

Subject

Air Conditioning System - Improved Component Inspection

Market

USA

Service Category

Vehicle Interior

Section

Heating/Air Conditioning

Applicability

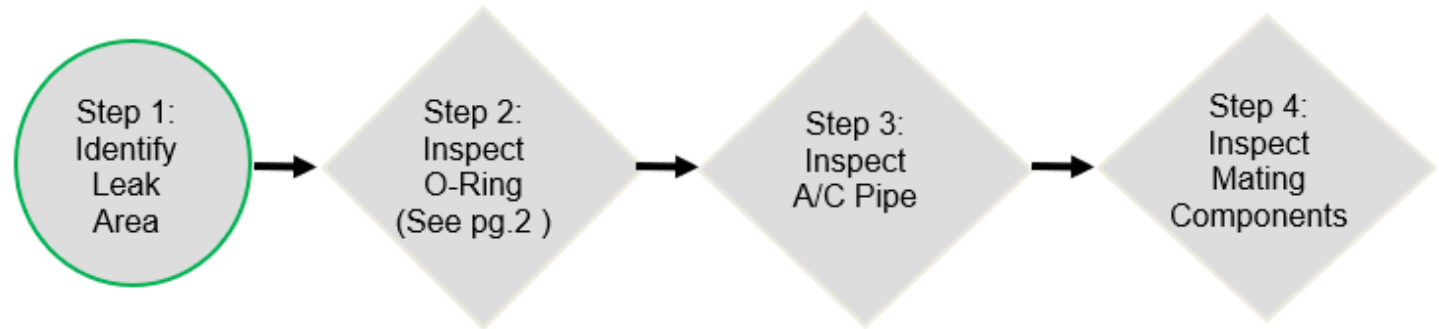
Toyota

APPLICABLE VEHICLES

2016-2021	Mirai	2015-2021	Land Cruiser
2015	Prius PHV	2015-2021	Hilux
2015-2018	Prius V	2017-2018	iM
2015-2021	Tundra	2015-2021	Avanza
2020-2021	Corolla HV	2017-2021	Yaris THAI-Prod
2015-2021	RAV4	2019-2021	Corolla Hatchback
2016-2021	RAV4 HV	2015-2021	Camry HV
2015-2021	Prius C	2015-2020	Sienna
2015-2021	Camry	2015-2021	Prius
2018	Mirai (Canada)	2015-2021	Avalon
2015-2021	Avalon HV	2015-2021	Highlander
2015-2019	Yaris	2017-2020	86
2015-2021	Highlander HV	2015-2021	4Runner
2015-2016	Venza	2017-2021	Prius Prime
2015-2021	Corolla	2015-2021	Sequoia

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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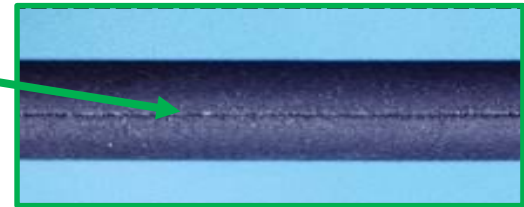
RECOMMENDATIONS

2) Inspect for O-ring Abnormality

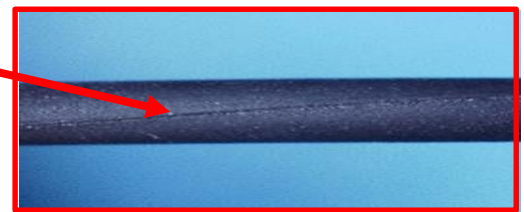
- Remove the O-ring from pipe/component for inspection.
- Using a plastic pick tool to remove O-ring and prevent damage to mating part.



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.

