1 and No. 2 ventilation hoses from the intake air connector pipe.



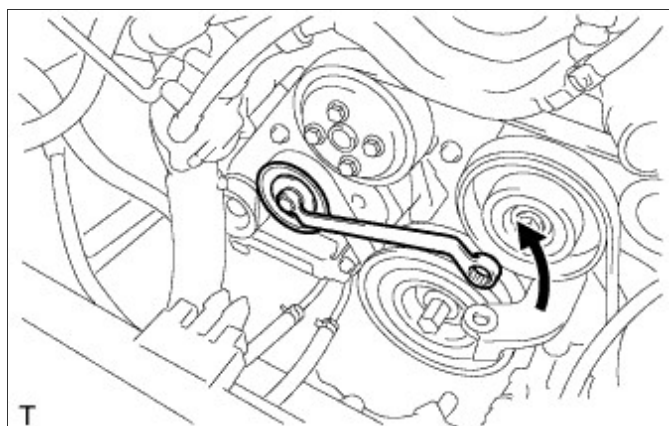
- b. for AWD:
Using a clip remover, detach the wire harness clamp.
- c. Loosen the 3 hose clamps, and remove the intake air connector pipe.

10. REMOVE V-RIBBED BELT

- a. Rotate the tensioner pulley counterclockwise to loosen the belt tension.

HINT:

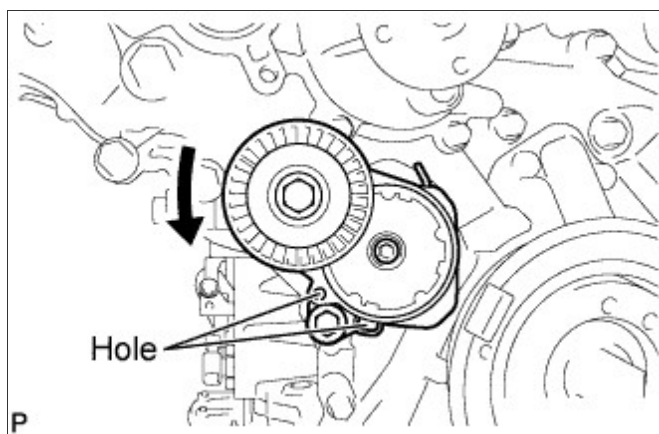
The pulley bolt for the belt tensioner has a left-handed thread.



- i. While turning the belt tensioner

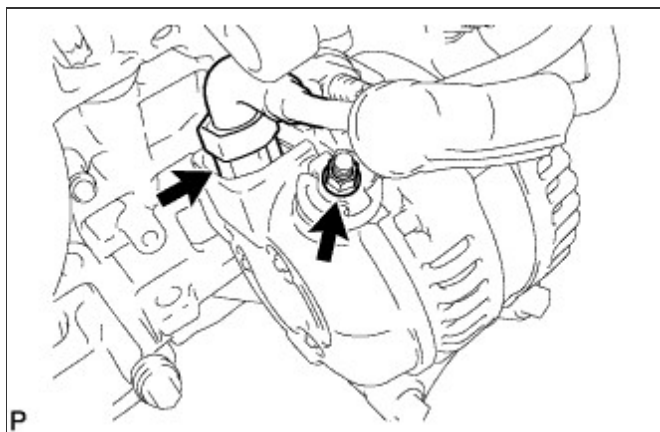
counterclockwise, align the holes. Insert a bar of \varnothing 5 mm (0.197 in.) into the holes to fix the belt tensioner in place.

- b.** Remove the V-ribbed belt.

