

Subject

# Air Conditioning System - Improved Component Inspection

Market

USA

Service Category

Vehicle Interior

Section

Heating/Air Conditioning

Applicability

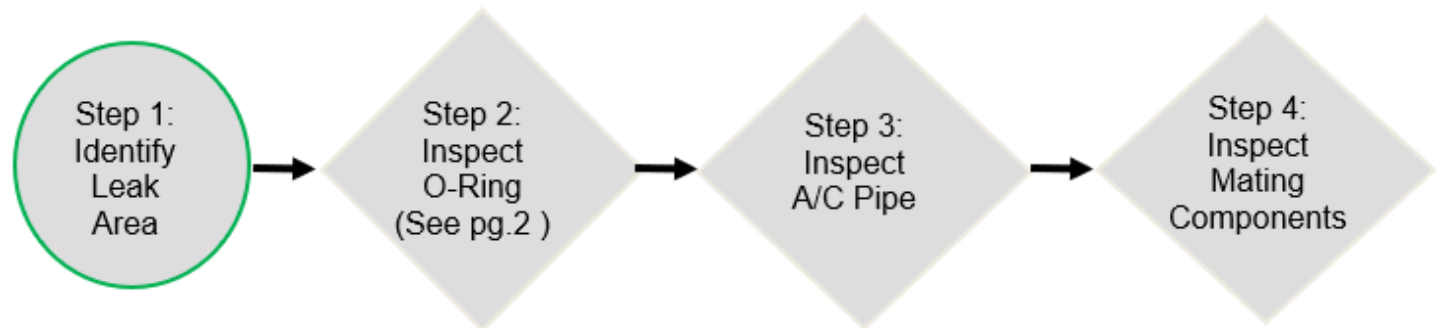
Toyota

## APPLICABLE VEHICLES

2015-2020	Highlander	2015-2020	Prius
2015-2020	Tundra	2015-2020	Sienna
2016-2020	Mirai	2015-2020	Land Cruiser
2019-2020	Corolla Hatchback	2015-2020	4Runner
2015-2020	Sequoia	2016-2020	RAV4 HV
2015-2020	Avalon	2015-2016	Venza
2018	Mirai (Canada)	2015-2019	Yaris
2017-2020	Prius Prime	2017-2020	86
2015-2020	Corolla	2015-2020	Camry
2015-2020	Avalon HV	2020	Corolla HV
2015-2018	Prius V	2015-2020	Hilux
2015-2020	RAV4	2017-2018	iM
2015	Prius PHV	2015-2020	Avanza
2015-2020	Prius C	2017-2020	Yaris THAI-Prod
2015-2020	Highlander HV	2015-2020	Camry HV

## CONDITION

In certain cases of leaking air conditioning systems, the root cause of the leak is inadvertently overlooked, causing a repeat repair. To improve customer satisfaction and repair A/C system leaks in one dealer visit, Toyota has developed a set of guidelines for evaluating A/C system components.



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## RECOMMENDATIONS

### 2) Inspect for O-ring Abnormality

- Remove the O-ring from pipe/component for inspection.
- Using a plastic pick tool to remove O-ring and prevent damage to mating part.



Use a non-metallic tool for O-ring removal.

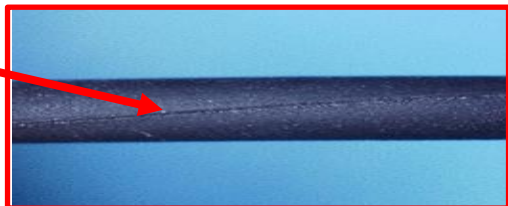


Using a metallic tool could result in damage to other components

**OK Part\*** - Line at middle of O-ring is straight with no deformation. No tears, or crushed areas.  
 \*O-rings should be replaced anytime they are removed from a pipe/component to prevent leaks and foreign material.

