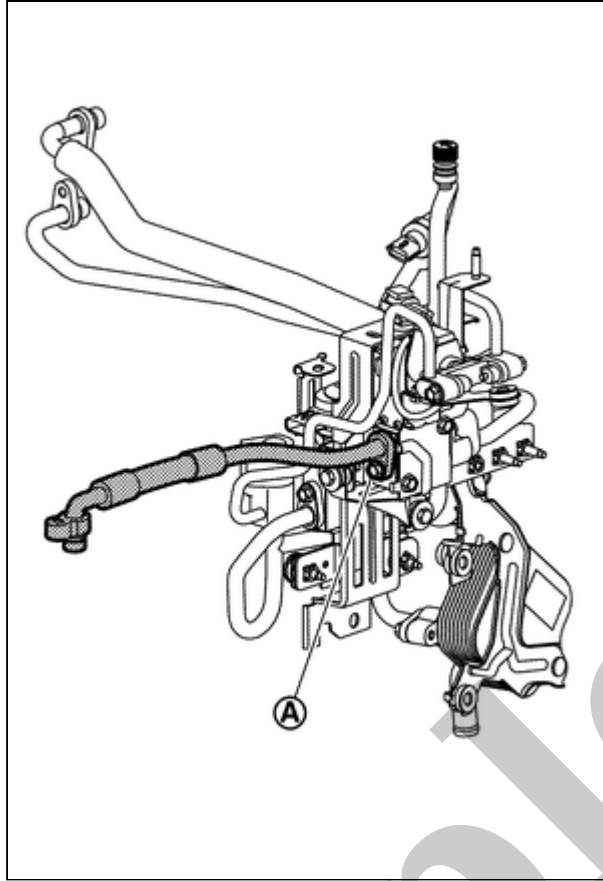


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2024 Nissan GT-R Service and Repair Manual

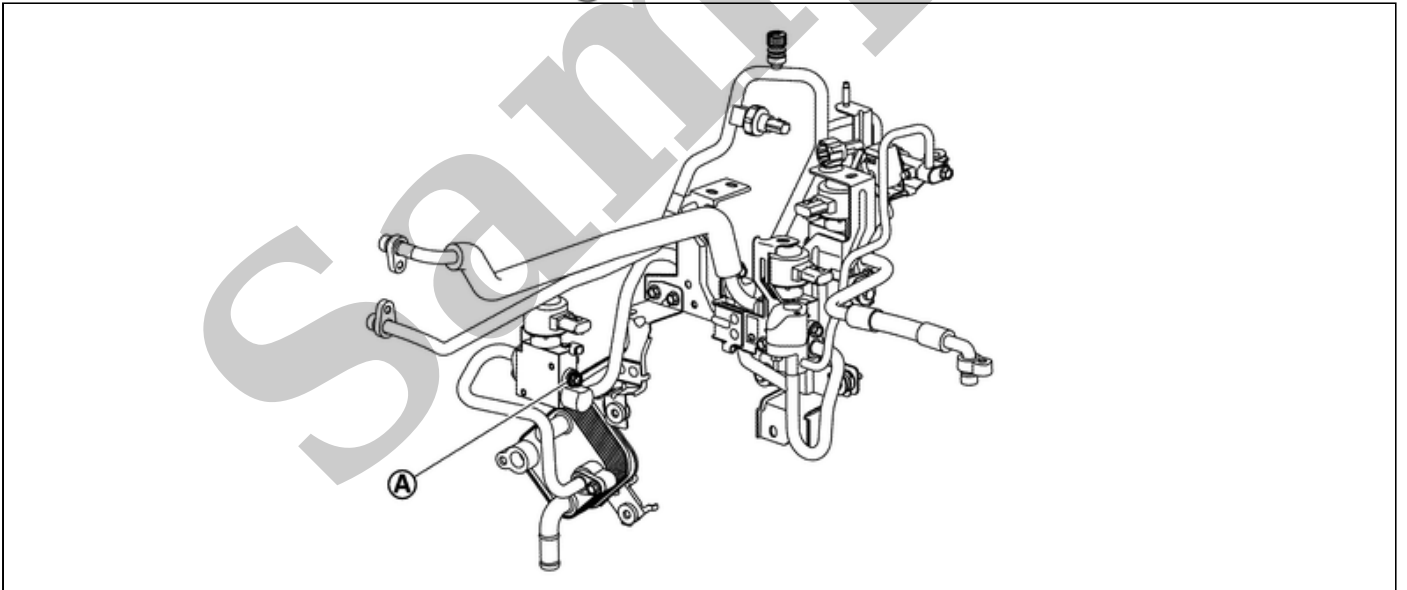
[Go to manual page](#)



