

COMPRESSOR REFRIGERANT OIL CHECKING

1996 Toyota Supra

1995-96 A/C Compressor Refrigerant Oil Checking

All Models

* PLEASE READ THIS FIRST *

CAUTION: DO NOT exceed A/C system refrigerant oil capacity, when servicing system. See REFRIGERANT OIL & REFRIGERANT SPECIFICATIONS.

NOTE: See the COMPRESSOR SERVICING article for compressor servicing procedures.

COMPRESSOR APPLICATION

COMPRESSOR APPLICATION TABLE

Application	Compressor
Avalon	Nippondenso 10PA17C 10-Cyl.
Camry	Nippondenso 10PA17C 10-Cyl.
Celica (1)	Nippondenso 10PA15C 10-Cyl.
Corolla	Nippondenso 10PA15 10-Cyl.
Land Cruiser	Nippondenso 10PA17 10-Cyl.
MR2	Nippondenso 10P13C 10-Cyl.
Paseo	Matsushita Rotary Vane
Pickup & 4Runner	Nippondenso 10PA17 10-Cyl.
Previa	Nippondenso 10PA17E 10-Cyl.
Supra	Nippondenso 10-Cyl.
Tacoma	Nippondenso 10PA17 10-Cyl.
Tercel	Matsushita TV12C Rotary Vane
T100	Nippondenso 10PA15 10-Cyl.
RAV4	Nippondenso 10P13 10-Cyl.

(1) - A Nippondenso 10PA17C/VC 10-cylinder compressor may also be used.

REFRIGERANT OIL & REFRIGERANT SPECIFICATIONS

* PLEASE READ THIS FIRST *

NOTE: Due to late changes, always refer to underhood A/C specification label in engine compartment or A/C compressor label while servicing A/C system. If A/C specification label and specifications within this article differ, always use label specifications.

REFRIGERANT OIL & R-134a REFRIGERANT CAPACITY

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

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.

REFRIGERANT OIL & R-134a REFRIGERANT CAPACITY TABLE (1995)

Application	(1) Oil Ounces	Refrigerant Ounces
Avalon	(2) (3) 3.4-4.1	28.2-31.8
Camry	(2) (3) 4.9	28.2-31.7
Celica	(2) (3) 4.1	21.1-24.7
Corolla	(2) (3) 4.1	22.9-26.5
Land Cruiser	(2) (3) 4.1	28.2-31.7
MR2	(2) (3) 4.1	25.0-26.5
Paseo	(4) 3.4-4.1	22.9-26.5
Pickup	(2) (3) 4.8	18.6-22.1
Previa		
Without Rear A/C ...	(2) 3.4-4.1	30.0-33.5
With Rear A/C	(2) 3.4-4.1	38.8-42.3
Supra	(2) (3) 4.8	22.9-26.5
Tacoma	(2) (3) 4.8	19.4-22.9
Tercel	(3) (4) 4.1	21.2-24.7
T100	(2) (3) 4.7	21.2-24.7
4Runner	(2) (3) 4.8	22.9-26.5

- (1) - Total system capacity, unless otherwise noted.
(2) - Use ND-Oil 8 (Part No. 08885-09109).
(3) - Compressor refrigerant oil capacity.
(4) - Use ND-Oil 9 (Part No. 08885-09119).

REFRIGERANT OIL & R-134a REFRIGERANT CAPACITY TABLE (1996)

Application	(1) Oil Ounces	Refrigerant Ounces
Avalon	(2) (3) 3.4-4.1	28.2-31.8
Camry	(2) (3) 4.9	28.2-31.7
Celica	(2) (3) 4.1	21.1-24.7
Corolla	(2) (3) 4.1	22.9-26.5
Land Cruiser	(2) (3) 4.1	28.2-31.7
Paseo	(4) 3.4-4.1	22.9-26.5
Previa		
Without Rear A/C ...	(2) 3.4-4.1	30.0-33.5
With Rear A/C	(2) 3.4-4.1	38.8-42.3
Supra	(2) (3) 4.8	22.9-26.5
Tacoma	(2) (3) 4.8	19.4-22.9
Tercel	(3) (4) 4.1	21.2-24.7
T100	(2) (3) 3.4-4.1	21.2-24.7
4Runner	(2) (3) 4.8	21.2-24.7
RAV4	(2) 4.1	23.2-26.8

- (1) - Total system capacity, unless otherwise noted.
(2) - Use ND-Oil 8 (Part No. 08885-09109).
(3) - Compressor refrigerant oil capacity.
(4) - Use ND-Oil 9 (Part No. 08885-09119).

