

# **\* A/C-HEATER SYSTEM UNIFORM INSPECTION GUIDELINES \***

## **Article Text**

1993 Volkswagen Corrado

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Wednesday, March 22, 2000 08:21PM

## **ARTICLE BEGINNING**

### **GENERAL INFORMATION**

A/C-Heater System Motorist Assurance Program  
Standards For Automotive Repair

All Makes and Models

## **INTRODUCTION TO MOTORIST ASSURANCE PROGRAM (MAP)**

The Motorist Assurance Program was formed in 1992 by forty (40) companies who were concerned about the image of automotive service establishments. Today, MAP is an industry-wide association dedicated to strengthening consumer satisfaction with the automotive repair industry. MAP's participants represent the majority of the nation's multi-bay retail automotive outlets, their parts and equipment suppliers, independent repair shops, industry associations, car companies, manufacturers representatives, and the trade press. MAP is developing standards of service, uniform inspection procedures and other programs to assure consumers of the industry's professionalism and the commitment to excellence shared by MAP's sponsoring companies.

MAP's achievements to date include production and distribution (over 280,000) of the consumer brochure "How to Find Your Way Under the Hood and Around Your Car", development of a Pledge of Satisfaction to Consumers and Standards of Service and establishment of relationships with regulatory agencies.

As auto repair becomes an issue for federal and state regulators, MAP is working to educate government leaders on the dynamics of automotive service and the self-monitoring efforts MAP has undertaken on the industry's behalf. MAP's sponsoring companies are becoming well-known to government representatives as exemplary businesses working to improve the industry. Media sources also look to MAP to provide information and advice to consumers and on working with automotive technicians and repair establishments.

In the next few months, MAP plans to assist member repair facilities in implementing the MAP Pledge to Customers, establishing an alternate dispute resolution system to help resolve customer complaints within the industry, and developing a shop accreditation program to encourage policies in concert with the MAP Standards of Service and Inspection Guidelines.

MAP has united the aftermarket behind its consumer-oriented goals and has established itself both within and outside of the industry. We welcome you to join us as MAP continues its outreach. With your support, both the automotive repair industry and your customers will reap the benefits. Please contact MAP at:

808 17th Street, NW  
Suite 200  
Washington, D.C. 20006  
202 466 7050

# **\* A/C-HEATER SYSTEM UNIFORM INSPECTION GUIDELINES \***

## **Article Text (p. 2)**

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### **MAP UNIFORM INSPECTION GENERAL GUIDELINES**

#### **OVERVIEW OF SERVICE REQUIREMENTS & SUGGESTIONS**

It is MAP policy that all exhaust, brake, ABS, steering and suspension, wheel alignment, tires and wheels, driveline, engine performance and maintenance and heating, ventilation and air conditioning services be offered and performed under the guidelines and procedures specified in these sections.

Before any service is performed on a vehicle, an inspection of the appropriate system must be performed. The results of this inspection must be explained to the customer and documented on an inspection form. The condition of the vehicle and its components will indicate what services/part replacements may be required or suggested. In addition, suggestions may be made to satisfy the needs expressed by the customer.

This section lists the various parts and conditions that indicate required or suggested service or part replacement. Although this list is extensive, it is not inclusive. In addition to this list, a technician may make a suggestion. This suggestion must be based on substantial and informed experience or the vehicle manufacturer's recommended service interval.

Some conditions indicate that service or part replacement is required because the part in question is no longer providing the function for which it is intended, does not meet a vehicle manufacturer's design specification or is missing.

- \* Example: An exhaust pipe has corroded severely and has a hole in it through which exhaust gases are leaking. Replacement of the exhaust pipe in this case is required due to functional failure.
- \* Example: A brake rotor has been worn to the point where it measures less than the vehicle manufacturer's specifications. Replacement of the rotor is required because it does not meet design specifications.

Some conditions indicate that a service or part replacement is suggested because the part is close to the end of its useful life or to address a customer's need, convenience or request. If a customer's vehicle has one of these conditions, the procedure may only be to suggest service.