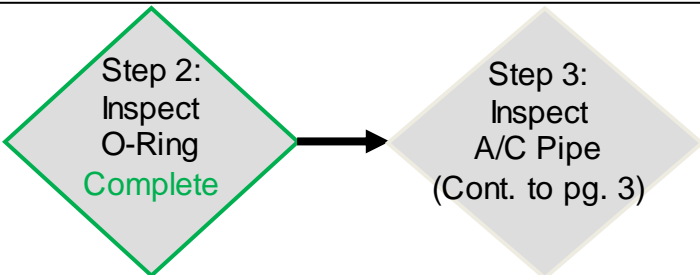
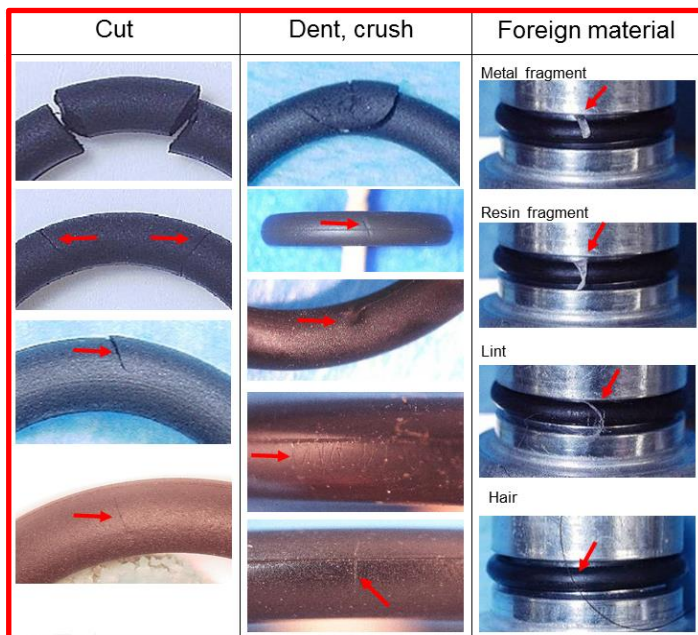


**Twisted O-Ring – No Good Part**  
 Line at middle of O-ring is not straight.



**Cut/Dent/Crush – No Good Part**  
 O-ring damaged by another component. Replace O-ring, proceed with A/C Pipe Inspection.

**Foreign Material– No Good Part**  
 O-ring contaminated by material outside A/C system. Replace O-ring, proceed with A/C Pipe inspection.



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**3) - Inspect for A/C Pipe Abnormality**

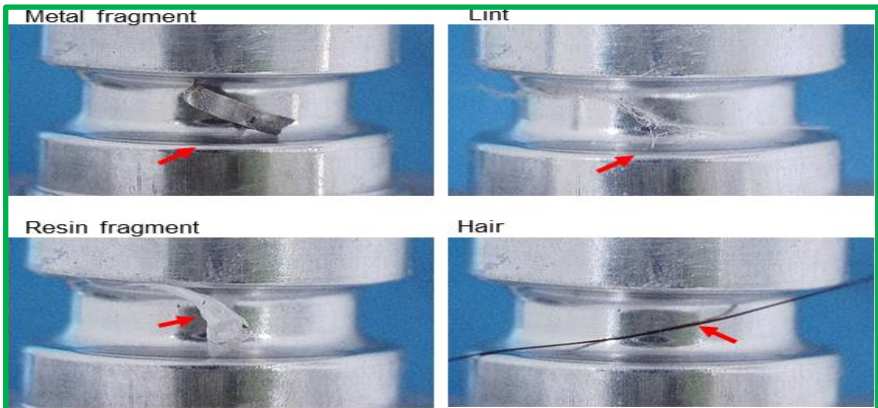
**OK Part** - Light scratching parallel with O-ring groove. This is caused by normal part processing. Pipe is ok to reuse.