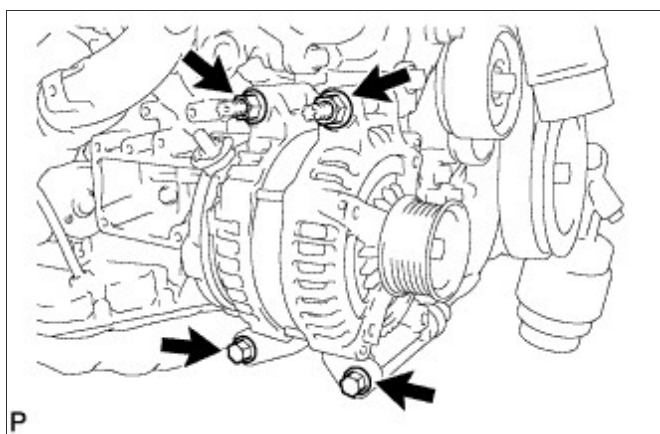


11. REMOVE GENERATOR ASSEMBLY

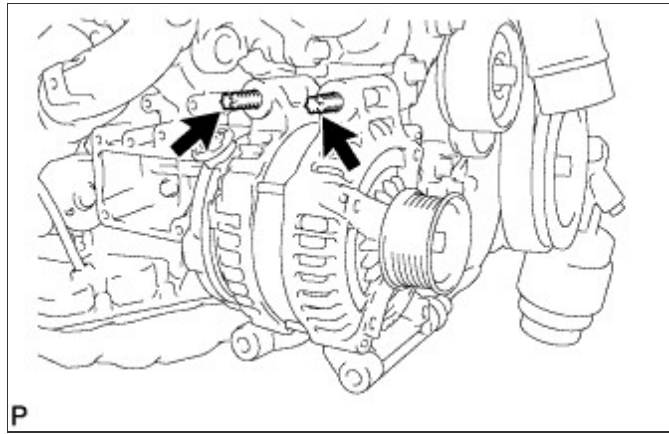
- a.** Remove the nut, and disconnect the harness from the +B terminal.
- b.** Disconnect the generator connector.



- c.** Remove the 2 bolts and 2 nuts.



- d.** Using an E8 "TORX" socket wrench, remove the 2 stud bolts and generator.



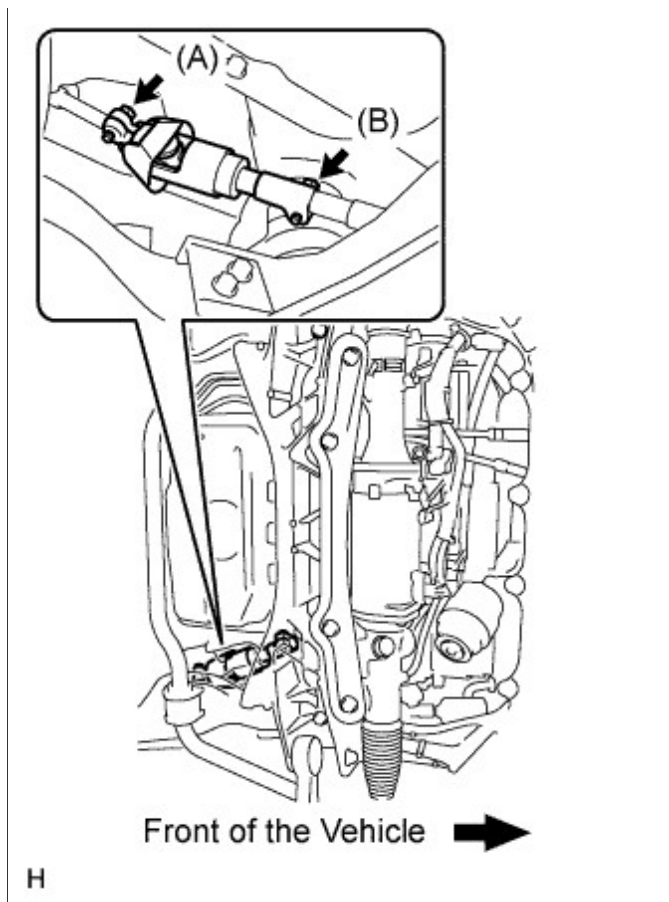
12. REMOVE FRONT EXHAUST PIPE ASSEMBLY

- a. Remove the front exhaust pipe (Refer to [1UR-FSE EXHAUST > EXHAUST PIPE > REMOVAL \(200909 - \)](#)).

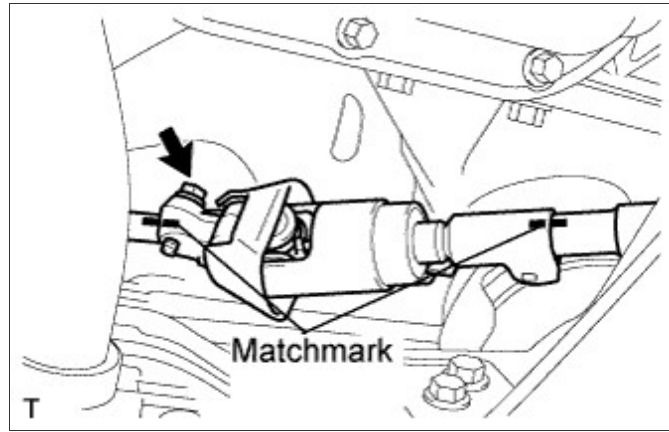
- a. Loosen bolt (A) and remove bolt (B), and then slide the steering sliding yoke with shaft.

NOTICE:

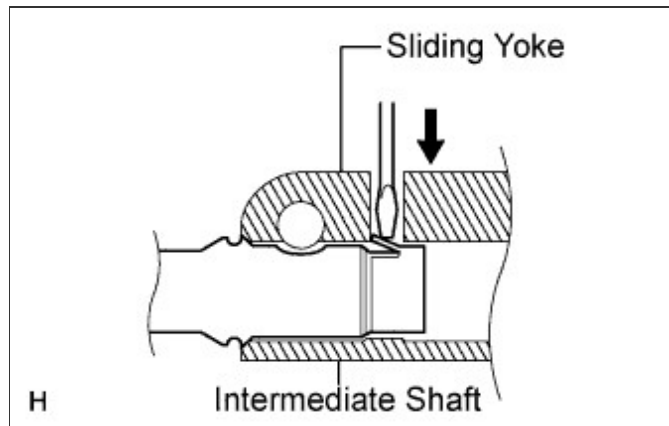
- Do not remove bolt (A).
- Do not separate the steering sliding yoke with shaft from the power steering gear.