- \* Example: An exhaust pipe is rusted, corroded or weak, but no leaks are present. In this case, the exhaust pipe has not failed. However, there is evidence that the pipe may need replacement in the near future. Replacement of the pipe may be suggested for the customer's convenience in avoiding a future problem.
- \* Example: The customer desires improved ride and/or handling, but the vehicle's shocks or struts have not failed. In this case, replacement may be suggested to satisfy the customer's wishes. In this case, replacement of the shocks or struts may

# **\* A/C-HEATER SYSTEM UNIFORM INSPECTION GUIDELINES \***

## **Article Text (p. 3)**

1993 Volkswagen Corrado

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Wednesday, March 22, 2000 08:21PM

not be sold as a requirement.

A customer, of course, has the choice of whether or not a Shop will service his or her vehicle. He or she may decide not to follow some of your suggestions. The following reasons may be used for required and suggested services:

### Reasons to Require Repair or Replacement:

- \* component no longer performs intended purpose
- \* component does not meet a design specification (regardless of performance)
- \* component is missing.

### Reasons to Suggest Repair or Replacement

- \* component is close to the end of its useful life (just above discard specifications or weak; failure likely to occur soon, etc.)
- \* address a customer need, convenience or request (stiffen ride, enhance performance, eliminate noise, etc.)
- \* comply with maintenance recommended by the vehicle's Original Equipment Manufacturer (OEM)
- \* technician's recommendation based on substantial and informed experience.

## **HEATING, VENTILATION & AIR CONDITIONING GUIDELINES**

**\* PLEASE READ THIS FIRST \***

NOTE: When servicing R-12 Systems it is suggested to use "O" rings, seals and hose materials which are also compatible with R-134a in case the vehicle requires retrofitting later in its life.

## **COMPRESSOR & CLUTCH ASSEMBLY**

### COMPRESSOR

AA		
Condition	3	Procedure 3 Note
AA		
Seized	3	Requires replacement 3
AA		
Inoperative	3	Further inspection 3 Check/service state of
	3	required. 3 charge following the
	3	3 manufacturer's recommended
	3	3 service procedures. If the
	3	3 compressor is still
	3	3 inoperative, require
	3	3 repair or replacement.
AA		
Noisy	3	Further inspection 3 Check/service oil level and



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**Article Text (p. 5)**

1993 Volkswagen Corrado

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**EVAPORATOR**

EVAPORATOR

AA			
Condition	3	Procedure	3 Note
AA			
Leaking	3	Require repair or	3
	3	replacement.	3
AA			
Internal	3	Require replacement.	3
restriction	3		3
AA			
Air flow	3	Further inspection	3 If fins cannot be cleaned
obstruction	3	required.	3 or straightened, require
	3		3 replacement.
AA			
Damaged	3	Require replacement.	3
connections or	3		3
fittings	3		3
AA			

**ACCUMULATOR/DRIER**

ACCUMULATOR/DRIER

AA			
Condition	3	Procedure	3 Note
AA			
Leaking	3	Require replacement.	3
AA			
Restricted	3	Require replacement.	3
AA			
Desiccant bag	3	Require replacement.	3
deterioration	3		3
AA			
Moisture in system	3	Require replacement.	3
AA			
System has been	3	Suggest replacement.	3
exposed to air	3		3
AA			
Missing, damaged	3	Require repair or	3
mounting hardware	3	replacement of	3
or brackets	3	hardware or brackets	3
AA			

**HOSES/LINES/FITTINGS**

HOSES/LINES/FITTINGS

AA			
Condition	3	Procedure	
AA			
Blistered hose	3	Suggest repair or replacement.	
AA			

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## Article Text (p. 6)

## 1993 Volkswagen Corrado

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[illegible]

## EVAPORATOR FILTER (IF APPLICABLE)

EVAPORATOR FILTER (IF APPLICABLE)		
Condition	Procedure	Note
Air flow obstruction	Further inspection required.	If filter cannot be cleaned, require replacement.
Missing	Require replacement.	