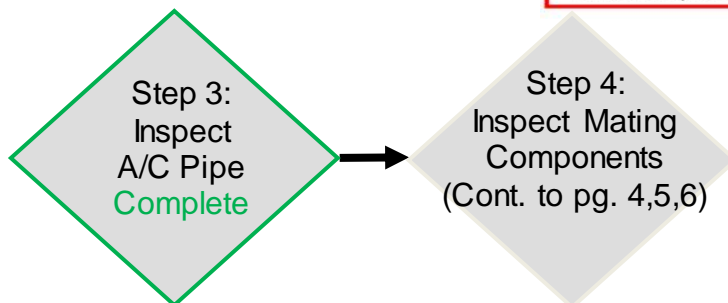
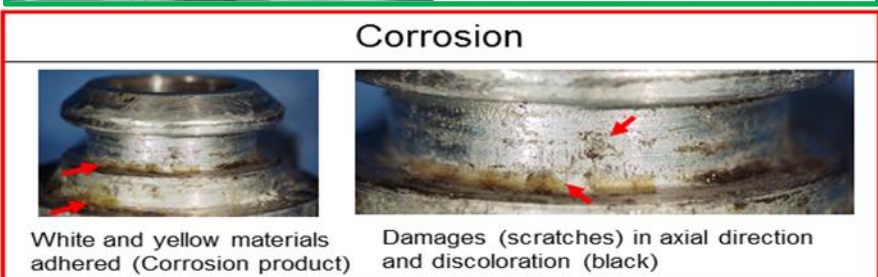
**Damage – No Good Part**  
Pipe is damaged due to deep scratching or gouge of base metal. Pipe replacement is recommended to prevent repeat repair.



**Foreign Material – OK Part**  
Pipe has foreign material stuck to it. Material can be cleaned off using a non-metallic tool and the pipe is ok to be reused.



**Corrosion – No Good Part**  
Pipe is damaged due to corrosion of base material. Pipe replacement is recommended to prevent repeat repair.



- 4a - Compressor Inspection – Pg.4
- 4b - Expansion Valve – Pg. 5
- 4c - Condenser Inspection – Pg.6



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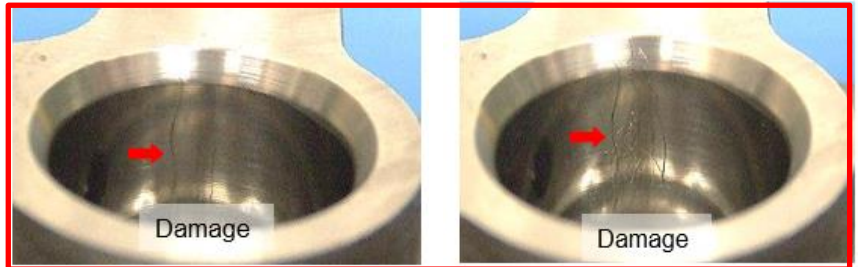
**4a) - Inspect for A/C Compressor Abnormality**

**OK Part** - Light scratching parallel with O-ring groove.  
This is caused by normal part processing. Compressor is ok to reuse.



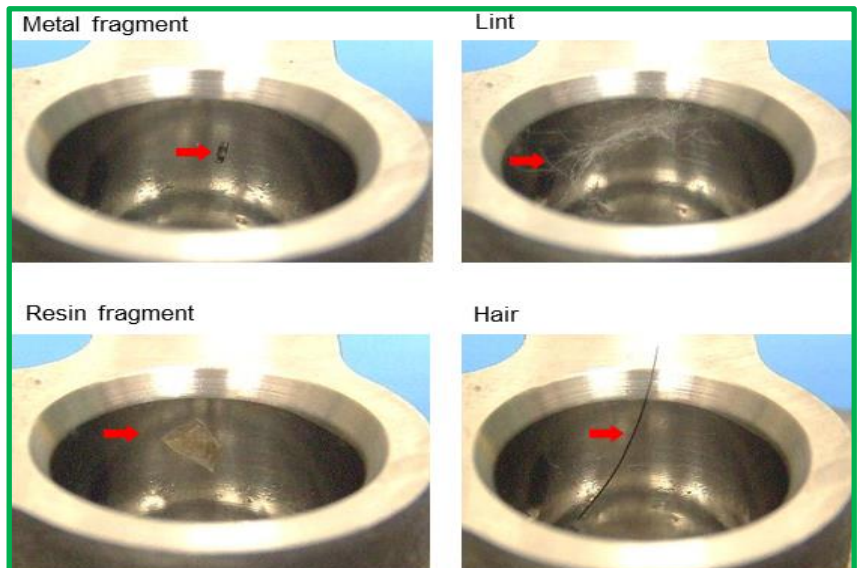
**Damage – No Good Part**  
Compressor seal bore is damaged due to deep scratching perpendicular to O-ring groove.