- b. Put matchmarks on the steering sliding yoke with shaft, No. 2 steering intermediate shaft and steering link.



- c. Remove the bolt and steering sliding yoke.
- i. Remove the bolt.
 - ii. Insert a screwdriver or equivalent into the hole in the yoke. Hold down the claw of the intermediate shaft and remove the steering sliding yoke from the intermediate shaft.

**HINT:**

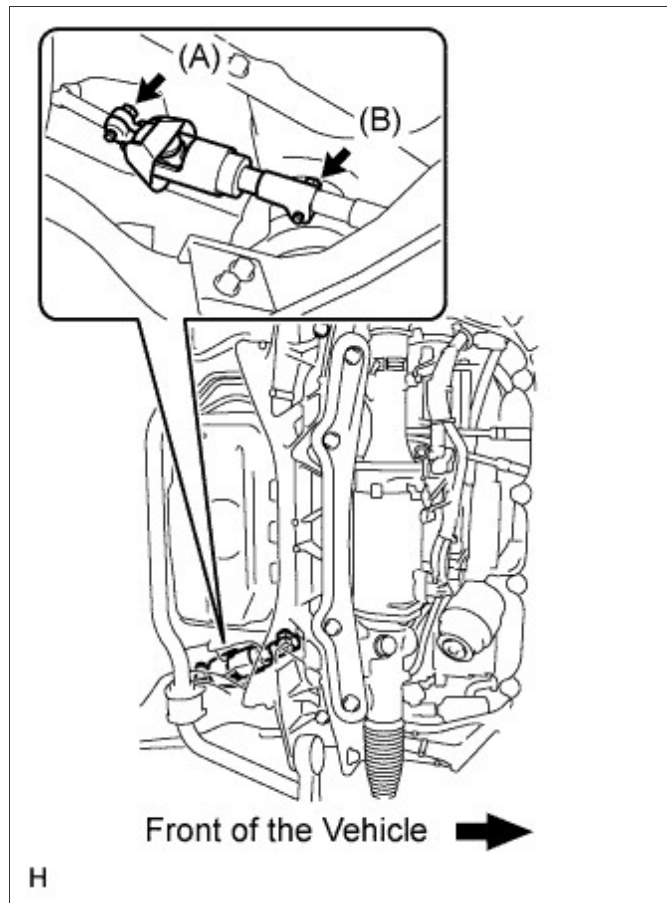
Even if the claw is damaged, the intermediate shaft does not have to be replaced.

- d. Separate the steering sliding yoke with shaft from the steering link.

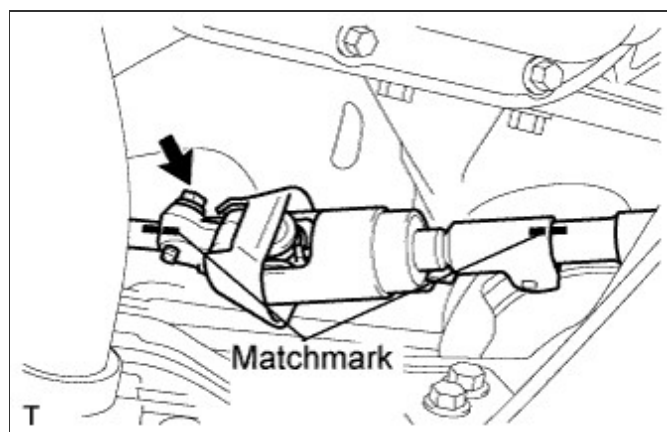
- a. Loosen bolt (A) and remove bolt (B), and then slide the steering sliding yoke with shaft.

NOTICE:

- Do not remove bolt (A).
- Do not separate the steering sliding yoke with shaft from the power steering gear.

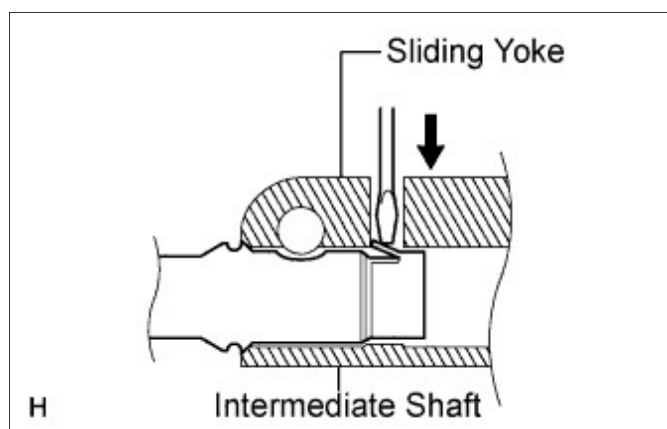


- b. Put matchmarks on the steering sliding yoke with shaft, No. 2 steering intermediate shaft and steering link.