RPR-001931225-05-000376562

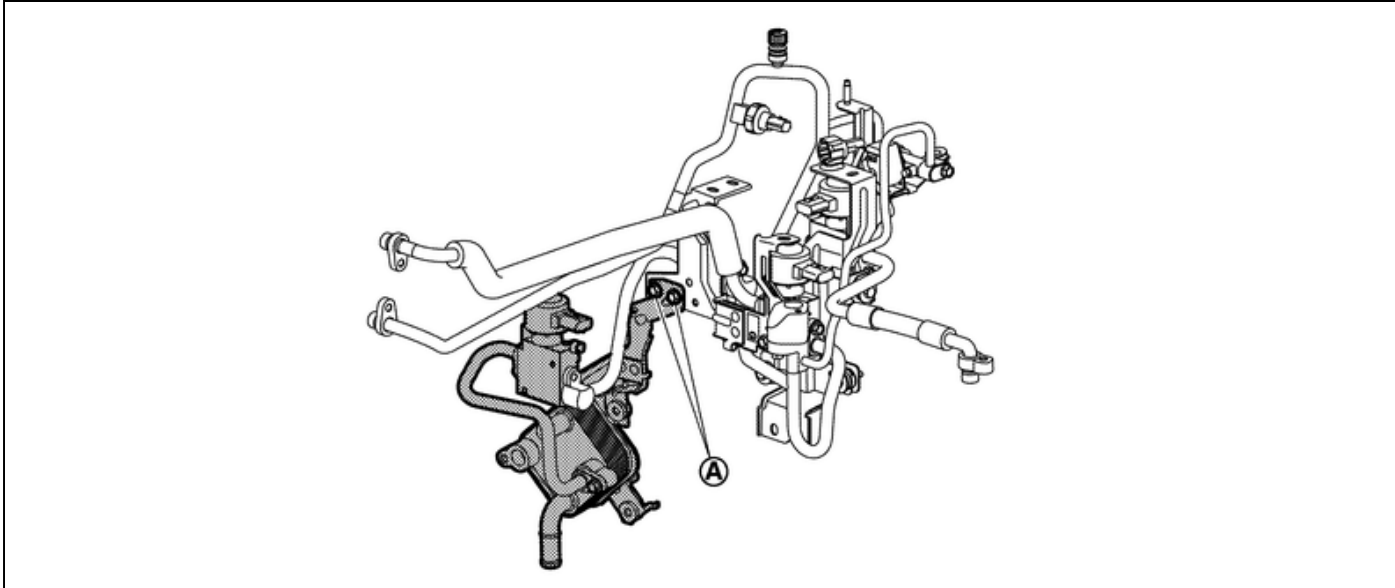
5 Remove expansion valve (battery chiller), high-pressure cooler pipe 6 and battery coolant chiller.

a Remove high-pressure cooler pipe 8 mounting bolt (A).



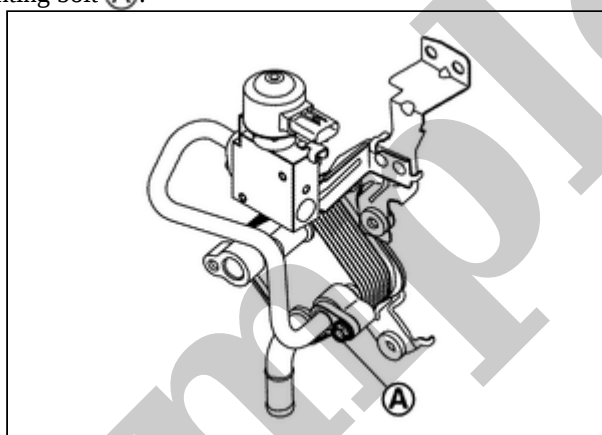
RPR-001931225-06-000376563

b Remove bracket 4 mounting bolts (A), and then remove bracket 4, battery coolant chiller, high-pressure cooler pipe 6 and expansion valve (battery chiller) as a set from bracket 3.