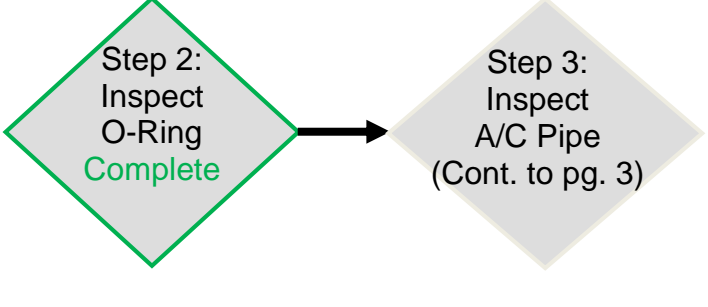
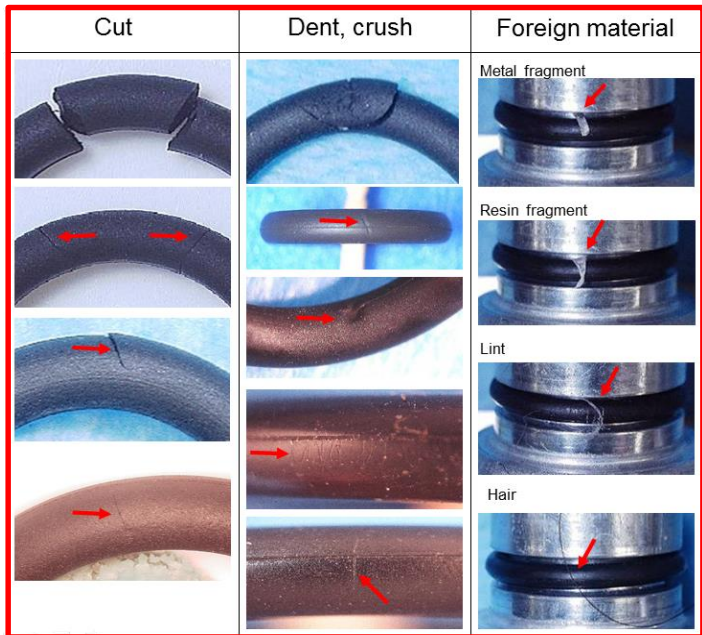


Twisted O-Ring – No Good Part
 Line at middle of O-ring is not straight.



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

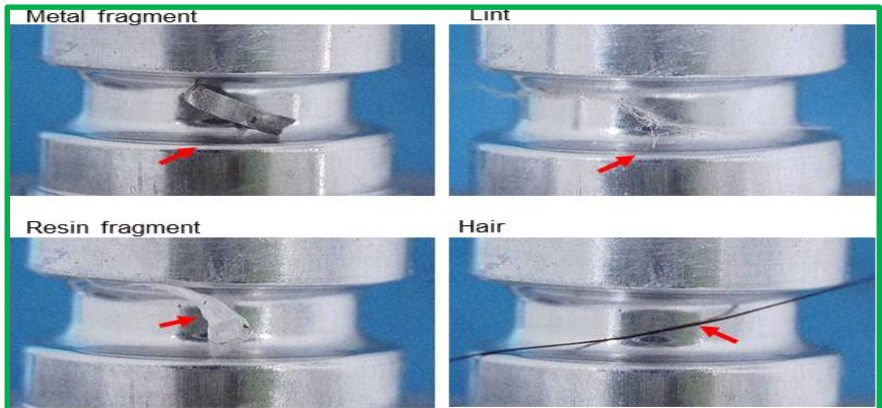
OK Part - Light scratching parallel with O-ring groove. This is caused by normal part processing. Pipe is ok to reuse.



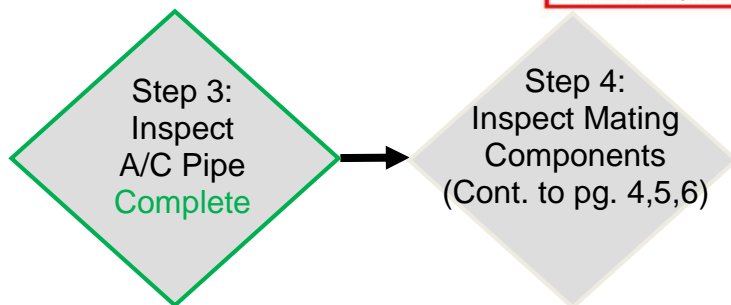
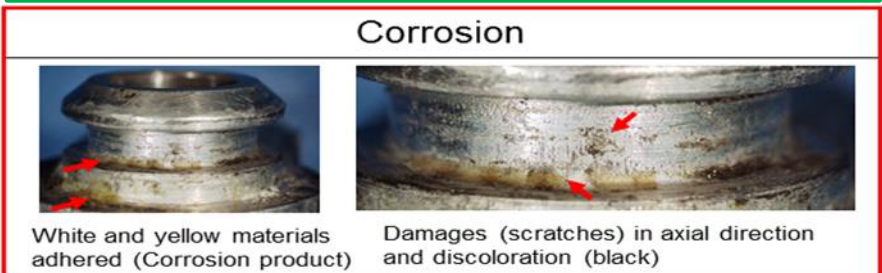
Damage – No Good Part
Pipe is damaged due to deep scratching or gouge of base metal. Pipe replacement is recommended to prevent repeat repair.



