

A/C COMPRESSOR REFRIGERANT OIL CHECKING

1994 Mitsubishi 3000GT

1994 AIR CONDITIONING & HEAT
Mitsubishi A/C Compressor Refrigerant Oil Checking

3000GT, Diamante, Eclipse, Expo, Galant, Mirage,
Montero, Pickup, Precis

*** PLEASE READ THIS FIRST ***

NOTE: For COMPRESSOR APPLICATION and REFRIGERANT OIL & REFRIGERANT SPECIFICATIONS tables, see the A/C COMPRESSOR SERVICING article in the AIR CONDITIONING & HEAT section. DO NOT exceed A/C system refrigerant oil capacity when servicing system.

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. 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. DO NOT remove caps until connections of lines and fittings are 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

TABLE in the A/C COMPRESSOR SERVICING article 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.

CHECKING COMPRESSOR OIL

FORD (HALLA) - FX-15 10-CYLINDER

Precis

1) Before checking and adjusting oil level, operate compressor at engine idle speed, and set controls at maximum cooling and high blower motor speed for 20-30 minutes to return oil to compressor.

2) Stop engine. Discharge refrigerant and remove compressor from vehicle. See SERVICING PRECAUTIONS. Drain compressor oil through compressor intake and discharge ports. Measure amount drained.

3) If amount drained is less than 2.1 ounces, oil may have leaked out of A/C system. Check refrigerant line connections for leaks. If amount drained is less than 2.3 ounces, add 2.3 ounces (oil level is low). If amount drained is more than 2.3 ounces, fill NEW compressor with same amount as drained.

4) When replacing other A/C system components, add the following amount(s) of refrigerant oil. See COMPONENT REFRIGERANT OIL CAPACITIES (FX-15 10-CYLINDER) table.

COMPONENT REFRIGERANT OIL CAPACITIES TABLE (FX-15 10-CYLINDER)

Component	Ounces
Accumulator	2.6
Condenser	1.0
Evaporator	1.6
Refrigerant Line(s)	(1) 0.6

(1) - Add amount indicated for each line replaced.

NIPPONDENSO - 10-CYLINDER

Diamante Wagon, Eclipse, Expo, Montero

1) On Diamante Wagon, add 0.3 ounces of refrigerant oil when replacing condenser. Add 2.4 ounces of oil when replacing evaporator. When replacing receiver-drier, add 0.2 ounce of refrigerant oil. Add 0.3 ounce of refrigerant oil when replacing a hose.

2) On Eclipse, add 0.7 ounce of refrigerant oil when replacing condenser. Add one ounce when replacing evaporator. When replacing receiver-drier or hoses, add 0.3 ounce per component replaced.

3) On Expo and Montero, add 1.3-1.4 ounces of refrigerant oil when replacing condenser or evaporator. When replacing receiver-drier or low-pressure hose, add 0.3 ounce per component replaced.

SANDEN - SCROLL

Diamante, Galant, Mirage, Pickup, Summit & 3000GT

1) On Diamante, Mirage, Pickup, Summit and 3000GT, add 0.5 ounce of refrigerant oil when replacing condenser. Add 2 ounces when replacing evaporator. When replacing receiver-drier or low-pressure hose, add 0.3 ounce per component replaced.

2) On Galant, add 1.2 ounces of refrigerant oil when replacing condenser. Add 2.3 ounces when replacing evaporator. When replacing receiver-drier or hose, add 0.4 ounce per component replaced.