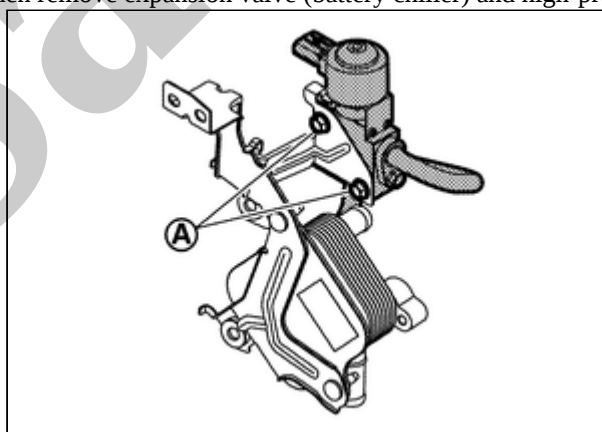
RPR-001931225-07-000376564

c Remove high-pressure pipe 6 mounting bolt (A).



RPR-001931225-19-000376565

d Remove mounting bolts (A), and then remove expansion valve (battery chiller) and high-pressure pipe 6 as a set.



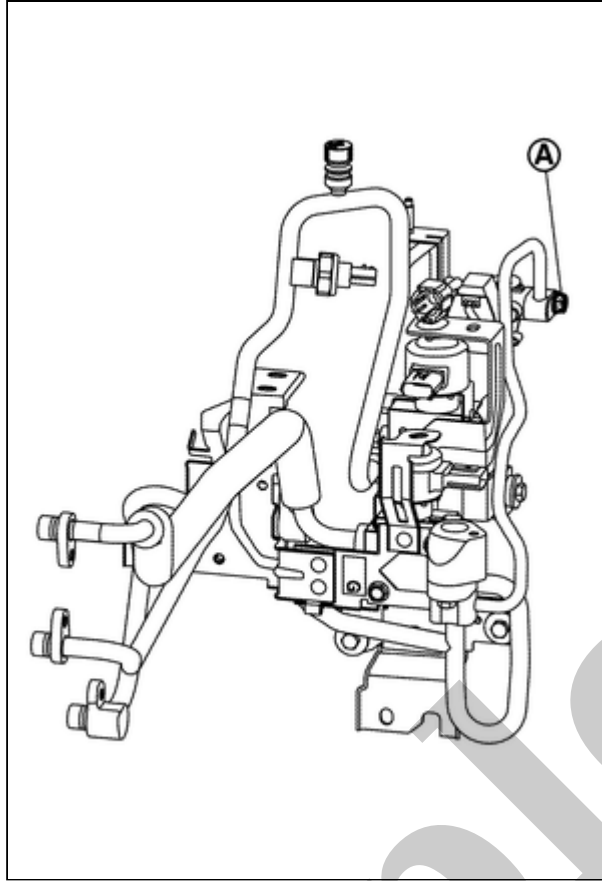
RPR-001931225-20-000376566

e Remove mounting bolt, and then remove high-pressure pipe 6 from expansion valve (battery chiller).

f Remove mounting nuts, and then remove battery coolant chiller from bracket 4.