- c. Remove the bolt and steering sliding yoke.

- i. Remove the bolt.
- ii. Insert a screwdriver or equivalent into the hole in the yoke. Hold down the claw of the intermediate shaft and remove the steering sliding yoke from the intermediate shaft.



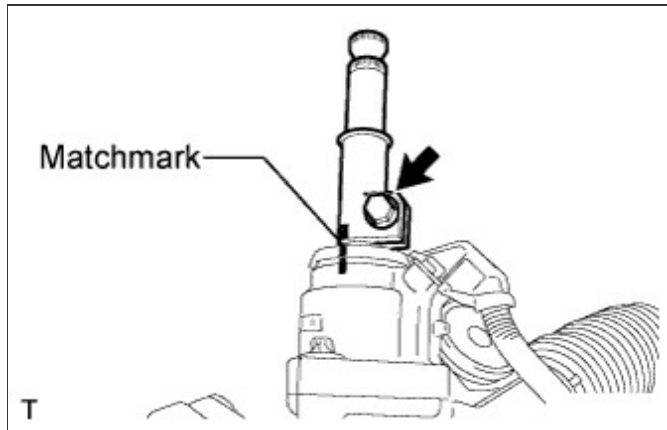
HINT:

Even if the claw is damaged, the intermediate shaft does not have to be replaced.

- d. Separate the steering sliding yoke with shaft from the steering link.

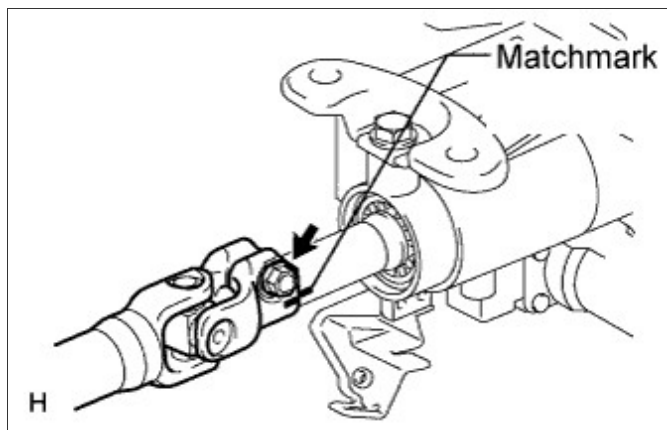
15. REMOVE STEERING INTERMEDIATE SHAFT (w/o VGRS)

- a. Put the matchmarks on the intermediate shaft and power steering link.
- b. Remove the bolt and intermediate shaft from the power steering link.

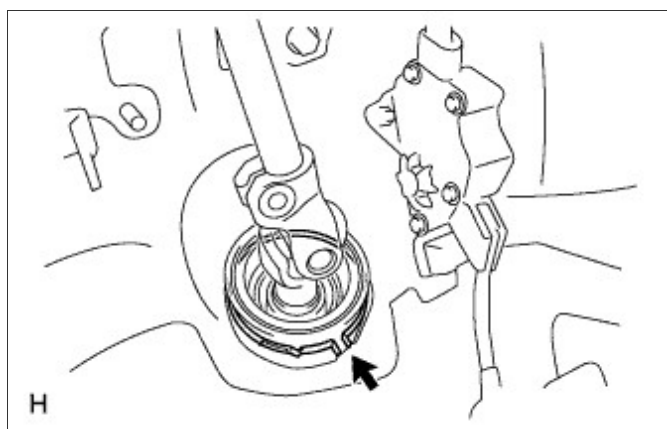


16. REMOVE NO. 2 STEERING INTERMEDIATE SHAFT ASSEMBLY (w/ VGRS)

- a. Put matchmarks on the No. 2 steering intermediate shaft and steering column.
- b. Remove the bolt.



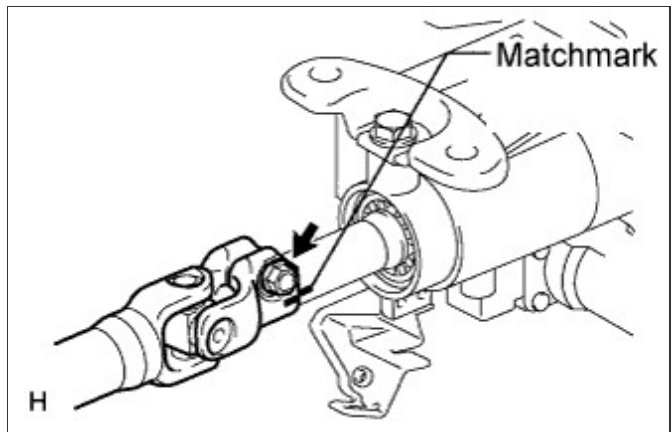
- c. Remove the clamp and No. 2 steering intermediate shaft.