## EXPANSION VALVE/ORIFICE TUBE

[illegible]

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**Article Text (p. 7)**

1993 Volkswagen Corrado

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**PRESSURE CONTROL VALVES**

NOTE: Includes Evaporator Pressure Regulator (EPR), Pilot Operated Absolute (POA), Suction Throttling Valve (STV), Valves In Receiver (VIR).

**PRESSURE CONTROL VALVES**

AA		
Condition	3	Procedure
AA		
Leaking	3	Require repair or replacement.
AA		
Restriction	3	Require repair or replacement.
AA		
Stuck open or closed	3	Require repair or replacement.
AA		
Damaged connections or fittings	3	Require repair or replacement.
AA		

**SERVICE PORTS**

**SERVICE PORTS**

AA		
Condition	3	Procedure
AA		
Leaking	3	Require repair or replacement.
AA		
Sticking valve core	3	Require repair or replacement
AA		
Missing valve cap	3	Require replacement of valve cap.
AA		
Damaged threads	3	Require repair or replacement.
AA		

**DRIVE BELTS**

**DRIVE BELTS**

AA			
Condition	3	Procedure	3 Note
AA			
Missing	3	Require replacement.	3
AA			
Improper tension	3	Require adjustment.	3
AA			
Improper alignment	3	Further inspection	3 Check alignment of pulleys
	3	required.	3 and proper belt
	3		3 installation. Suggest
	3		3 repair or replacement.
AA			
Damaged	3	Require replacement.	3 Damaged conditions may
	3		3 include but are not
	3		3 limited to: teeth missing,

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**Article Text (p. 8)**

1993 Volkswagen Corrado

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3	3 chunking or excessive
3	3 cracking, missing rib,
3	3 broken or cut, ply
3	3 separation.

AA

Noisy 3 Suggest replacement. 3

AA

Worn	3 Suggest replacement.	3 Worn conditions may
3		3 include: belt worn
3		3 narrower than original
3		3 width, bottom and side-
3		3 wall cracks, protruding
3		3 edge cords.

AA

**DRIVE PULLEYS**

**DRIVE PULLEYS**

AA

Condition	3	Procedure
-----------	---	-----------

AA

Damaged	3 Require replacement.
---------	------------------------

AA

Improper alignment	3 Require repair.
--------------------	-------------------

AA

Missing, damaged mounting hardware	3 Require repair or replacement of
	3 bracket of hardware or bracket.

AA

**TENSIONERS**

**TENSIONERS**

AA

Condition	3	Procedure
-----------	---	-----------

AA

Missing	3 Require replacement.
---------	------------------------

AA

Noisy	3 Suggest replacement.
-------	------------------------

AA

Damaged	3 Suggest replacement.
---------	------------------------

AA

Improper adjustment	3 Require adjustment or repair.
---------------------	---------------------------------

AA

**CONDENSER**

**CONDENSER**

AA

Condition	3	Procedure	3	Note
-----------	---	-----------	---	------

AA

Leaking	3 Require repair or	3
	3 replacement.	3





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## Article Text (p. 10)

## 1993 Volkswagen Corrado

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Wednesday, March 22, 2000 08:22PM

3 components as necessary.  
3 Discoloration of oil does not  
3 necessarily indicate a system  
3 problem.

[illegible]

## REFRIGERANT

## REFRIGERANT

[illegible]

Condition	3	Procedure
-----------	---	-----------

[illegible][illegible][illegible]

Cross-contamination 3

[illegible]

Different types of refrigerants  
in the same system

3 manufacturer's procedures and  
3 specifications.

[illegible]

Incompatible refrigerants mixed 3

together **3**

[illegible]

## AIR DISTRIBUTION

PLENUM/EVAPORATOR CASE/HEATER CASE

[illegible]

Condition	3	Procedure	3	Note
-----------	---	-----------	---	------

[illegible]

Cracked	3 Suggest repair or 3 replacement.	3 3
---------	---------------------------------------	--------

[illegible]

Air leaks	3	Require repair or	3
	3	replacement	3

[illegible]

Restricted      3 Suggest cleaning,      3  
3 repair or replacement. 3

[illegible]

Odor	3 Further inspection	3 Identify source. Suggest
	3 required.	3 cleaning or repair.

