



KIA SERVICE INFORMATION SYSTEM



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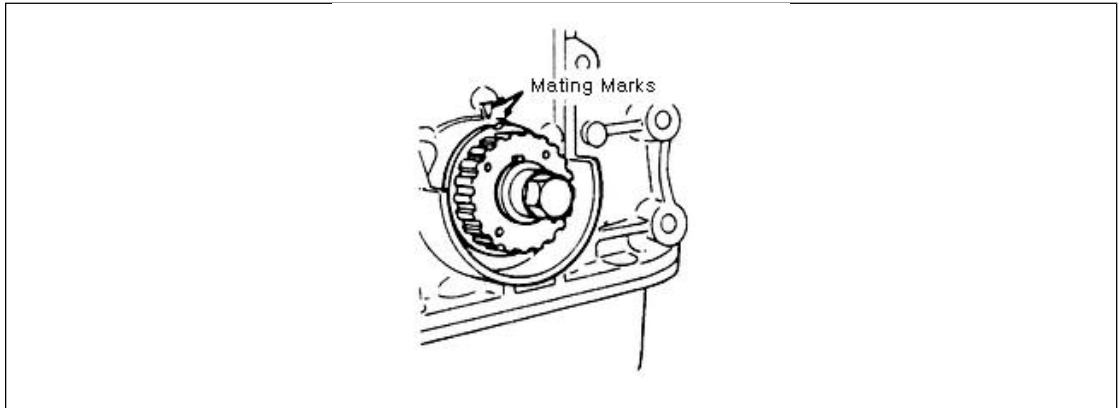
INSTALLATION

Related Items

None

INSTALLATION

- Align the timing belt pulley and the pump body alignment marks.



- Align the mating marks on the camshaft pulleys with the alignment marks on the seal plate.

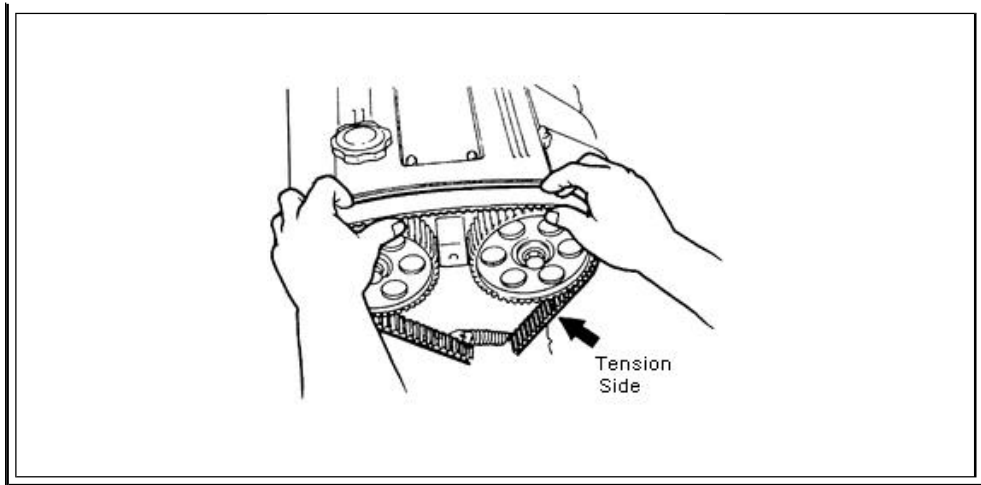
NOTE

- For intake side camshaft pulley, align "I" mark
- For exhaust side camshaft pulley, align "E" mark.

