

A/C COMPRESSOR REFRIGERANT OIL CHECKING

1998 Mitsubishi Montero

1998 A/C SYSTEM GENERAL SERVICING
Mitsubishi - Compressor Refrigerant Oil Checking

Diamante, Eclipse, Galant, Mirage, Montero, Montero Sport & 3000GT

* 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
Diamante	Sanden MSC105CVS Scroll
Eclipse	
2.0L Non-Turbo	Nippondenso 10PA17C 10-Cyl.
2.0L Turbo & 2.4L	Sanden MSC105CVS Scroll
Galant	Sanden MSC90C12 Scroll
Mirage	Sanden MSC90 Scroll
Montero	Nippondenso 10PA15 10-Cyl.
Montero Sport	Sanden MSC105C Scroll
3000GT	Sanden MSC105 Scroll

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
Diamante	5.7-6.4	22.9-24.3
Eclipse		
2.0L Non-Turbo	2.7-4.1	24.7-26.1
2.0L Turbo & 2.4L	5.7-6.4	24.7-26.1
Galant	4.1-5.1	22.9-24.3
Mirage	4.1-5.1	19.6-21.0
Montero	(2) 4.1	21.2-22.9
Montero Sport	(2) 5.7	22.9-24.0
3000GT	4.7-6.1	26.1-27.9

(1) - Total system capacity, unless otherwise noted.

(2) - Compressor refrigerant oil capacity.

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 & REFRIGERANT SPECIFICATIONS 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.

NIPPONDENSO 10-CYL.

Eclipse 2.0L Non-Turbo & Montero

Replacement compressor is shipped with NEW refrigerant oil.

Drain, measure and discard refrigerant oil from old compressor. Drain NEW refrigerant oil from replacement compressor equal to difference between amount drained from old compressor and amount shipped in replacement compressor. If any other components are replaced, add NEW refrigerant oil as specified. See COMPONENT REFRIGERANT OIL CAPACITIES (MITSUBISHI - NIPPONDENSO 10-CYL.) table.

COMPONENT REFRIGERANT OIL CAPACITIES TABLE (NIPPONDENSO)

Component	Ounces
Compressor (1)	

Eclipse 2.0L Non-Turbo	.....	3.4
Montero	.....	4.1
Condenser	.....	1.4
Evaporator	.....	1.4
Receiver-Drier	.....	0.3
Suction Hose	.....	0.3

(1) - If replacement compressor is shipped without refrigerant oil, add same amount of NEW refrigerant oil to replacement compressor that was drained from old compressor.

SANDEN SCROLL

Diamante, Eclipse 2.0L Turbo & 2.4L, Galant, Mirage, Montero Sport and 3000GT

Replacement compressor is shipped with NEW refrigerant oil.

Drain, measure and discard refrigerant oil from old compressor. Drain NEW refrigerant oil from replacement compressor equal to difference between amount drained from old compressor and amount shipped in replacement compressor. If any other components are replaced, add NEW refrigerant oil as specified. See COMPONENT REFRIGERANT OIL CAPACITIES (SANDEN SCROLL) table.

COMPONENT REFRIGERANT OIL CAPACITIES TABLE (SANDEN SCROLL)

Component	Ounces
Compressor (1)	
Diamante, Eclipse 2.0L Turbo & 2.4L & Galant	... 5.7-6.4
Mirage	..... 4.4
3000GT	..... 5.4
Condenser	
Diamante, Eclipse 2.0L Turbo & 2.4L, Galant, Mirage & 3000GT	..... 0.5
Evaporator	
Diamante, Eclipse 2.0L Turbo & 2.4L, Galant, Mirage & 3000GT	..... 2.0
Receiver-Drier	
Diamante, Eclipse 2.0L Turbo & 2.4L, Galant, Mirage & 3000GT	..... 0.3
Refrigerant Lines	
Diamante, Eclipse 2.0L Turbo & 2.4L, Galant, Mirage & 3000GT	..... 0.3

(1) - If replacement compressor is shipped without refrigerant oil, add same amount of NEW refrigerant oil to replacement compressor that was drained from old compressor.
