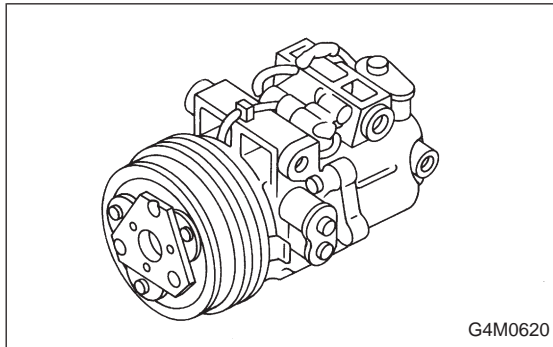


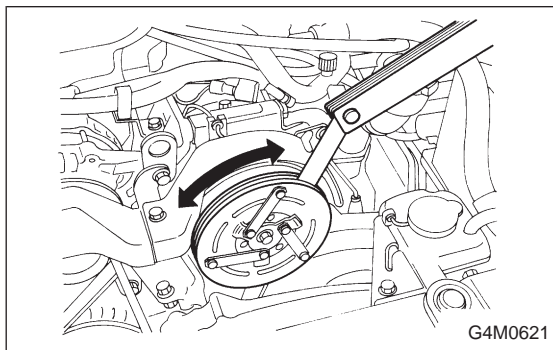
NOTE:

If only one thermometer is available; 1) take the ambient measurement first; then 2) the intake air; and 3) discharge air temperature.



11. Compressor

Compressor is a 5-vane rotary type. When trouble occurs, replace compressor as a single unit.



1. COMPRESSOR CLUTCH

Compressor clutch trouble is often caused by clutch slippage and noise. Check and take corrective measures, as required.

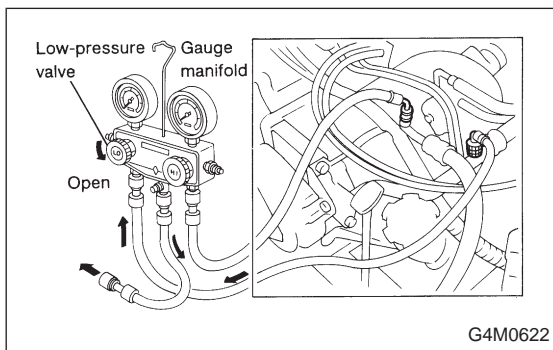
1) Check that clearance between drive plate and pulley over the entire perimeter is within specifications.

Clearance:

0.3 — 0.6 mm (0.012 — 0.024 in)

2) Check that voltage applied to magnetic coil is at least 10.5 volts.

3) When noise is noted, check that it originates in either compressor or pulley bearing.

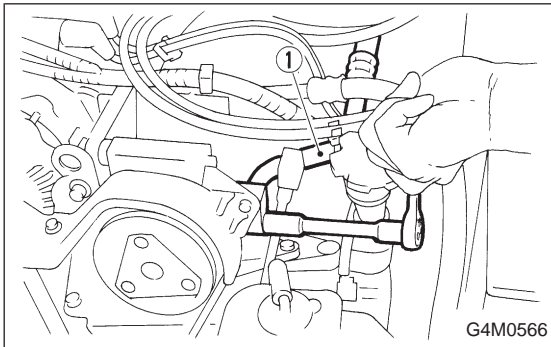


A: REMOVAL

- 1) Disconnect ground cable from battery.
- 2) Discharge refrigerant using manifold gauge.
 - (1) Fully close low-pressure valve of manifold gauge.
 - (2) Connect low-pressure charging hose of manifold gauge to low-pressure service valve.
 - (3) Open low-pressure manifold gauge valve slightly, and slowly discharge refrigerant from system.

CAUTION:

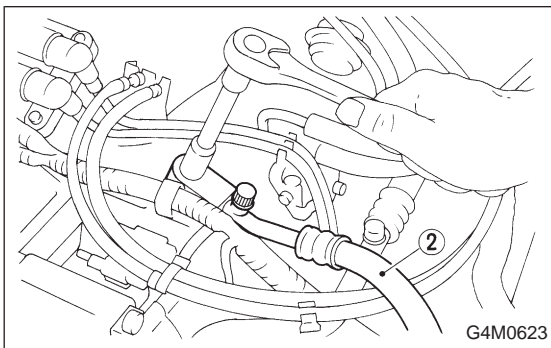
Do not allow refrigerant to rush out. Otherwise, compressor oil will be discharged along with refrigerant.



3) Low-pressure hose ① (Flexible hose Ps)

CAUTION:

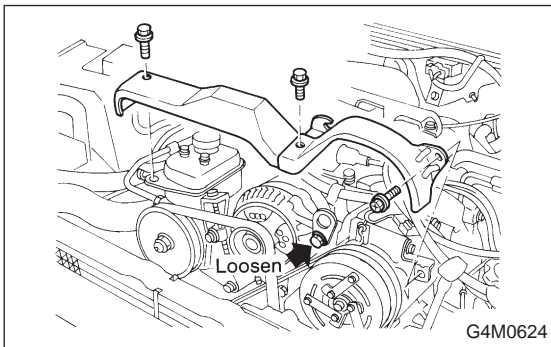
- Be careful not to lose O-ring of low-pressure hose.
- Plug the opening to prevent foreign matter from entering.