Compressor replacement is recommended to prevent repeat repair.



**Foreign Material – OK Part**  
Compressor has foreign material stuck to seal bore.

Material can be **carefully** cleaned off using a non-metallic tool and the compressor is ok to be reused.



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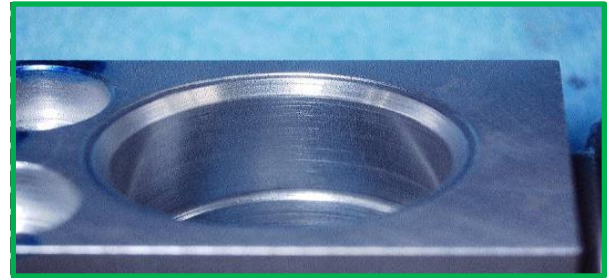
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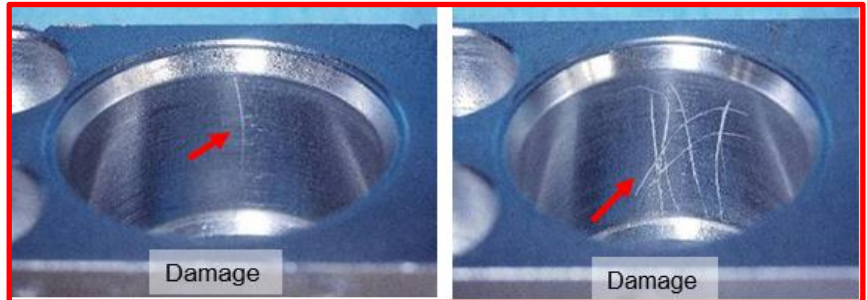
**4b) - Inspect for Expansion Valve Abnormality**

**OK Part** - Light scratching parallel with O-ring groove. This is caused by normal part processing. Expansion valve is ok to reuse.



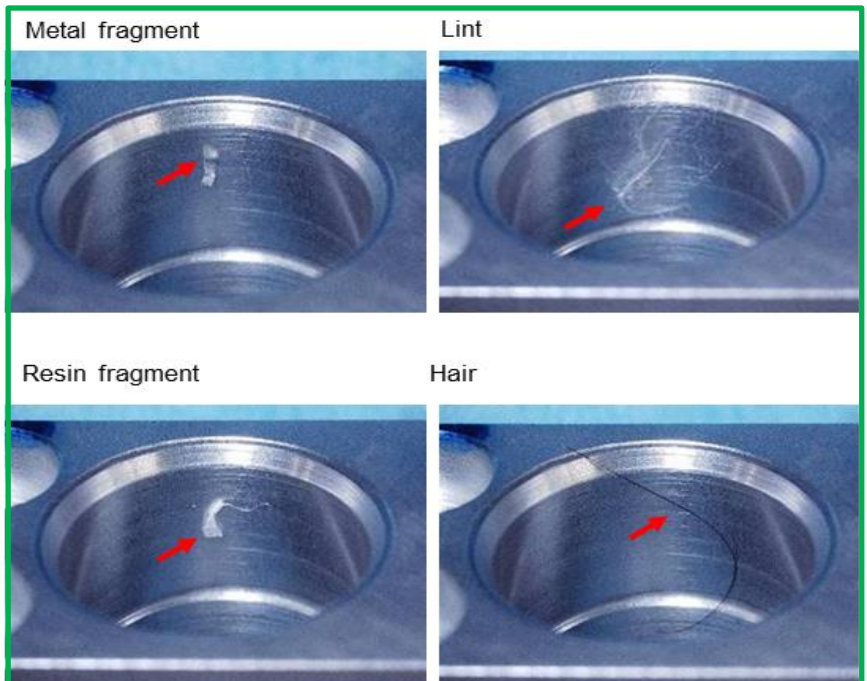
**Damage – No Good Part**  
Expansion valve seal bore is damaged due to deep scratching perpendicular to O-ring groove.