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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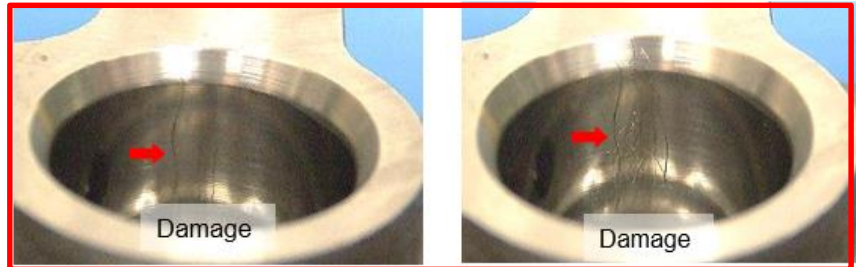
4a) - Inspect for A/C Compressor Abnormality

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



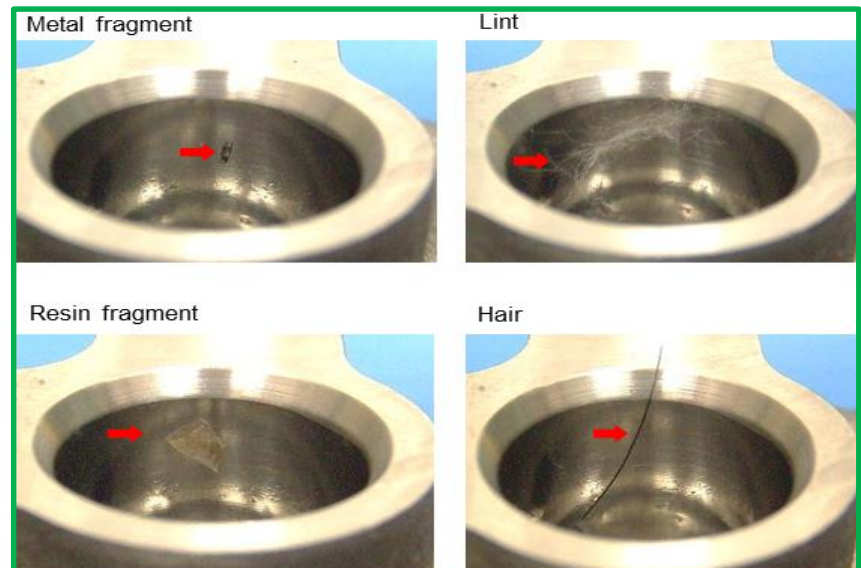
Damage – No Good Part
Compressor seal bore is damaged due to deep scratching perpendicular to O-ring groove.

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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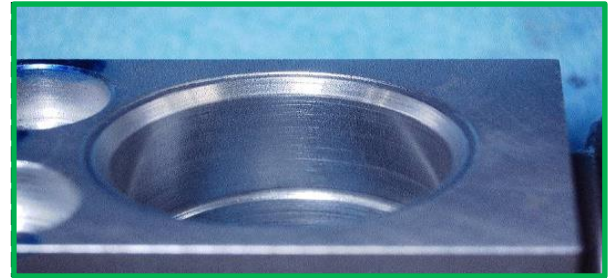
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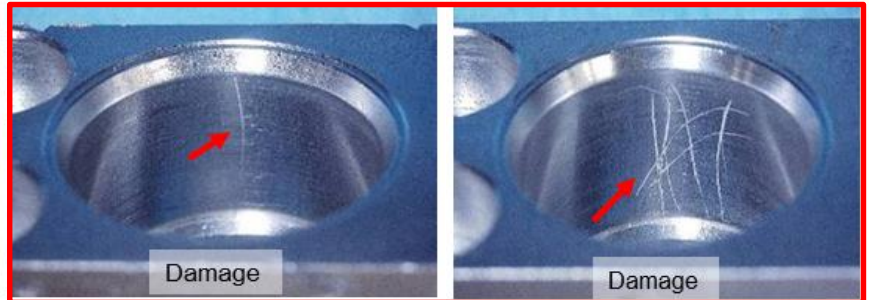
4b) - Inspect for Expansion Valve Abnormality