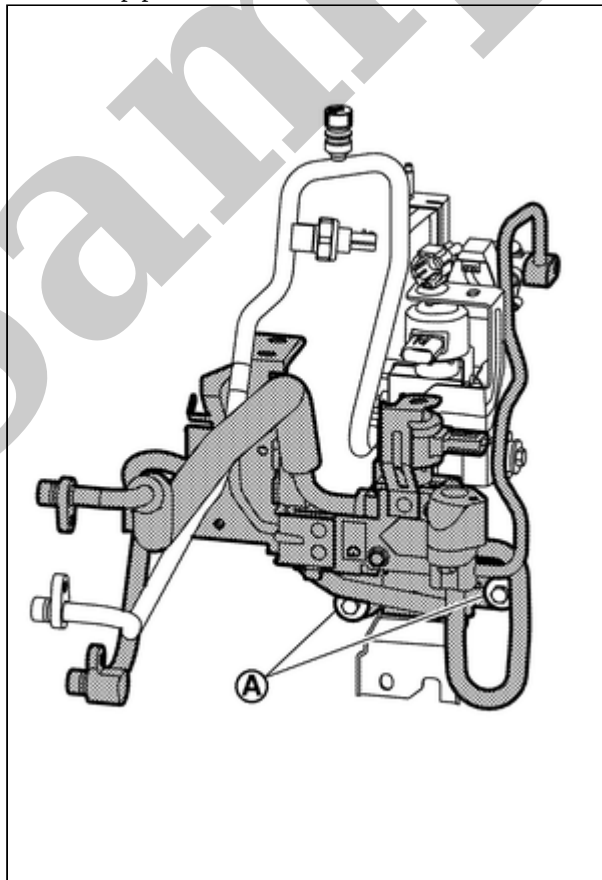
6 Remove electric expansion valve (cooler), high-pressure cooler pipe 2, high-pressure cooler pipe 3 and high-pressure cooler pipe 8.

a Remove high-pressure cooler pipe 3 mounting bolt (A).



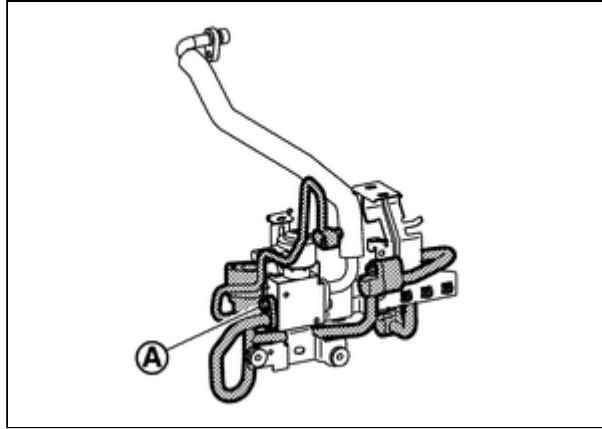
RPR-001931225-08-000376567

b Remove mounting bolts (A), and then remove bracket 3, electric expansion valve (cooler), high-pressure cooler pipe 2, high-pressure cooler pipe 3 and high-pressure cooler pipe 8 as a set from bracket 2.



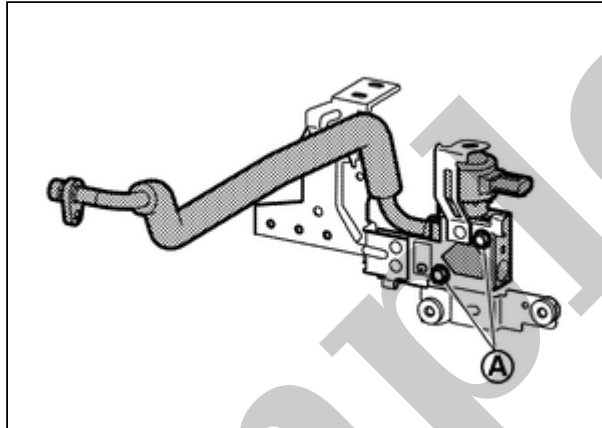
RPR-001931225-09-000376568

c Remove mounting bolt (A), and then remove high-pressure cooler pipe 3 and high-pressure cooler pipe 8 as a set from electric expansion valve (cooler) .