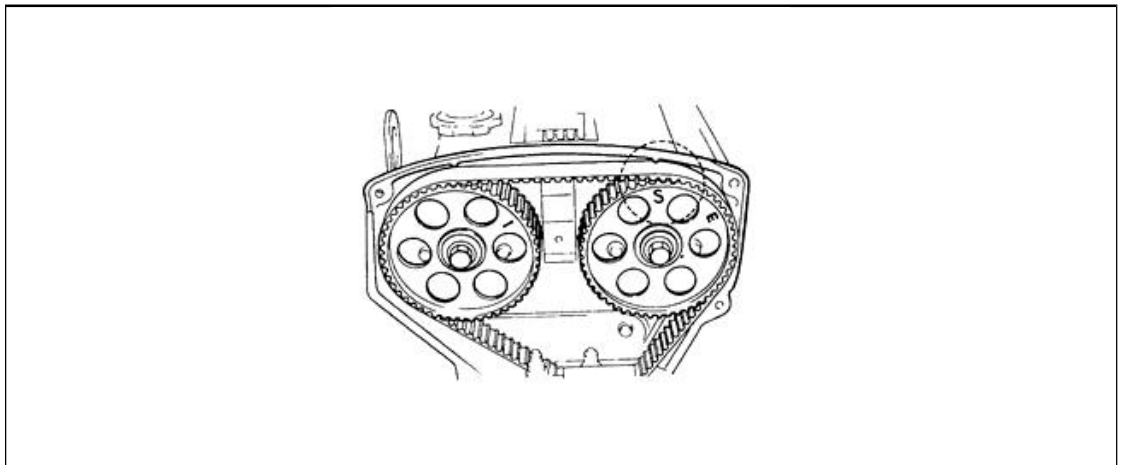
- Install the timing belt so there is no looseness at the tension side, and at the two camshaft pulleys.

CAUTION

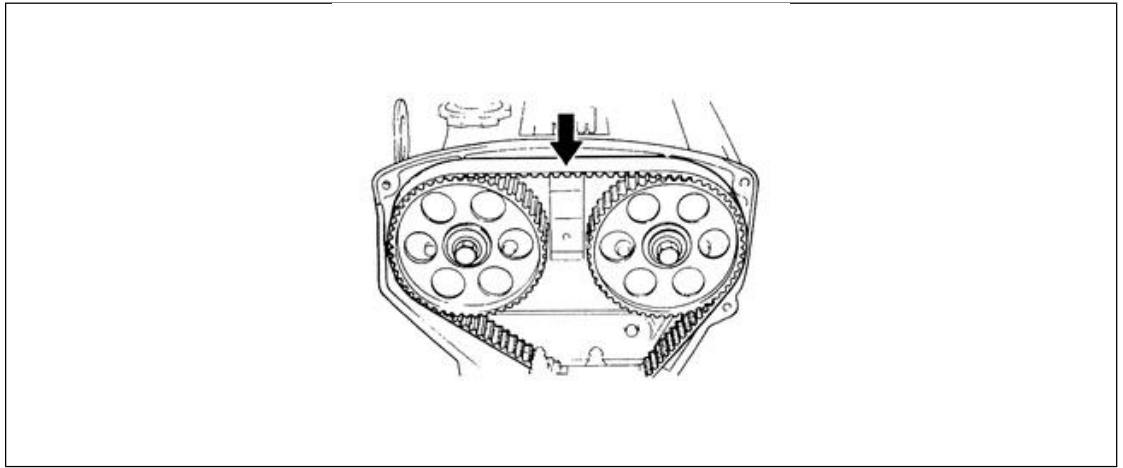
- If the timing belt is being, it must be reinstalled to rotate in the original direction.
- Check that there is no oil, grease, or dirt on the timing belt.



- Loosen the tensioner lock bolt.
- Turn the crankshaft two complete revolutions in the direction of rotation.
- Check that the mating marks are correctly aligned. If not aligned correctly, remove the timing belt and tensioner, and return to step 1.
- Turn the crankshaft to align the "S" mark of the exhaust camshaft pulley with the seal plate mating mark.



- Tighten the timing belt tensioner lock bolt.
 Tightening torque : 27-38ft lb(32-52N m, 3.8-5.3kg m)
- Check the timing belt deflection. If the deflection is not correct, loosen the tensioner lock bolt and repeat steps 5-7 above. Replace the tensioner spring if necessary.



Belt deflection : 0.30-0.33 in.(7.5-8.5mm) 22lb(98N, 10kg)

- Install the lower timing belt cover and two bolts.
- Refer to Timing Belt.