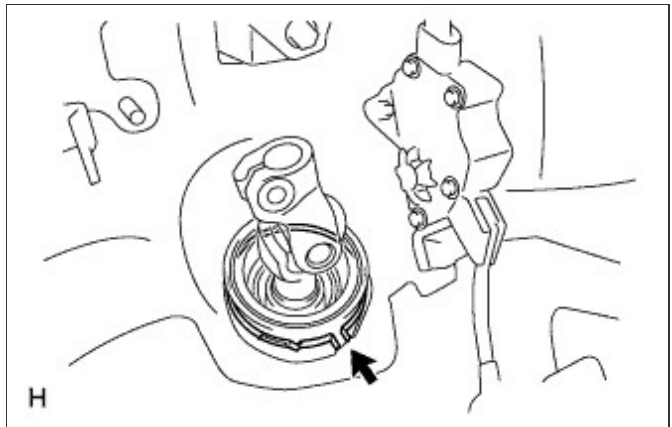
17. REMOVE NO. 2 STEERING INTERMEDIATE SHAFT ASSEMBLY (w/o VGRS)

- a. Put matchmarks on the No. 2 steering intermediate shaft and the steering column.

- b.** Remove the bolt.

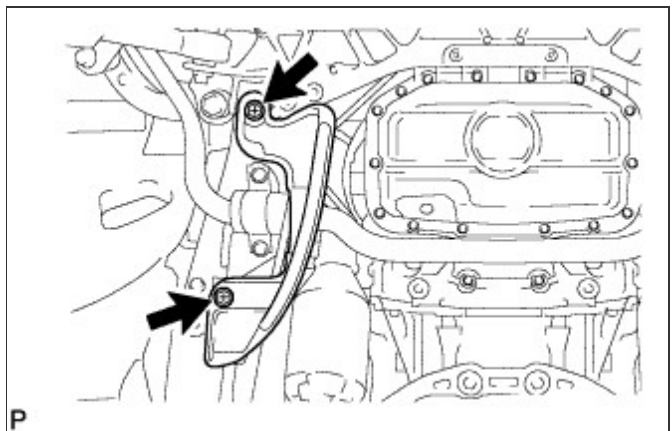


- c.** Remove the clamp and No. 2 steering intermediate shaft.



18. REMOVE ENGINE UNDER COVER REAR LH

- a.** Remove the 2 screws and the engine under cover rear LH.



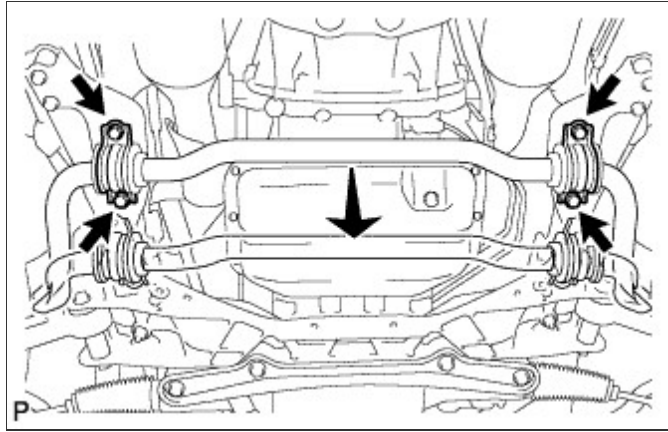
19. REMOVE ENGINE UNDER COVER REAR RH

HINT:

Remove the RH side following the same procedures as the LH side.

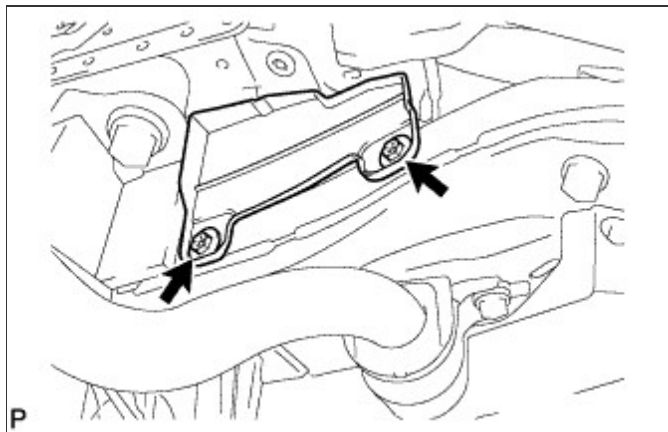
20. REMOVE FRONT STABILIZER BAR

- a.** Remove the 4 bolts and disconnect the stabilizer bar from the rear brace.