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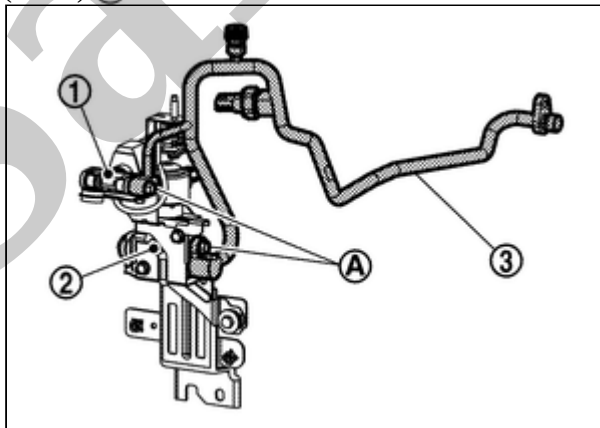
d Remove mounting bolts (A) and then remove electronic expansion valve (cooler) and high-pressure cooler pipe 2 as a set from bracket 3.



RPR-001931225-11-000376570

e Remove mounting bolt, and then remove high-pressure cooler pipe 2 from electronic expansion valve (cooler).

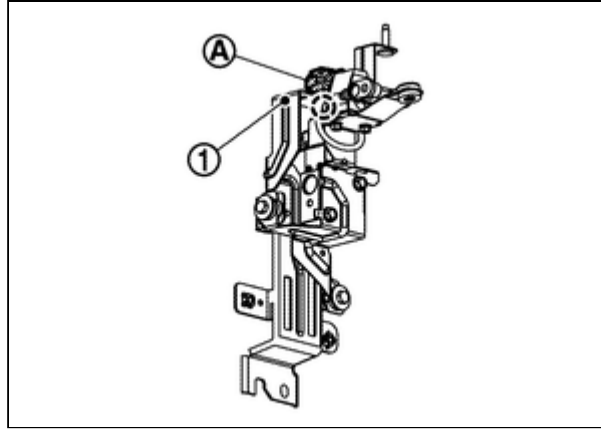
7 Remove mounting bolts (A), and then remove high-pressure cooler pipe 1 (3) from high pressure refrigerant channel switching valve (1) and electric expansion valve (heater) (2).



RPR-001931225-12-000363230

8 Remove electric expansion valve (heater) and high pressure refrigerant channel switching valve.

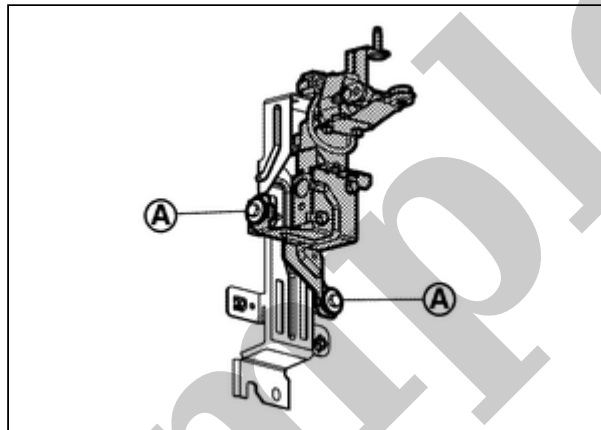
a Disengage fixing clip of high pressure refrigerant channel switching valve harness connector (A) from bracket 2 (1).



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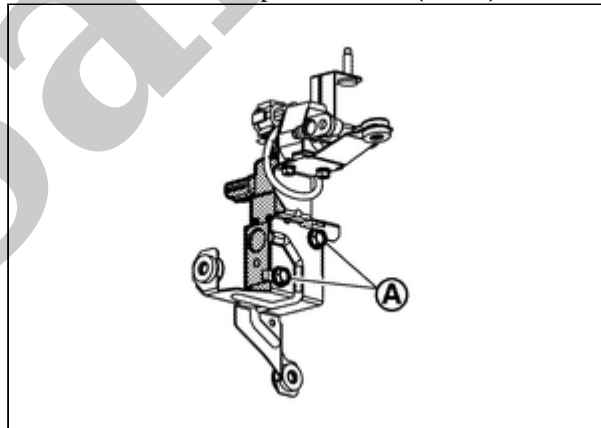
	: Clip
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b Remove mounting bolts (A), and then remove bracket 1, electronic expansion valve (heater), and high pressure refrigerant channel switching valve as a set from bracket 2.



RPR-001931225-14-000363232

c Remove mounting bolts (A), and then remove electronic expansion valve (heater) from bracket 1.