Tightening torque : 61-87in lb(7-10N m)

- Install the upper timing belt cover and five bolts.
- Refer to Timing Belt.

Tightening torque : 61-87in lb(7-10N m)

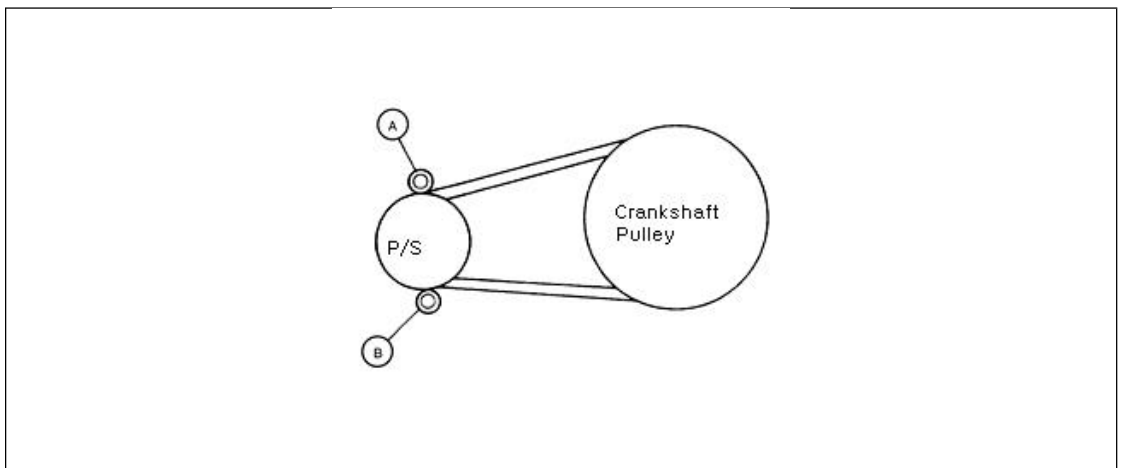
- Install the power steering drive belt and set belt deflection.

Power Steering Belt deflection :

New : 0.31-0.39in.(8-10mm)

Used : 0.35-0.43in.(9-11mm)

- Tighten the lock bolt(A) and mounting bolt(B).



Tightening torque : 27-34in lb(37-46N m)

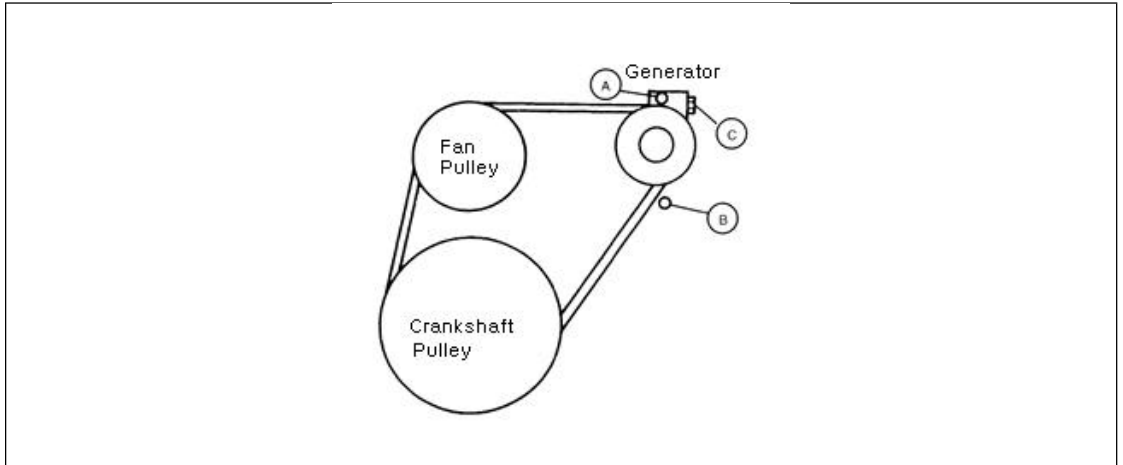
- Install the fan pulley.
- Install the generator drive belt and adjust belt deflection by tightening adjusting bolt(C).