[illegible]

Noisy	3 Further inspection	3 Identify source. Suggest
	3 required.	3 cleaning or repair.

[illegible]

Cold water leak in      3 Further inspection required.      3 Determine source of leak. Leak may be caused due to restricted

passenger	3	3	drain tube, cracked evaporator
compartment	3	3	case, leaking seal or gasket.

3 Require repair or replacement.

[illegible]

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**Article Text (p. 11)**

1993 Volkswagen Corrado

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Wednesday, March 22, 2000 08:22PM

**ELECTRICAL/VACUUM ACTUATORS (MOTORS)**

**ELECTRICAL/VACUUM ACTUATORS (MOTORS)**

AA		
Condition	3	Procedure
AA		
Leaking vacuum	3	Require replacement.
AA		
Inoperative	3	Require replacement
AA		
Damaged	3	Suggest replacement.
AA		
Missing	3	Require replacement.
AA		
Missing, damaged mounting hardware	3	Require repair of mounting
	3	hardware or bracket.
AA		
Corroded, loose terminals	3	Require repair or replacement.
AA		

**LINKAGE**

**LINKAGE**

AA		
Condition	3	Procedure
AA		
Broken/damaged or binding	3	Require repair or replacement.
AA		
Missing or disconnected	3	Require repair or replacement.
AA		
Out of adjustment	3	Require adjustment.
AA		

**CABLES**

**CABLES**

AA		
Condition	3	Procedure
AA		
Binding	3	Suggest repair or replacement.
AA		
Out of adjustment	3	Require adjustment.
AA		
Broken or seized	3	Require replacement.
AA		
Disconnected	3	Require repair.
AA		

**VACUUM HOSES/TUBES**

**VACUUM HOSES/TUBES**

AA		
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**\* A/C-HEATER SYSTEM UNIFORM INSPECTION GUIDELINES \***

**Article Text (p. 12)**

1993 Volkswagen Corrado

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Wednesday, March 22, 2000 08:22PM

Condition	3	Procedure
Missing	3	Require replacement.
Damaged	3	Suggest repair or replacement.
Leaking/restricted	3	Require repair or replacement.
Routed incorrectly	3	Suggest re-routing.

**EVAPORATOR DRAIN TUBE**

EVAPORATOR DRAIN TUBE		
Condition	3	Procedure
Disconnected	3	Require repair.
Missing	3	Require replacement.
Damaged/leaking	3	Require replacement.
Restricted	3	Require repair or replacement.

**CONTROLS**

FUNCTION SELECTORS		
Condition	3	Procedure
Inoperative	3	Require repair or replacement.
Malfunctioning	3	Suggest repair or replacement.
Damaged	3	Suggest replacement.
Missing	3	Require replacement.
Missing, damaged mounting hardware	3	Require repair of mounting hardware or bracket.
Corroded, loose terminals	3	Require repair or replacement.

BLOWER SWITCH		
Condition	3	Procedure
Inoperative	3	Require replacement.

**\* A/C-HEATER SYSTEM UNIFORM INSPECTION GUIDELINES \***

**Article Text (p. 13)**

1993 Volkswagen Corrado

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Wednesday, March 22, 2000 08:22PM

Malfunctioning	3 Suggest repair or replacement.
AA	
Damaged	3 Suggest replacement.
AA	
Missing	3 Require replacement.
AA	
Missing, damaged mounting hardware	3 Require repair of mounting
	3 hardware or bracket.
AA	
Corroded, loose terminals	3 Require repair or replacement.
AA	

**BLOWER MOTOR**

BLOWER MOTOR	
AA	
Condition	3 Procedure
AA	
Inoperative	3 Require replacement.
AA	
Noisy	3 Suggest replacement.
AA	
Damaged	3 Suggest replacement.
AA	
Missing	3 Require replacement.
AA	
Missing, damaged mounting hardware	3 Require repair of mounting
	3 hardware or bracket.
AA	
Corroded, loose terminals	3 Require repair or replacement.
AA	

**BLOWER FAN**

BLOWER FAN	
AA	
Condition	3 Procedure
AA	
Damaged	3 Require replacement.
AA	
Noisy	3 Suggest replacement.
AA	

**BLOWER RESISTOR**

BLOWER RESISTOR	
AA	
Condition	3 Procedure
AA	
Inoperative	3 Require replacement.
AA	
Malfunctioning	3 Suggest replacement.