RPR-001931225-15-000363233

d Remove mounting bolts, and then remove high pressure refrigerant channel switching valve from bracket 1.

ASSEMBLY

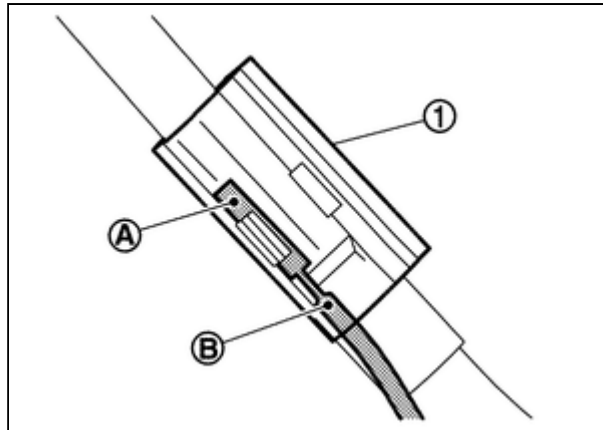
Note the following items, and then assemble in the reverse order of disassembly.

CAUTION:

- To prevent leakage of refrigerant, replace the O-ring with a new one. Apply a coat of electric compressor oil to the O-ring prior to installation.
- Assemble so that the pipe connection of A/C unit assembly and the pipe of high-pressure cooler pipe assembly match when high-pressure cooler pipe assembly is assembled.

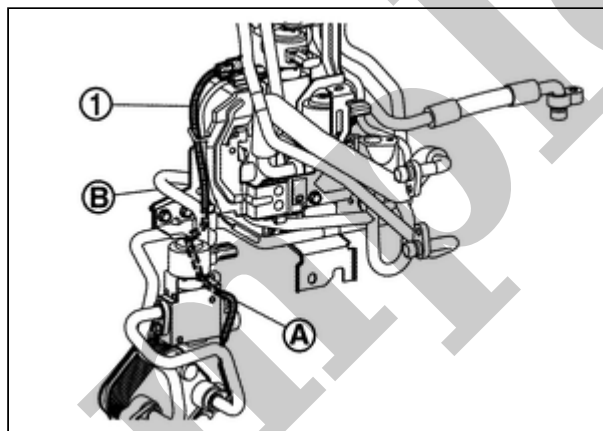
- Never reuse the foam seal that was once peeled off.

- When attach the foam seal ① attach the sensor part (A) and the harness near the sensor (B) together.