21. REMOVE ENGINE UNDER COVER SUB-ASSEMBLY LH

- a. Remove the 2 screws and the engine under cover sub-assembly LH from the front suspension member reinforcement LH.



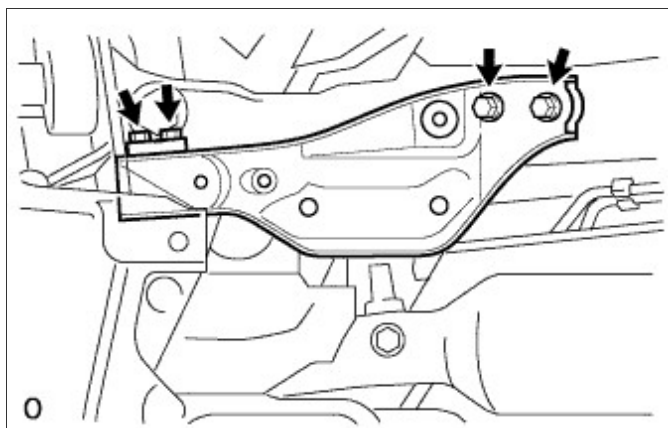
22. REMOVE ENGINE UNDER COVER SUB-ASSEMBLY RH

HINT:

Remove the RH side following the same procedures as the LH side.

23. REMOVE FRONT SUSPENSION MEMBER REINFORCEMENT LH

- a. Remove the 4 bolts and front suspension member reinforcement LH from the vehicle.



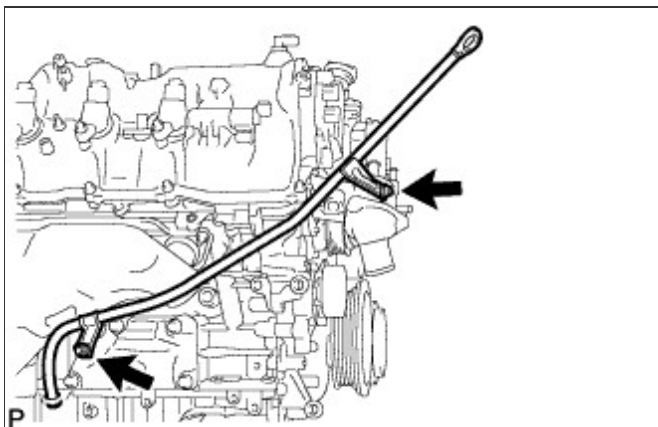
24. REMOVE FRONT SUSPENSION MEMBER REINFORCEMENT RH

HINT:

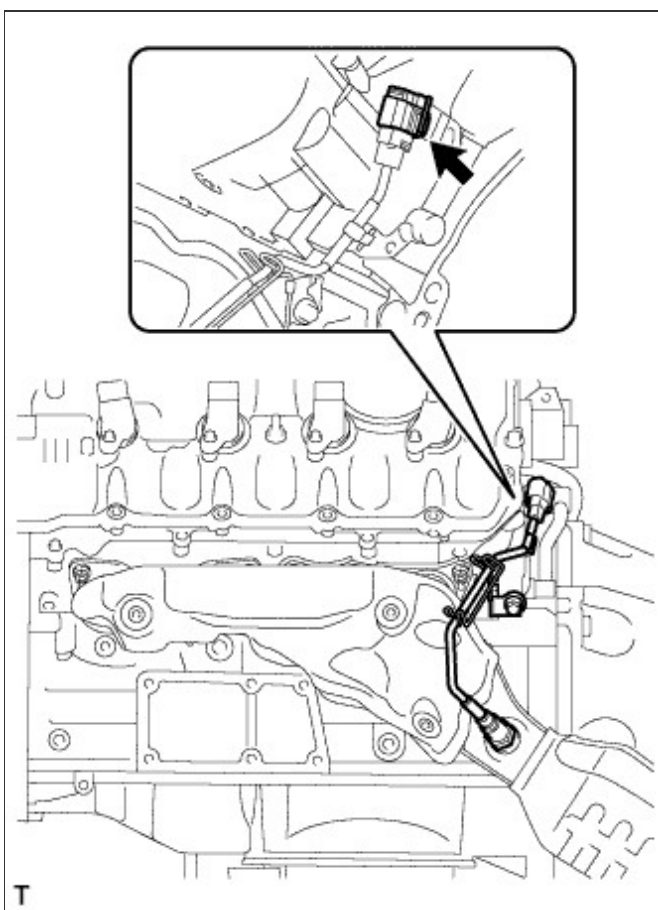
Remove the RH side following the same procedures as the LH side.

