

A/C COMPRESSOR REFRIGERANT OIL CHECKING

1998 Toyota Supra

1998 A/C Compressor Refrigerant Oil Checking

Avalon, Camry, Celica, Corolla, Land Cruiser, RAV4, Sienna, Supra, Tacoma, Tercel, T100 & 4Runner

* PLEASE READ THIS FIRST *

NOTE: Always refer to underhood A/C specification label in engine compartment or A/C compressor label while servicing A/C system. If engine compartment/compressor label specifications differ from specifications in this article, use underhood/compressor label specifications.

A/C COMPRESSOR APPLICATIONS

A/C COMPRESSOR APPLICATION TABLE

Application	Compressor
Avalon	Nippondenso 10PA17C 10-Cyl.
Camry	Nippondenso 10PA17C 10-Cyl.
Celica	Nippondenso 10PA17C 10-Cyl.
Corolla	Nippondenso 10PA15 10-Cyl.
Land Cruiser	Nippondenso 10PA17 10-Cyl.
RAV4	Nippondenso Scroll
Sienna	Nippondenso 10PA17 10-Cyl.
Supra	Nippondenso 10-Cyl.
Tacoma	Nippondenso 10PA17 10-Cyl.
Tercel	Matsushita Scroll
T100	Nippondenso 10PA15 10-Cyl.
4Runner	Nippondenso 10PA17 10-Cyl.

REFRIGERANT OIL & REFRIGERANT CAPACITY SPECIFICATIONS

NOTE: DO NOT exceed A/C system refrigerant oil capacity when servicing system.

REFRIGERANT OIL & R-134a REFRIGERANT CAPACITY TABLE

Application	(1) Oil Ounces	Refrigerant Ounces
Avalon	4.1	28.2-31.7
Camry	4.9	26.5-30.0
Celica	4.1	21.2-24.7
Corolla	4.1	21.2-24.7
Land Cruiser		
With Rear A/C	(2)	35.3-38.8
Without Rear A/C	(2)	26.5-30.0
RAV4 & Supra	4.1	22.9-26.5
Sienna		
Without Rear A/C	4.1	26.5-30.0
With Rear A/C (4-Door)	4.1	42.3-45.9
With Rear A/C (5-door)	4.1	45.9-49.4
Tacoma	(2)	19.4-22.9
Tercel	4.1	14.1-17.6
T100	(2)	21.2-24.7

4Runner (2) 21.2-24.7

- (1) - Compressor refrigerant oil capacity.
 - (2) - Information not available at time of publication.
Check underhood A/C system specification label or A/C
compressor label.
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REFRIGERANT OIL

Only NEW, moisture-free refrigerant oil should be used in the air conditioning system. This oil is highly refined and dehydrated so moisture content is less than 10 parts per million. The oil container must be tightly closed at all times when not in use, or moisture from the air will be absorbed into the refrigerant oil.

SERVICING PRECAUTIONS

DISCHARGING SYSTEM

Discharge A/C system, using approved refrigerant recovery/recycling equipment that meets SAE J2210 requirements. Always follow recovery/recycling equipment manufacturer's instructions. After refrigerant recovery process is completed, replace any refrigerant oil removed with the same amount of NEW refrigerant oil.

DISCONNECTING LINES & FITTINGS

After system is discharged, carefully clean area around all fittings to be opened. Always use 2 wrenches when tightening or loosening fittings. Some refrigerant lines are connected with a coupling. Special tools may be required to disconnect lines. Cap or plug all openings as soon as lines are removed. DO NOT remove shipping caps from replacement components until ready to install.

CONNECTING LINES & FITTINGS

NOTE: Ensure all replacement component connections match connections of system being worked on.

Always use a NEW gasket or "O" ring when connecting lines or fittings. Coat "O" ring with NEW refrigerant oil and ensure it is not twisted during installation. Always use two wrenches to prevent damage to lines and fittings.

PLACING SYSTEM IN OPERATION

After component service or replacement has been completed and all connections have been made, thoroughly evacuate system with a vacuum pump. Charge system with proper amount of refrigerant and perform leak test. See REFRIGERANT OIL & R-134a REFRIGERANT CAPACITY table for system capacities. Ensure there are no leaks at any fitting that has been opened. After system has been leak tested, check system performance.

MATSUSHITA SCROLL

Tercel

Discharge A/C system, using approved refrigerant recovery/recycling equipment. Remove compressor from vehicle. Drain oil from

compressor through inlet and outlet ports. Fill compressor with 3.4-4.1 ounces of NEW refrigerant oil through suction port. Add 0.4 ounces of NEW refrigerant oil when replacing receiver-drier. Add 1.4 ounces of NEW refrigerant oil when replacing condenser or evaporator.

NIPPONDENSO SCROLL & 10-CYL.

All Except Tercel

After refrigerant recovery process is completed, drain old compressor and measure amount of refrigerant oil removed. Add same amount drained from old compressor to replacement compressor. When replacing components, add specified amounts of NEW refrigerant oil. See COMPONENT REFRIGERANT OIL CAPACITIES (NIPPONDENSO) table.

COMPONENT REFRIGERANT OIL CAPACITIES (NIPPONDENSO)

Component	Ounces
Compressor	
Avalon & Camry	4.1
Celica & Corolla	4.1
Land Cruiser	(1)
RAV4 & Tercel	4.1
Sienna & Supra	4.1
Tacoma & T100	(1)
4Runner	(1)
Condenser	
Avalon	(3) 1.4-1.7
Camry	(2) 1.4-1.7
Celica	(2) 1.4
Corolla & Land Cruiser	(3) 1.4
RAV4 & Supra	(3) 1.4
Sienna	(2) 1.4-1.7
Tacoma & T100	(3) 1.4
Tercel	(2) 1.4
4Runner	(2) 1.4-1.7
Evaporator	
Avalon	(3) 1.4-1.7
Camry	(2) 1.4-1.7
Celica	(2) 1.4
Corolla & Land Cruiser	(3) 1.4
RAV4 & Supra	(3) 1.4
Sienna	(4) 1.4
Tacoma	(3) 1.4-1.7
Tercel	(2) 1.4
T100	(3) 1.4
4Runner	(2) 1.4-1.7
Receiver-Drier	
Avalon	(3) 0.7
Camry	(2) 0.7
Celica	(2) 0.3
Corolla	(3) 0.7
RAV4 & Supra	(3) 0.3
Sienna	(2) 0.7
Tacoma & T100	(3) 0.7
4Runner	(2) 0.7

- (1) - Information not available at time of publication.
Refer to underhood A/C system specification label.
- (2) - Add amount specified of NEW refrigerant oil to compressor.
- (3) - Add amount specified of NEW refrigerant oil to

component.

- (4) - When replacing either a front or a rear evaporator,
add amount specified to replacement evaporator.
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