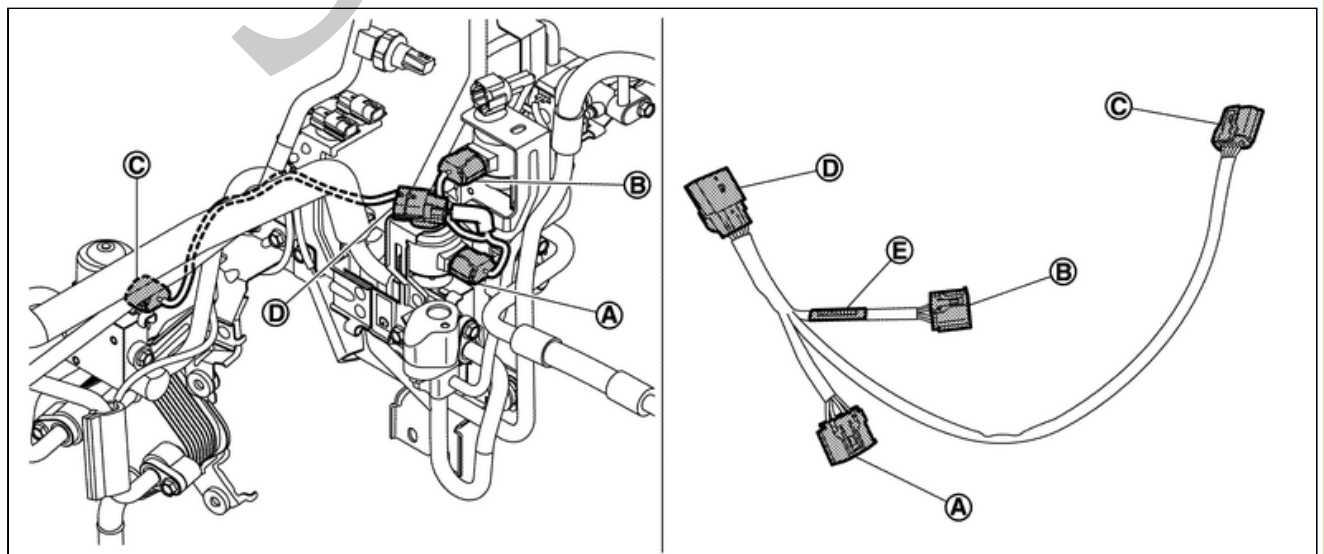
RPR-001931225-16-000384854

- As shown in the figure, wrap the harness part (A) of the refrigerant temperature sensor (battery chiller inlet) ① around the pipe part (B) so that it does not sag.



RPR-001931225-17-000376571

- Since the shape of electronic expansion valve (heater) is different from that of expansion valve (battery chiller) and electronic expansion valve (cooler), be careful when assembling.
- Each electronic expansion valve is nearby and the shape of connector is the same so do not accidentally connect sub harness connector. Connect sub harness connector referring to following.



RPR-001931225-18-000376572

Connector	Connection or installation destination	Harness length	Supplement
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Ⓐ	Electric expansion valve (cooler)	60 mm (2.36 in)	The harness is unlabeled. Never mistake it for connector Ⓑ.
Ⓑ	Electric expansion valve (heater)	75 mm (2.95 in)	The harness is labeled Ⓔ. Never mistake it for connector Ⓐ.
Ⓒ	Expansion valve (battery chiller)	125 mm (4.92 in)	The harness is the longest.
Ⓓ	Bracket 3	55 mm (2.17 in)	Unlike other connector shape there is a mounting clip.

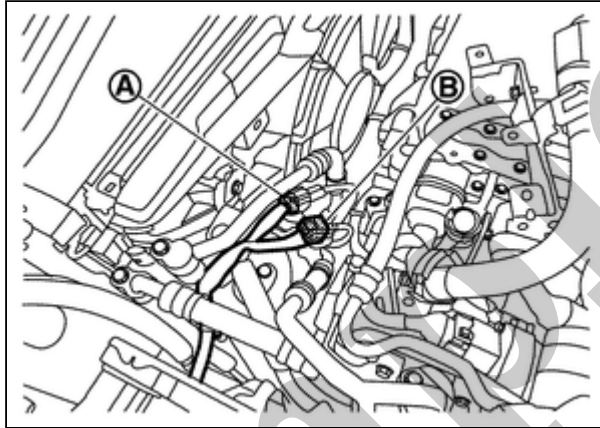
Sample

CAUTION:

Perform lubricant return operation before each refrigeration system disassembly. However, if a large amount of refrigerant or lubricant leak is detected, never perform lubricant return operation. Refer to [Perform Lubricant Return Operation](#).

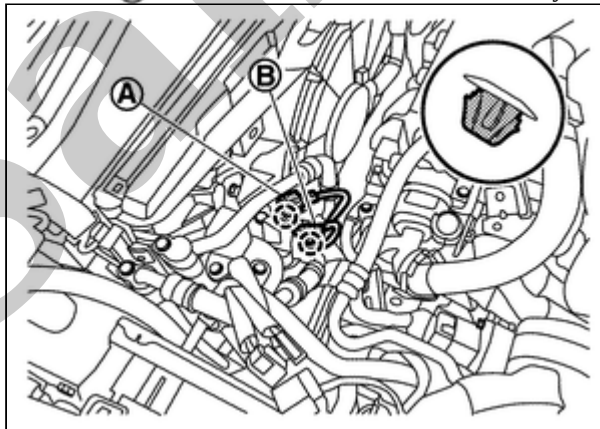
REMOVAL

- 1 Use a refrigerant collecting equipment (for HFO-1234yf) to discharge the refrigerant. Refer to [Recycle Refrigerant](#).
- 2 Remove low-pressure refrigerator pipe assembly. Refer to [Removal & Installation](#).
- 3 Disconnect vehicle harness connectors (A) and (B) from high pressure refrigerant channel switching valve harness connector and condenser discharge refrigerant temperature sensor harness connector.