Expansion valve replacement is recommended to prevent repeat repair.



**Foreign Material – OK Part**  
Expansion Valve has foreign material stuck to seal bore.

Material can be **carefully** cleaned off using a non-metallic tool and the expansion valve is ok to be reused.



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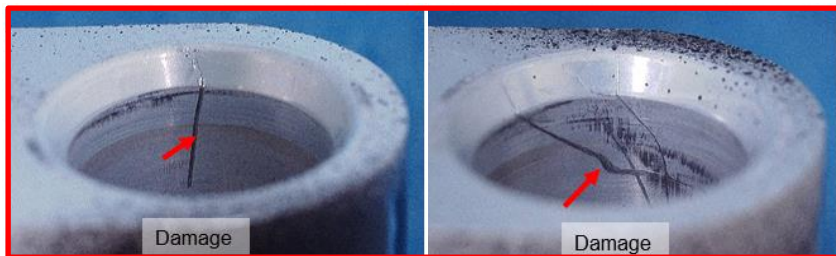
**4c) - Inspect for Condenser Abnormality**

**OK Part** - Light scratching parallel with O-ring groove. This is caused by normal part processing. Condenser is ok to reuse.



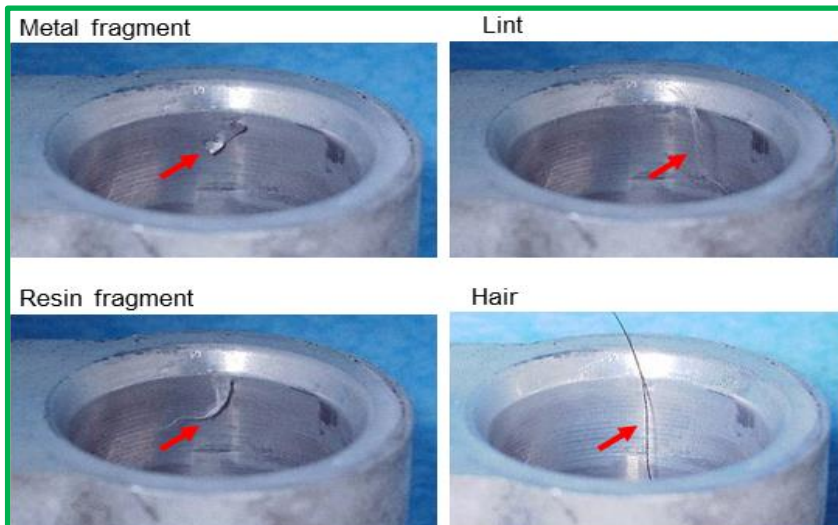
**Damage – No Good Part**  
Condenser seal bore is damaged due to deep scratching perpendicular to O-ring groove.

Condenser replacement is recommended to prevent repeat repair.



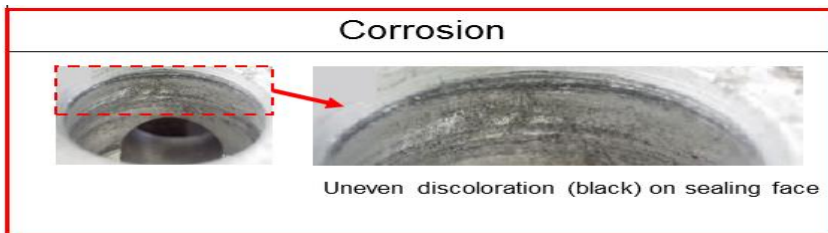
**Foreign Material – OK Part**  
Condenser has foreign material stuck to seal bore.

Material can be **carefully** cleaned off using a non-metallic tool and the condenser is ok to be reused.



**Corrosion – No Good Part**  
Seal bore is damaged due to corrosion of base material.

Condenser replacement is recommended to prevent repeat repair.



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**LINK REFERENCES**

This Tech Tip does not contain any link references