Generator Belt deflection :

New : 0.24-0.31in.(6-8mm)

Used : 0.27-0.35in.(7-9mm)

- Tighten generator mounting bolts(A and B).



Tightening torque :

A : 16 ft lb(22N m)

B : 32ft lb(45N m)

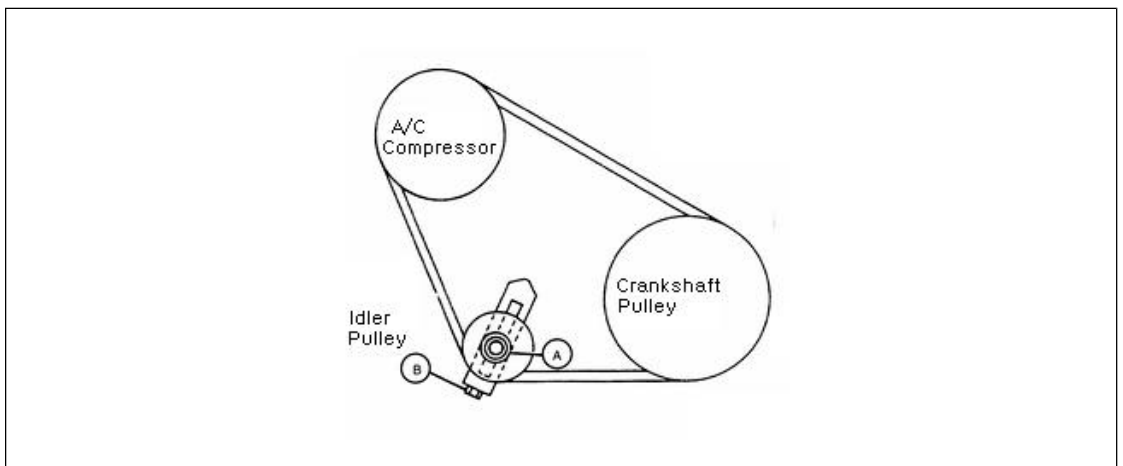
- Install A/C drive belt and set belt deflection by tightening adjusting bolt(B).

A/C Belt deflection :

New : 0.27-0.35in.(7-9mm)

Used : 0.31-0.39in.(8-10mm)

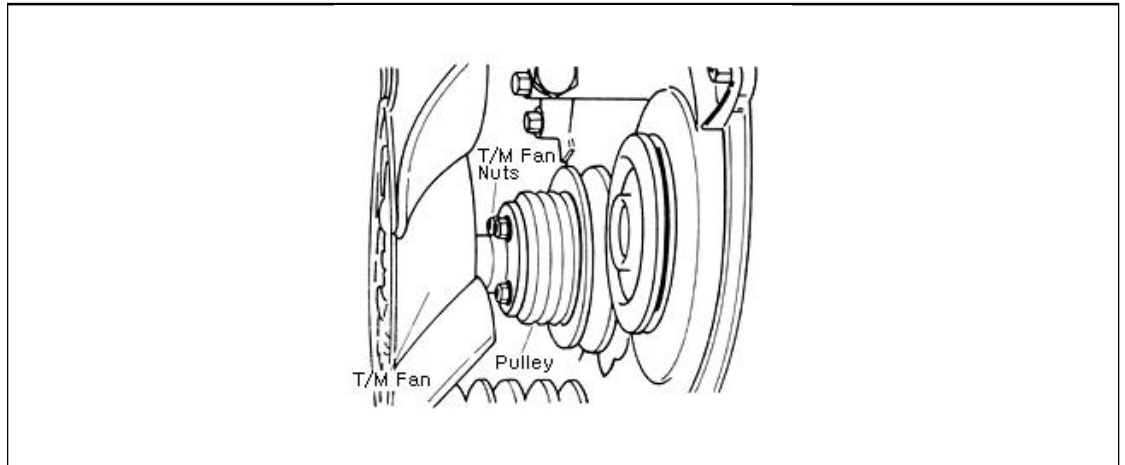
- Tighten the adjusting bolt(B) and idler pulley bolt(A).



