



1989 Porsche 911 Carrera 4 Coupe AWD F6-3600cc 3.6L SOHC

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Group

8

Model

All

Part Identifier

8717

Number

9501

December 19, 1995

Subject

Retrofitting R12 A/C System to [Refrigerant](#) R134

ATTENTION: Service Manager / Service Technician

Models Affected:

All

Concern:

Retrofitting of R12 air conditioning systems to [refrigerant](#) R134a (formerly R12).

General Information:

As of January 1, 1995, (January 1, 1996 for USA) production of [refrigerant](#) R12 containing CFC substances is no longer permitted in accordance with legislation in the European Union and several other countries and will be made illegal (with specific exceptions) worldwide in the near future. Starting with Model Year '93 (P), all air conditioning systems of new Porsche vehicles are factory charged with non-CFC refrigerant R134a. The formerly used refrigerant R12 was phased out at the same time. A new type of [refrigerant oil](#), ND-Oil 8, must be used in conjunction with refrigerant R134a. This refrigerant oil is of a synthetic type. The formerly used refrigerant oil based on mineral oils will not mix with the ND-Oil 8 refrigerant oil required for R134a.

Due to the chemical properties of the new [refrigerant](#) R134a and of the new [refrigerant oil](#), modifications to the materials of various components exposed to refrigerant oil have become necessary.

The maximum [refrigerant](#) and [refrigerant oil](#) capacities are changed in this retrofitting process!

Retrofitting:

In most cases, older vehicles fitted with air conditioners charged with R12 [refrigerant](#) containing CFC can be converted without any major problems.

It is the responsibility of the dealer/retrofitting agent to maintain A/C system integrity during the retrofitting process.

It is of particular importance to draw off the R12 [refrigerant](#) and [refrigerant oil](#) charge. Recycling service equipment should be used for this purpose and to separate the refrigerant oil from the refrigerant.

Retrofitting operations should only be performed by qualified personnel in Porsche workshops. After retrofitting, a sticker should be attached near the compressor and in the Maintenance Booklet to confirm that retrofitting has been performed according to specifications. This technical information provides you with an overview of the required scope of operations and parts requirements for retrofitting air conditioners to non-CFC [refrigerant](#) R134a.

Warranty Information:

A two year parts warranty without mileage limitations applies to all Genuine Porsche parts used for retrofitting.

The dealer warrants the A/C system integrity, correct installation and execution of all retrofitting operations.

Description	Qty.	Part Number	Notes
Receiver Dryer	1	944 573 943 00	May also be retrofitted to A/C systems using R 12
O-ring 7.5 X 2 mm	2	999 707 247 40	Coat with fresh ND-Oil 8 when installing
Charging Valve (see note)			Tightening Torque: 10 - 12 Nm (7.5 - 9 ftlbs)
High Pressure Valve	1	928 573 965 03	Angle Valve 90°
Low Pressure Valve	1	928 573 965 00	Straight Adapter
ND-Oil 8 Refrigerant Oil		PNA 573 001 40cc PNA 573 002 250cc	Capacity: 300 ± 20 ml. (270 ml) Value in () = Cap. for R 12
Refrigerant R 134a		-----	Capacity: 1020 g
Self-Adhesive Label	2	964 701 141 02	Attach the self-adhesive labels in the following places: - on the body work near the A/C compressor - in the Maintenance Booklet

Assembly Note:

When fitting Angle Valves (A), remove the formerly used valve inserts.

When fitting straight adapters (B), the former valve inserts remain installed.

Installed Compressor 944 126 008 00 - without drain plug.



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944-Model Years 1983 to 1985/1

Description	Qty.	Part Number	Notes
Receiver Dryer	1	911 573 939 03	May also be retrofitted to A/C systems using R 12
O-ring 7.5 X 2 mm	2	999 707 247 40	Coat with fresh ND-Oil 8 when installing
Charging Valve (see note)			Tightening Torque: 10 - 12 Nm (7.5 - 9 ftlbs)
High Pressure Valve	1	928 573 965 03	Angle Valve 90°
Low Pressure Valve	1	928 573 965 02	Angle Valve 90°
ND-Oil 8 Refrigerant Oil		PNA 573 001 40cc PNA 573 002 250cc	Capacity: 140 ± 20 ml (120 ml) Value in () = Cap. for R 12
Refrigerant R 134a		-----	Capacity: 1220g
Self-Adhesive Label	2	964 701 141 02	Attach the self-adhesive labels in the following places: - on the body work near the A/C compressor - in the Maintenance Booklet

Assembly Note:

When fitting Angle Valves (A), remove the formerly used valve inserts.

When fitting straight adapters (B), the former valve inserts remain installed.

Installed Compressor 930 126 021 01 - without drain plug.



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911 Carrera - Model Year 1984 to 1989



Description	Qty.	Part Number	Notes
Receiver Dryer	1	964 573 943 00	May also be retrofitted to A/C systems using R 12
O-ring 7.5 X 2 mm	2	999 707 247 40	Coat with fresh ND-Oil 8 when installing
Charging Valve (see note)			Tightening Torque: 10 - 12 Nm (7.5 - 9 flbs)
High Pressure Valve	1	928 573 965 03	Angle Valve 90°
Low Pressure Valve	1	928 573 965 02	Angle Valve 90°
ND-Oil 8 Refrigerant Oil		PNA 573 001 40cc PNA 573 002 250cc	Capacity: 140 ± 20 ml (120 ml) Value in () = Cap. for R 12
Refrigerant R 134a		-----	Capacity: 840g
Self-Adhesive Label	2	964 701 141 02	Attach the self-adhesive labels in the following places: - on the body work near the A/C compressor - in the Maintenance Booklet

Assembly Note:

When fitting Angle Valves (A), remove the formerly used valve inserts.

When fitting straight adapters (B), the former valve inserts remain installed.

Installed Compressor 964 126 121 01 - without drain plug.



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911 Carrera 2/4 - Model Years 1989 to 1992

