### Application Vehicles

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### 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.

1. **Step 1:** Identify Leak Area
2. **Step 2:** Inspect O-Ring (See pg.2)
3. **Step 3:** Inspect A/C Pipe
4. **Step 4:** Inspect Mating Components
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.

Step 2: Inspect O-Ring
Step 3: Inspect A/C Pipe (Cont. to pg. 3)
### 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.

### Step 4:
Inspect Mating Components
(Cont. to pg. 4,5,6)

- 4a - Compressor Inspection – Pg.4
- 4b - Expansion Valve – Pg. 5
- 4c - Condenser Inspection – Pg.6
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.
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.
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.
Air Conditioning System – Improved Component Inspection

Applicability
Lexus

This Tech Tip does not contain any link references