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



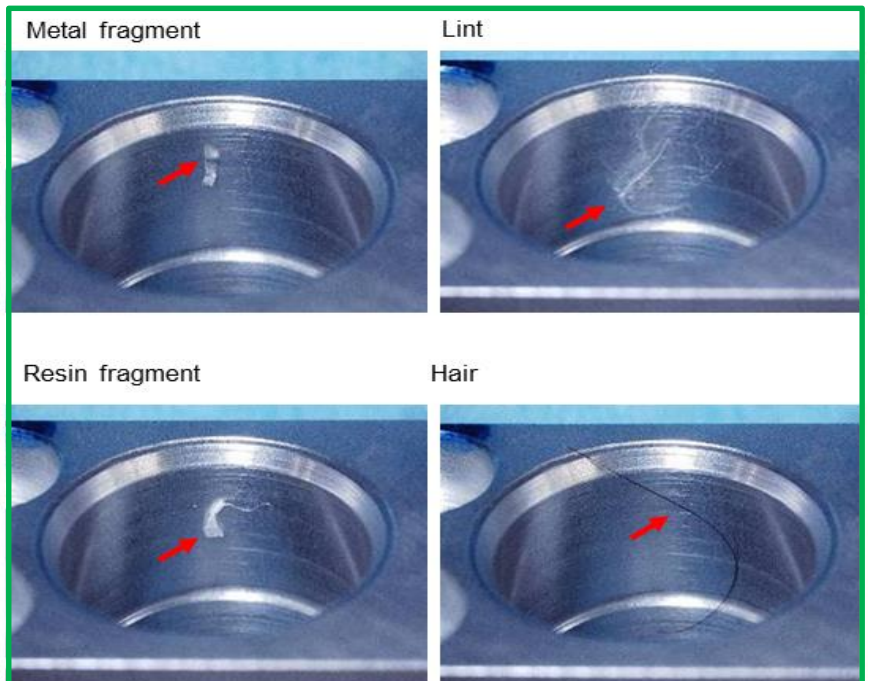
Damage – No Good Part
Expansion valve seal bore is damaged due to deep scratching perpendicular to O-ring groove.

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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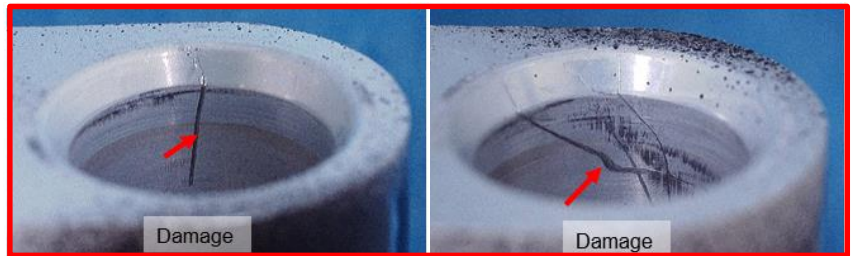
4c) - Inspect for Condenser Abnormality

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



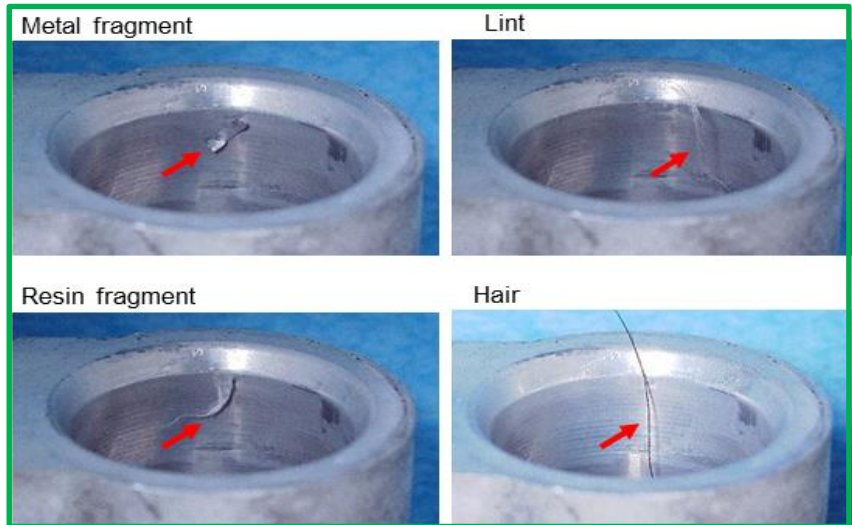
Damage – No Good Part
Condenser seal bore is damaged due to deep scratching perpendicular to O-ring groove.

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