## \* A/C-HEATER SYSTEM UNIFORM INSPECTION GUIDELINES \*

## Article Text (p. 14)

# 1993 Volkswagen Corrado

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Wednesday, March 22, 2000 08:22PM

[illegible]

Damaged <sup>3</sup> Suggest replacement.

[illegible]

Missing <sup>3</sup> Require replacement.

[illegible]

Missing, damaged mounting hardware <sup>3</sup> Require repair of mounting

<sup>3</sup> hardware or bracket.

[illegible]

Corroded, loose terminals <sup>3</sup> Require repair or replacement.

[illegible]

## SWITCHES

NOTE: Includes, but not limited to: High Pressure Cut-Off, Low Pressure Cut-Off, Thermostatic Fan Control, Ambient, Pressure Cycling, etc.

## SWITCHES

[illegible]

Condition	3	Procedure
-----------	---	-----------

[illegible]

Inoperative/intermittent <sup>3</sup> Require replacement.

[illegible]

Malfunctioning <sup>3</sup> Suggest replacement.

[illegible]

Leaking <sup>3</sup> Require repair or replacement.

[illegible]

Damaged <sup>3</sup> Suggest replacement.

[illegible]

Missing <sup>3</sup> Require replacement.

[illegible]

Missing, damaged mounting hardware <sup>3</sup> Require repair of mounting

<sup>3</sup> hardware or bracket.

[illegible]

Corroded, loose terminals <sup>3</sup> Require repair or replacement.

[illegible]

## THERMISTOR/SENSORS

NOTE: Includes, but not limited to: In-car Temperature, Ambient Air Temperature, Sun Load Sensor, etc.

## THERMISTOR/SENSORS

[illegible]

Condition	3	Procedure
-----------	---	-----------

[illegible]

Inoperative <sup>3</sup> Require replacement.

**A**

Malfunctioning <sup>3</sup> Suggest replacement.

[illegible]

Damaged <sup>3</sup> Suggest replacement.

[illegible]

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**Article Text (p. 15)**

1993 Volkswagen Corrado

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Wednesday, March 22, 2000 08:22PM

Missing 3 Require replacement.  
Missing, damaged mounting hardware 3 Require repair of mounting  
3 hardware or bracket.  
Corroded, loose terminals 3 Require repair or replacement.

**RELAYS**

RELAYS  
Condition 3 Procedure  
Inoperative 3 Require replacement.  
Malfunctioning 3 Suggest replacement.  
Damaged 3 Suggest replacement.  
Missing 3 Require replacement.  
Missing, damaged mounting hardware 3 Require repair or replacement of  
3 hardware.  
Corroded, loose terminals 3 Require repair or replacement.

**FUSE/FUSIBLE LINK/CIRCUIT BREAKER**

FUSE/FUSIBLE LINK/CIRCUIT BREAKER  
Condition 3 Procedure 3 Note  
Inoperative/intermittent 3 Require replacement. 3 Determine cause of  
3 Further inspection 3 condition & correct  
3 required. 3 prior to replacement.  
Damaged 3 Suggest repair or 3  
3 replacement. 3  
Open 3 Require replacement. 3  
Missing 3 Require replacement. 3 Refer to OEM owner's  
3 manual for proper  
3 amperage & location.