25. REMOVE OIL DIPSTICK GUIDE

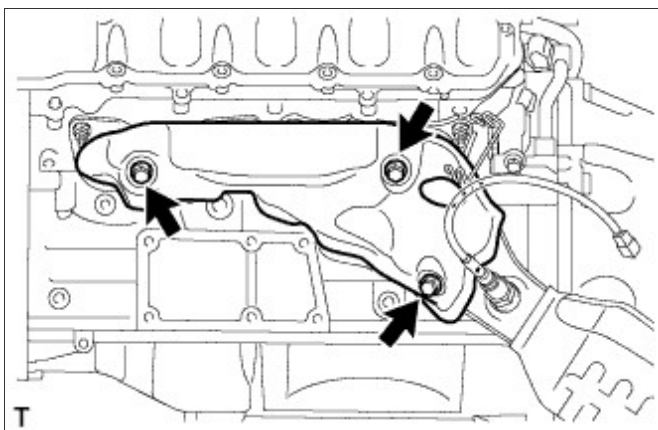
- a. Remove the dipstick.
- b. Remove the 2 bolts and dipstick guide.

**26. REMOVE NO. 2 EXHAUST MANIFOLD HEAT INSULATOR**

- a. Disconnect the air fuel ratio sensor connector.

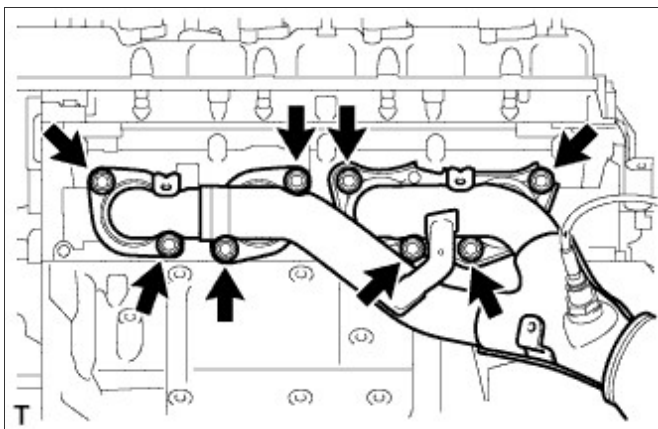


- b. Remove the 3 bolts and No. 2 exhaust manifold heat insulator.

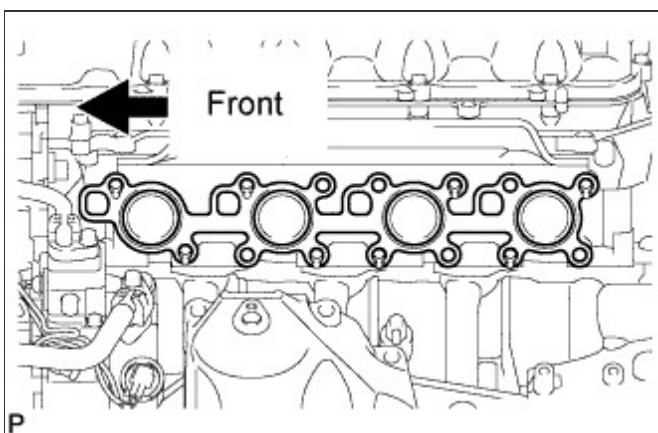


27. REMOVE EXHAUST MANIFOLD SUB-ASSEMBLY LH

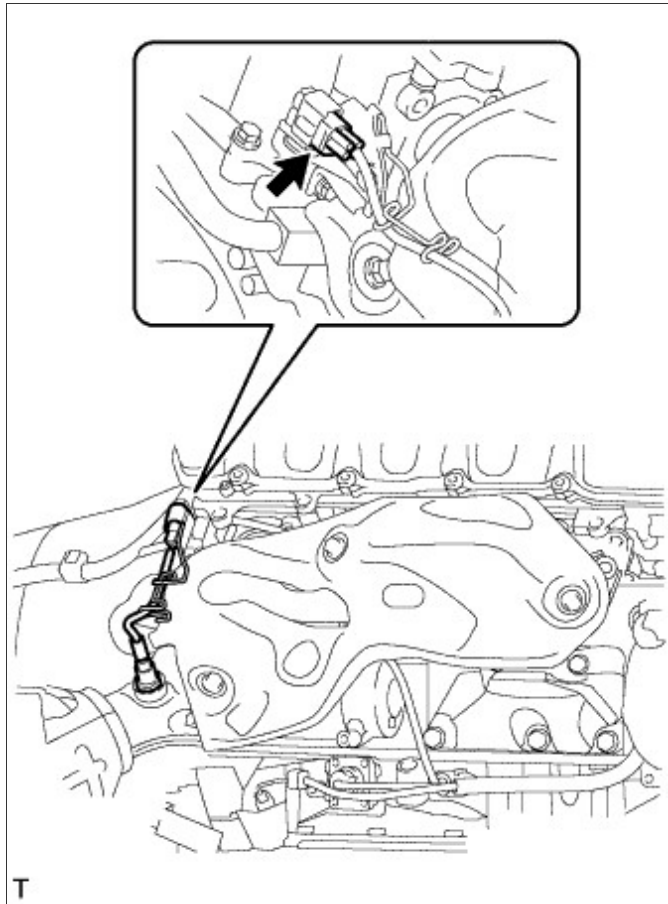
- a.** Remove the 8 nuts and exhaust manifold LH.