RPR-001931227-05-000416823

- 4 Remove connector fixing clips of high pressure refrigerant channel switching valve harness connector (A) and condenser discharge refrigerant temperature sensor harness connector (B) from bracket of accumulator assembly.

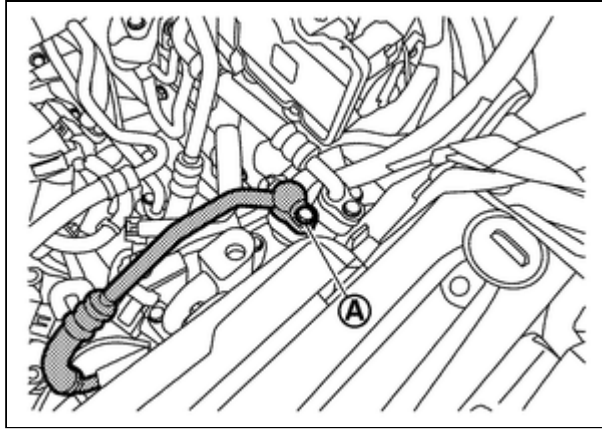


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- 5 Remove mounting bolt (A), and then disconnect high-pressure flexible pipe assembly from cooler pipe A.

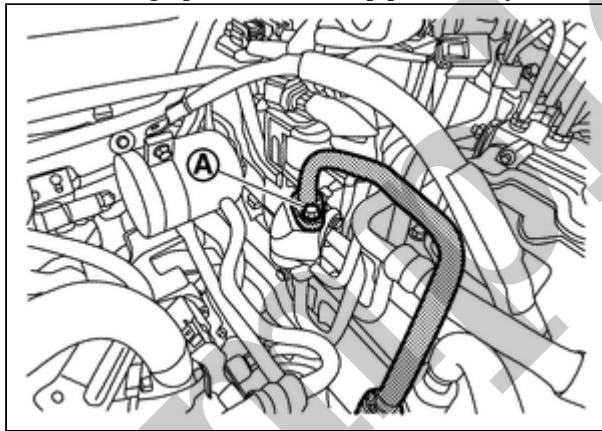


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CAUTION:

Cap or wrap the joint of the A/C piping with suitable material such as vinyl tape to avoid the entry of air.

6 Remove mounting bolt (A), and then disconnect high-pressure flexible pipe assembly from high-pressure cooler pipe assembly.

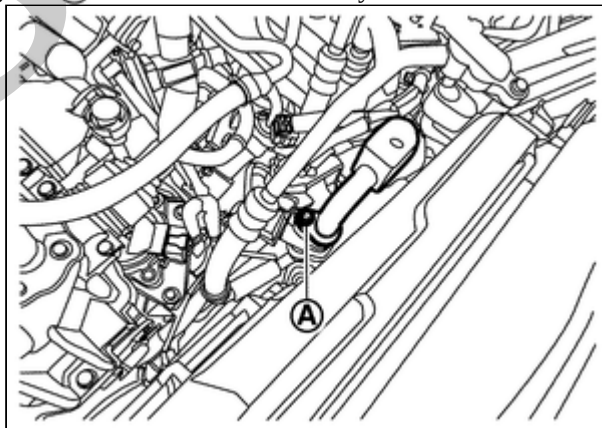


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CAUTION:

Cap or wrap the joint of the A/C piping with suitable material such as vinyl tape to avoid the entry of air.

7 Remove low-pressure pipe mounting bolt (A) of Accumulator assembly.



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8 Remove low pressure refrigerant channel switching valve and high-pressure flexible pipe assembly as a set from vehicle.

CAUTION:

Cap or wrap the joint of the A/C piping with suitable material such as vinyl tape to avoid the entry of air.

9 Remove mounting bolt (A) and then disconnect high-pressure flexible pipe assembly from low pressure refrigerant channel switching valve.