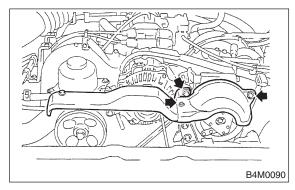
9. Compressor S701281

A: INSPECTION S701281A10

NOTE:

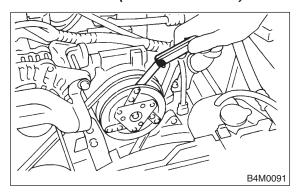
- Compressor is a 5-vane rotary type. When trouble occurs, replace compressor as a single unit.
- Compressor clutch trouble is often caused by clutch slippage and noise. Check and take corrective measures, as required.
- 1) Remove belt cover.



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

Clearance:

0.45±0.15 mm (0.0177±0.0059 in)



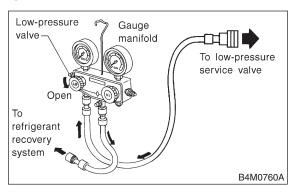
- 3) Check that voltage applied to magnetic coil is at least 10.5 volts.
- 4) When noise is noted, check that it originates in either compressor or pulley bearing.

B: REMOVAL S701281A18

- 1) Disconnect ground cable from battery.
- 2) Discharge refrigerant using refrigerant recovery system. <Ref. to AC-16 OPERATION, Refrigerant Recovery Procedure.>
 - (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:

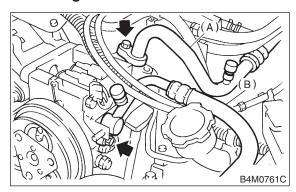
Do not allow refrigerant to rush out. Otherwise, compressor oil will be discharged along with refrigerant.



3) Remove low-pressure hose (A) (Flexible hose Ps) and high-pressure hose (B) (Flexible hose Pd).

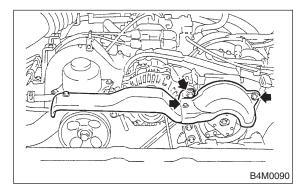
CAUTION:

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

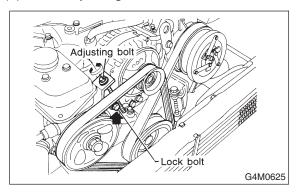


4) Compressor belt cover and generator belt cover:

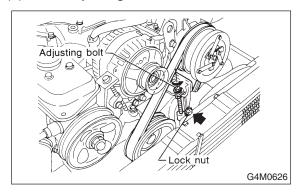
Remove bolts which secure belt covers.



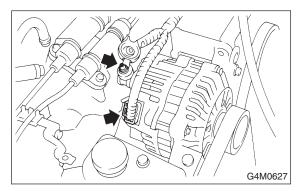
- 5) Remove alternator V-belt:
 - (1) Loosen lock bolt on generator bracket.
 - (2) Turn adjusting bolt and remove V-belt.



- 6) Remove compressor V-belt:
 - (1) Loosen lock bolt on idler pulley.
 - (2) Turn adjusting bolt and remove V-belt.



7) Disconnect alternator harness.

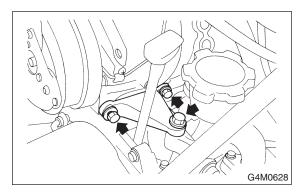


8) Disconnect compressor harness:

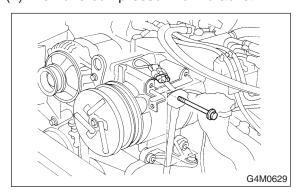
Disconnect compressor harness from body harness.

9) Remove lower bracket:

Remove bolts which secure lower compressor bracket.

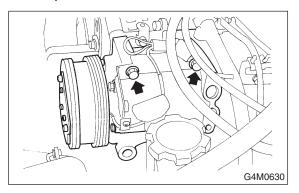


- 10) Remove compressor:
 - (1) Remove bolts which secure compressor.
 - (2) Remove compressor from bracket.



C: INSTALLATION S701281A11

1) Install compressor: Install compressor on bracket.

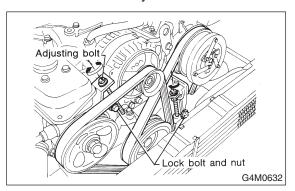


- 2) Connect compressor harness.
- 3) Connect alternator harness.
- 4) Install compressor V-belt (Rear):

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

5) Install alternator V-belt:

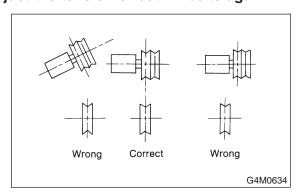
After adjusting V-belt tension, tighten generator bracket lock bolt securely.



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

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.

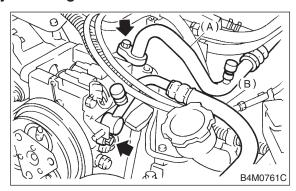


Pulley arrangement	Tension mm (in)/98N (10 kg, 22 lb)	
P/S ALT (B)	(A)	(B)
Figures in table refer to the number of grooves in pulleys. C/P: Crankshaft pulley ALT: Alternator pulley P/S: Power steering oil pump pulley A/C: Air conditioner compressor pulley I/P: Idler pulley	*New belt: 7.0 - 9.0 (0.276 - 0.354) Existing belt: 9.0 - 11.0 (0.354 - 0.433)	*New belt: 7.5 - 8.5 (0.295 - 0.335) Existing belt: 9.0 - 10.0 (0.354 - 0.394)
	*When replacing belts with new ones, adjust tensions to specification and then readjust to the same specification after running engine for 5 minutes.	

7) Install high-pressure hose (B) (Flexible hose Pd) and low-pressure hose (A) (Flexible hose Ps): Connect high-pressure hose (B) and low-pressure hose (A) with compressor.

CAUTION:

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



8) 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.
- 9) Connect ground cable to negative terminal of battery.
- 10) Charging refrigerant. <Ref. to AC-17 OPERATION, Refrigerant Charging Procedure.>