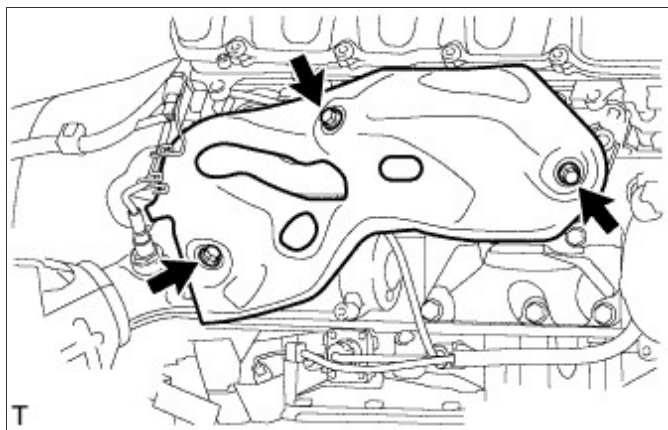
- b.** Remove the gasket.



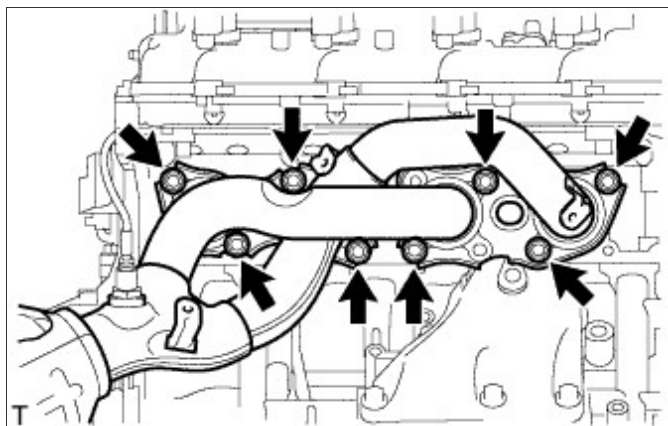
- a.** Disconnect the air fuel ratio sensor connector.



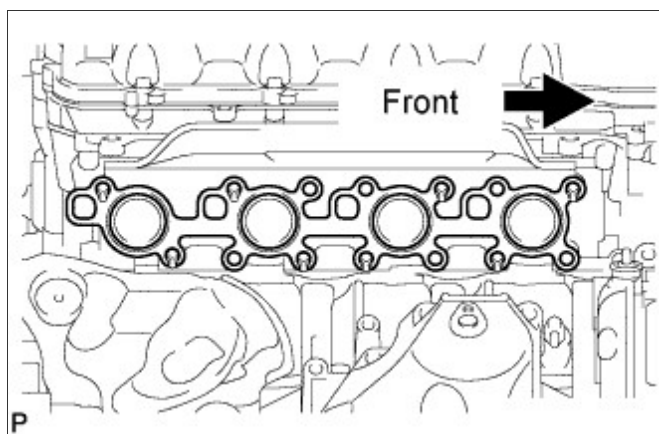
- b.** Remove the 3 bolts and No. 1 exhaust manifold heat insulator.



- a.** Remove the 8 nuts and exhaust manifold RH.



- b. Remove the gasket.

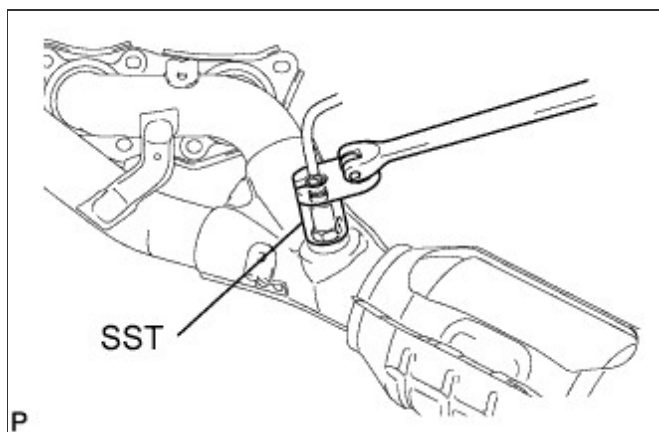


30. REMOVE AIR FUEL RATIO SENSOR (for Bank 1 Sensor 1)

- a. Using SST, remove the air fuel ratio sensor from the exhaust manifold LH.

SST

09224-00010



31. REMOVE AIR FUEL RATIO SENSOR (for Bank 2 Sensor 1)

- a. Using SST, remove the air fuel ratio sensor from the exhaust manifold RH.

SST

09224-00010