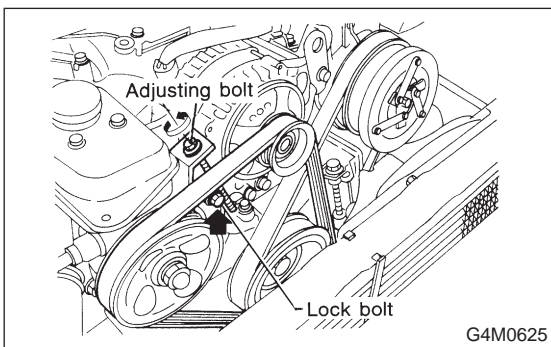
4) High-pressure hose ② (Flexible hose Pd)

CAUTION:

- Be careful not to lose O-ring of high-pressure hose.
- Plug the opening to prevent foreign matter from entering.

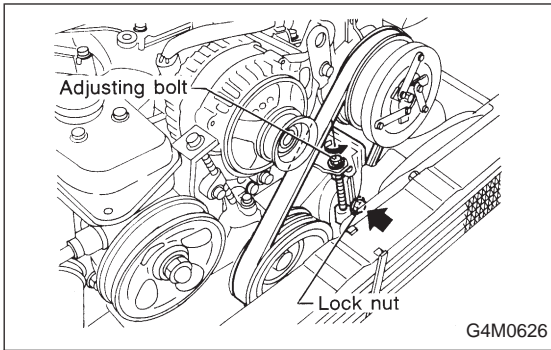


5) Compressor belt cover and generator belt cover
Remove bolts which secure belt covers.

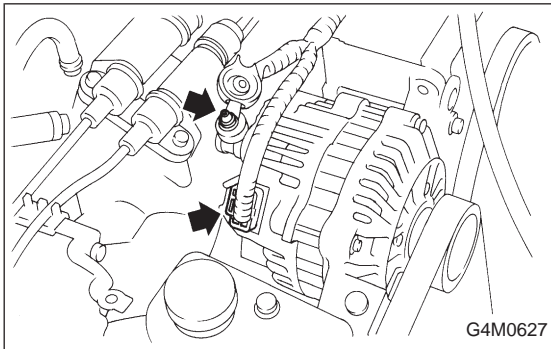


6) Generator V-belt

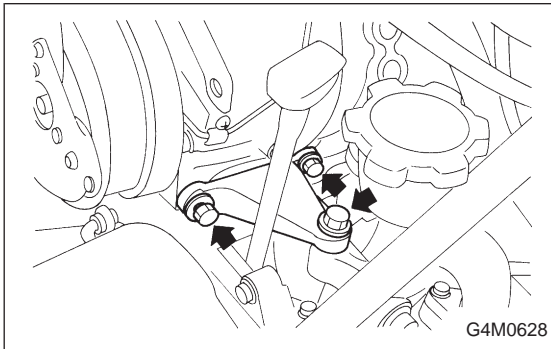
Loosen lock bolt on generator bracket. Turn adjusting bolt and remove V-belt.



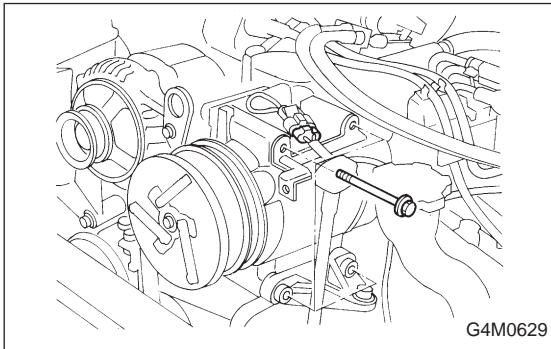
7) Compressor V-belt
Loosen lock bolt on idler pulley. Turn adjusting bolt and remove V-belt.



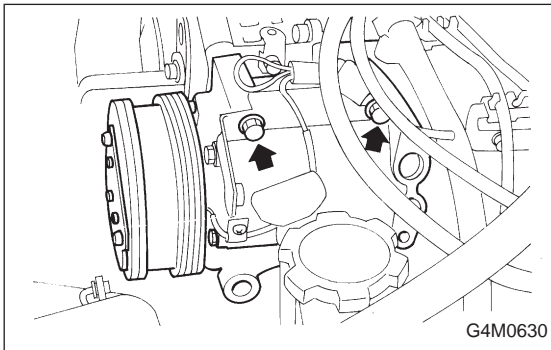
8) Generator harness



9) Compressor harness
Disconnect compressor harness from body harness.
10) Lower bracket
Remove bolts which secure lower compressor bracket.



11) Compressor
Remove bolts which secure compressor. Remove compressor from bracket.

