

January 17, 2018

07036 Version 1

## A/C High-Pitched Whine

### AFFECTED VEHICLES

Year	Model	Trim	VIN range
2014–17	RLX	ALL except hybrid	ALL

### SYMPTOM

After the vehicle has been running for approximately 15 minutes with the A/C on, a whine can be heard that changes at different rpms.

### POSSIBLE CAUSES

A whine from the A/C compressor is entering the cabin via the A/C refrigerant lines.

### CORRECTIVE ACTION

Replace the evaporator, and add a rubber damper sleeve on the A/C suction line.

### REQUIRED MATERIALS

Part Name	Part Number	Quantity
Refrigerant (as needed beyond system recovery amount)	Commercially available	
PAG Oil 40 ml (plus any oil removed during system recovery) (1 can contains 120ml and will repair 3 vehicles)	38897-PR7-A01AH	1

NOTE: Refer to service bulletin 16-050 *Air Conditioning Refrigerant and PAG/POE Oil for Warranty Repair Claim submission instructions*.

### PARTS INFORMATION

Part Name	Part Number	Quantity
Evaporator	80211-TY2-A02	1
A/C Rubber Damper Sleeve Kit	80010-TY2-305	1
O-Ring (5/8")	80871-SN7-003	1
O-Ring (8 mm)	80873-SN7-003	1
Seal	79021-TY2-A01	1

**CLIENT INFORMATION:** The information in this bulletin is intended for use only by skilled technicians who have the proper tools, equipment, and training to correctly and safely maintain your vehicle. These procedures should not be attempted by "do-it-yourselfers," and you should not assume this bulletin applies to your vehicle, or that your vehicle has the condition described. To determine whether this information applies, contact an authorized Acura automobile dealer.

## WARRANTY CLAIM INFORMATION

The normal warranty applies.

Operation Number	Description	Flat Rate Time	Defect Code	Symptom Code	Template ID	Failed Part Number
6151C9	Replace the evaporator and add the rubber damper sleeve kit. (includes refrigerant recovery, evac and recharge.)	2.9 hrs	07409	04201	B17032A	80211-TY2-A01

Skill Level: Repair Technician

## INSPECTION PROCEDURE

1. Start the vehicle, and let it idle for 15 minutes.
2. Turn off the audio system, set the A/C temperature on both driver and passenger side to LO, and set the fan speed to 1.
3. Increase the rpm to around 1900-2300 rpm, and listen for a high-pitched whine, or ringing sound coming from the vents.
4. Verify if the whine or ringing stops when the A/C is turned off.  
*Does the whine or ringing stop when the A/C is turned off?*  
Yes – Go to the REPAIR PROCEDURE.  
No – This bulletin does not apply. Follow normal troubleshooting procedures.

## REPAIR PROCEDURE

If you need more detail for steps 1 through 19, refer to the service information.

NOTE: SRS components are located in this area. Review the SRS component locations and the precautions and procedures before doing repairs or service.

1. Use a recovery/recycling/recharging station to recover the refrigerant from the A/C system. Note the amount of refrigerant oil that is removed during the refrigerant recovery.
2. Remove the evaporator.
3. Remove the strut brace.
4. Remove the under hood A/C lines at the connection to the expansion valve.
5. Remove the dashboard side cover.
6. Remove the passenger's dashboard trim panel.
7. Remove the passenger's dashboard undercover.
8. Remove the glove box.
9. Remove the blower unit.
10. Remove the evaporator core cover and seal.
11. Remove the evaporator core.
12. Remove the evaporator temperature sensor and the clip.
13. Remove the expansion valve.
14. Install the expansion valve with **new** o-rings lubricated with PAG oil.
15. Install the evaporator temperature sensor.

16. Pour 40 ml of PAG oil for the evaporator into the evaporator plus the amount of oil removed during the refrigerant recovery. Note that total amount of PAG for the warranty clerk.

NOTE: Refer to service bulletin 16-050 *Air Conditioning Refrigerant and PAG/POE Oil for Warranty Repair Claims*.

17. Install the evaporator with **new** o-rings lubricated with PAG oil.
18. Install evaporator core cover with **new** seal.
19. Install all the removed parts in reverse order, except the strut brace.

NOTE: The strut brace will be installed after the rubber damper sleeve kit is installed.

20. Evacuate and charge the A/C system. You will most likely just be re-installing refrigerant removed. Note any small amount of extra refrigerant that was needed compared to what was recovered in step 1 for the warranty clerk.

## INSTALLING THE RUBBER DAMPER SLEEVE KIT

1. Clean around the outside of the suction pipe (larger diameter pipe) so that the foam sheet will stick.



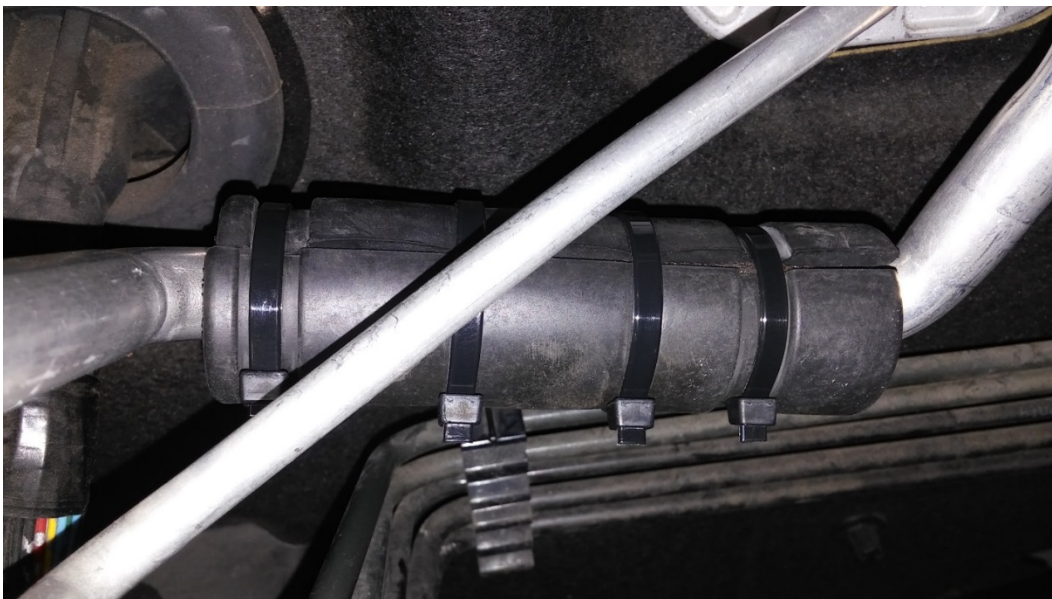
2. Wrap the pipe with one foam sheet as shown (long edge along the pipe).



3. Wrap the second foam sheet over the first foam to make a 2<sup>nd</sup> layer.
4. Put the rubber sleeve over the foam as shown below, making sure that the tapered end of the hose rests against the bend in the pipe.



5. Secure the rubber hose with the 4 zip ties as shown below.



6. Install the strut brace.
7. Make sure the whine is gone and the A/C system works correctly.

END