**WIRING HARNESS/CONNECTORS**

WIRING HARNESS/CONNECTORS  
Condition 3 Procedure 3 Note  
Damaged 3 Suggest repair or 3

**\* A/C-HEATER SYSTEM UNIFORM INSPECTION GUIDELINES \***

**Article Text (p. 16)**

1993 Volkswagen Corrado

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Wednesday, March 22, 2000 08:22PM

	3	replacement.	3
AAAAA			
Routed incorrectly	3	Suggest rerouting of	3
	3	of wiring.	3
AAAAA			
Open fusible link	3	Require replacement	3
	3	of fusible link.	3
	3	Determine cause of	3
	3	condition and repair	3
	3	prior to replacement.	3
AAAAA			
Shorted/open	3	Require repair or	3
	3	replacement.	3
AAAAA			
Connector terminal bent,	3	Require repair or	3
broken, corroded or	3	replacement	3
loose	3		3
AAAAA			
Excessive resistance	3	Require repair or	3
	3	replacement	3
AAAAA			
Poor ground	3	Require repair.	3
AAAAA			

**CONTROL MODULE**

NOTE: Includes, but not limited to: BOM (Body), ECM (Electronic), PCM (Power), etc.

**CONTROL MODULE**

AAAAA			
Condition	3	Procedure	3
			Note
AAAAA			
Inoperative	3	Require replacement.	3
AAAAA			
Malfunctioning	3	Suggest replacement.	3
AAAAA			
Code set	3	Further inspection	3
	3	required.	3
	3		3
	3		3
	3		3
	3		3
	3		3
AAAAA			
Damaged/cracked	3	Suggest replacement.	3
housing	3		3
	3		3
	3		3
	3		3
AAAAA			
Damaged	3	Suggest replacement.	3
Missing	3	Require replacement.	3
Missing, damaged	3	Require repair of	3
mounting hardware	3	mounting hardware or	3
	3	bracket.	3
AAAAA			



## \* A/C-HEATER SYSTEM UNIFORM INSPECTION GUIDELINES \*

## Article Text (p. 17)

# 1993 Volkswagen Corrado

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Wednesday, March 22, 2000 08:22PM

Corroded, loose	3	Require repair or	3
terminals	3	replacement.	3

[illegible]

## CONTROLLERS

NOTE: Includes, but not limited to: IRCM, Coolant Fan Control Module (CFCM), AC Controller, Amplifier, Programmers, Control Heads, Power Modules, etc.

## CONTROLLERS

[illegible]

Condition	3	Procedure	3	Note
-----------	---	-----------	---	------

[illegible]

Inoperative                    <sup>3</sup> Require replacement. <sup>3</sup>

[illegible]

Malfunctioning      <sup>3</sup> Suggest replacement. <sup>3</sup>

[illegible]

Damaged/cracked housing	3	Suggest replacement.	3	If moisture enters the
	3		3	controller it can reduce
	3		3	life expectancy or impair
	3		3	function.

[illegible]

Damaged <sup>3</sup> Suggest replacement. <sup>3</sup>

[illegible]

Missing <sup>3</sup> Require replacement. <sup>3</sup>

[illegible]

Missing, damaged    <sup>3</sup> Require repair of    <sup>3</sup>

mounting hardware <sup>3</sup> mounting hardware or <sup>3</sup>

3 bracket. 3

[illegible]

Corroded, loose      <sup>3</sup> Require repair or      <sup>3</sup>

terminals                    <sup>3</sup> replacement.                    <sup>3</sup>

[illegible]

## HEATER CORE

## HEATER CORE

[illegible]

Condition	3	Procedure	3	Note
-----------	---	-----------	---	------

[illegible]

Leaking	3	Require repair or	3
---------	---	-------------------	---

3 replacement. 3



Damaged fins,	3	Suggest repair or	3
---------------	---	-------------------	---

tubes, fittings <sup>3</sup> replacement. <sup>3</sup>

[illegible]

Internal	3	Require repair or	3
----------	---	-------------------	---

restrictions <sup>3</sup> replacement <sup>3</sup>

[illegible]

Missing/by-passed <sup>3</sup> Suggest repair or <sup>3</sup>

3 replacement 3



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**Article Text (p. 19)**

1993 Volkswagen Corrado

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Company/Organization \_\_\_\_\_

Address \_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

Phone \_\_\_\_\_ FAX \_\_\_\_\_

\*\*\*\*\*

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