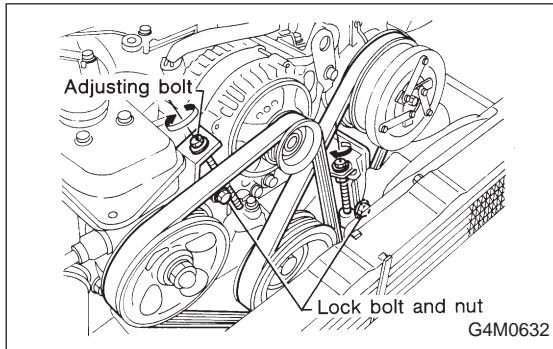


B: INSTALLATION

1) Compressor
Install compressor on bracket.

- 2) Compressor harness
- 3) Generator harness
- 4) Compressor V-belt (Rear)

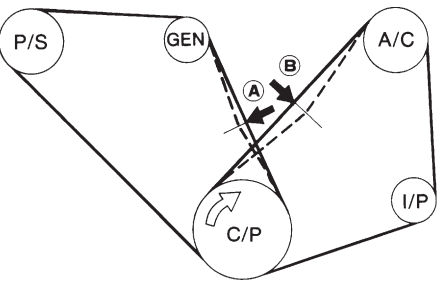
After adjusting belt tension, tighten tension pulley lock bolt securely.



- 5) Generator V-belt

After adjusting V-belt tension, tighten generator bracket lock bolt securely.

- 6) Check drive belt tension and adjust it if necessary by changing generator position and/or idler pulley position.

Pulley arrangement	Tension mm (in)/98 N (10 kg, 22 lb)	
	A	B
 <p>G4M0633</p>	<p>*New belt: 7.0 — 9.0 (0.276 — 0.354) Existing belt: 9.0 — 11.0 (0.354 — 0.433)</p>	<p>*New belt: 7.5 — 8.5 (0.295 — 0.335) Existing belt: 9.0 — 10.0 (0.354 — 0.394)</p>

* When replacing belts with new ones, adjust tensions to specification and then readjust to the same specification after running engine for 5 minutes.

Figures in table refer to the number of grooves in pulleys.

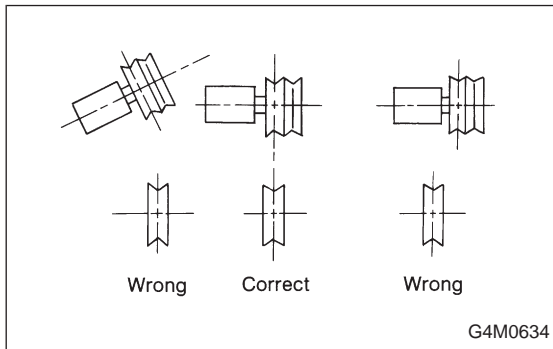
C/P : Crankshaft pulley

GEN : Generator pulley

P/S : Power steering oil pump pulley

A/C : Air conditioner compressor pulley

I/P : Idler pulley



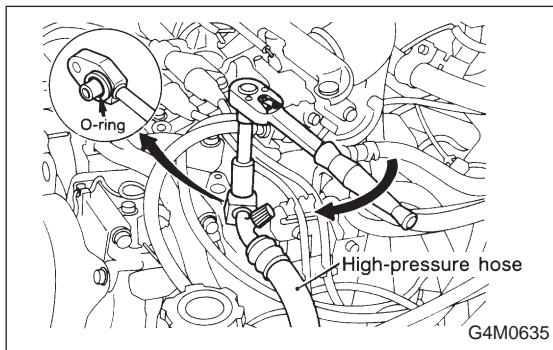
CAUTION:

● Ensure that the V-belt is aligned correctly. If it is not, check for loose bolts.

● The V-belt should not be too tight or too loose.

A belt which is too tight may break bearing or cause gas to leak from the shaft seal. A belt which is too loose slips, thereby causing the belt cut.

● After completing the compressor installation and testing the system operation, check and adjust the tension of both V-belts again.

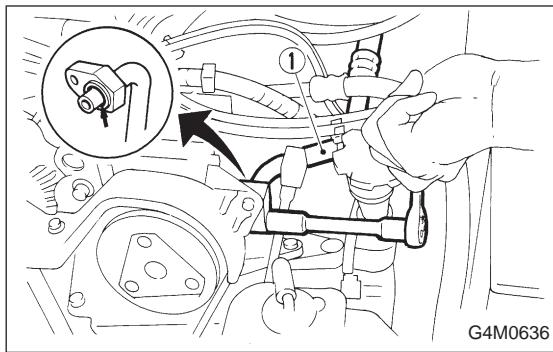


7) High-pressure hose (Flexible hose Pd)

Connect high-pressure hose with compressor.

CAUTION:

Be sure to apply compressor oil to the periphery of O-ring.



8) Low-pressure hose ① (Flexible hose Ps)
Connect low-pressure hose with compressor.

CAUTION:

Be sure to apply compressor oil to the periphery of O-ring.

9) Install belt cover.

CAUTION:

- After installing belt cover, make sure it is not misaligned or twisted.
- After installing belt cover, check the clearance between pulley and belt cover.

10) Connect ground cable to negative terminal of battery.

11) Charging refrigerant. <Ref. to 4-7 [W700].>