Tightening torque : 23-25 ft lb(31-34N m)

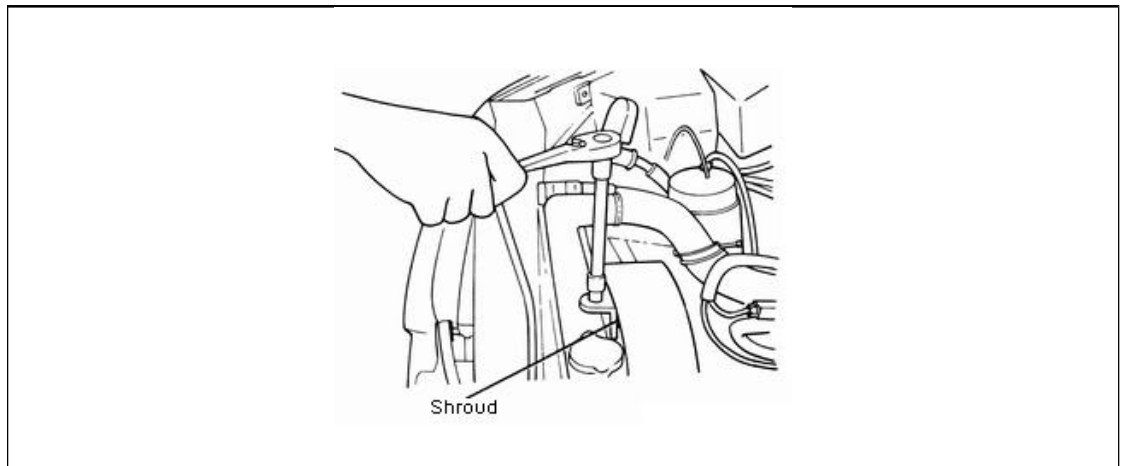
- Install the splash guard tighten the four mounting bolts.

- Install the fan and shroud.
- Install the four fan bolts and tighten.



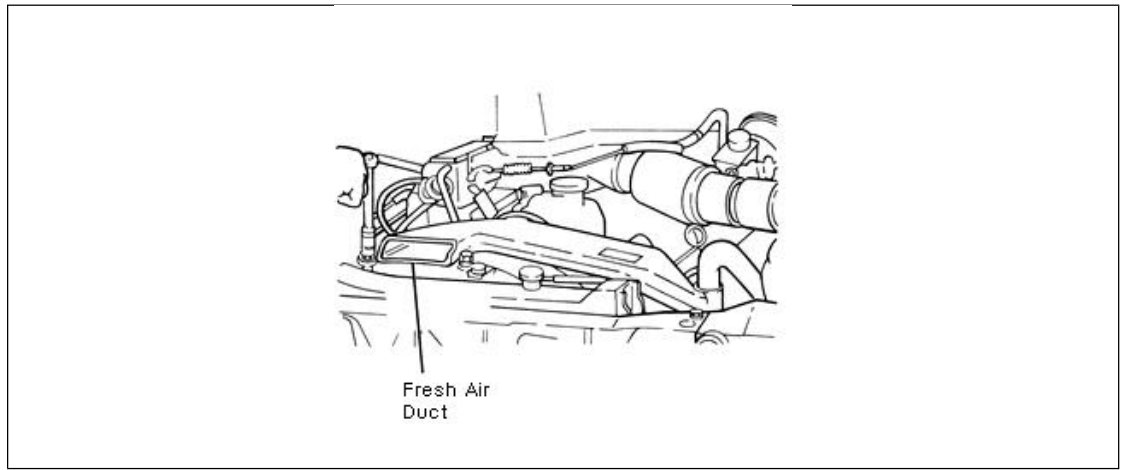
Tightening torque : 24ft lb(32.6N m)

- Install the five fan shroud mounting bolts.



Tightening torque : 69-95 in lb(7.8-11N m)

- Install the fresh air duct.
- Install the hose at the resonance chamber.
- Install the hose at the clamp at the air intake housing.
- Install the two fresh air duct mounting bolts and tighten.



Tightening torque : 69-95 in lb(7.8-11N m)

- Reconnect the negative battery cable.

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