SERVICING PRECAUTIONS

DISCHARGING SYSTEM

Discharge A/C system, using approved refrigerant recovery/recycling equipment. Always follow recovery/recycling

equipment manufacturer's instructions. After refrigerant recovery process is completed, the amount of compressor oil removed must be measured and the same amount added to A/C system.

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. Remove caps until connections of lines and fittings are to be completed.

CONNECTING LINES & FITTINGS

NOTE: All R-134a based systems use 1/2"-16 ACME threaded fittings. Ensure all replacement parts match the connections of the system being worked on.

Always use a new gasket or "O" ring when connecting lines or fittings. Coat "O" ring with refrigerant oil and ensure it is not twisted during installation. Always use 2 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, evacuate system thoroughly with a vacuum pump. Charge system with proper amount of refrigerant and perform leak test. See REFRIGERANT OIL & REFRIGERANT SPECIFICATIONS for system capacities. Check all fittings that have been opened. After system has been leak tested, check system performance.

NOTE: Most compressors are pre-charged with a fixed amount of refrigerant (shipping) oil. Drain compressor oil from new compressor and add refrigerant oil to new compressor according to amount removed from old compressor. Always refer to underhood A/C specification label or A/C compressor label while servicing A/C system.

COMPRESSOR OIL CHECKING

MATSUSHITA - ROTARY VANE

Paseo & Tercel

Discharge system. See SERVICING PRECAUTIONS. Remove compressor from vehicle. Drain oil from compressor through inlet and outlet ports. Fill compressor with 3.4-4.1 ounces of oil through suction port. Add 0.7 ounces if receiver-drier was replaced. When replacing condenser or evaporator, add 1.4-1.7 ounces of refrigerant oil.

NIPPONDENSO - 10-CYLINDER

Except Paseo & 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 new compressor. When replacing components, add specified amounts of new refrigerant oil. See COMPONENT REFRIGERANT OIL CAPACITIES table.

COMPONENT REFRIGERANT OIL CAPACITIES TABLE

Component	Ounces
Compressor	
Avalon	(1)
Camry	4.9
Celica, Corolla, Land Cruiser & MR2	4.1
Paseo	4.1
Pickup & 4Runner	4.8
Previa	(1)
Supra, Tacoma & T100	4.8
Tercel & RAV4	4.1
Condenser	
Avalon, Camry, Celica, Corolla, Land Cruiser & MR2	(2) 1.4
Paseo	(2) 1.4-1.7
Pickup & 4Runner	(2) 1.4-1.7
Previa	(2) 1.4-1.7
Supra, Tacoma, Tercel & T100	(2) 1.4
RAV4	(5) 1.4
Evaporator	
Avalon, Camry, Celica, Corolla, Land Cruiser & MR2	(2) 1.4
Paseo	(2) 1.4-1.7
Pickup & 4Runner	(2) 1.4
Previa (Front Or Rear)	(2) 1.4-1.7
Supra, Tacoma, Tercel & T100	(2) 1.4
RAV4	(2) 1.4
Receiver-Drier	
Avalon	(2) 0.7
Camry, Celica & Land Cruiser	(2) 0.4
Corolla	(3) 2.9
MR2	(4) 2.9
Paseo	(2) 0.4
Pickup & 4Runner	(2) 0.4-0.7
Previa	(2) 0.7
Supra, Tacoma & T100	(2) 0.3
Tercel	(4) 2.9
RAV4	(5) 2.9

- (1) - Information not available at time of publication.
- (2) - Add refrigerant oil to compressor.
- (3) - Add 0.7 ounce of refrigerant oil to compressor and remaining amount to receiver-drier.
- (4) - Add 0.4 ounce of refrigerant oil to compressor and remaining amount to receiver-drier.
- (5) - Add refrigerant oil to component.