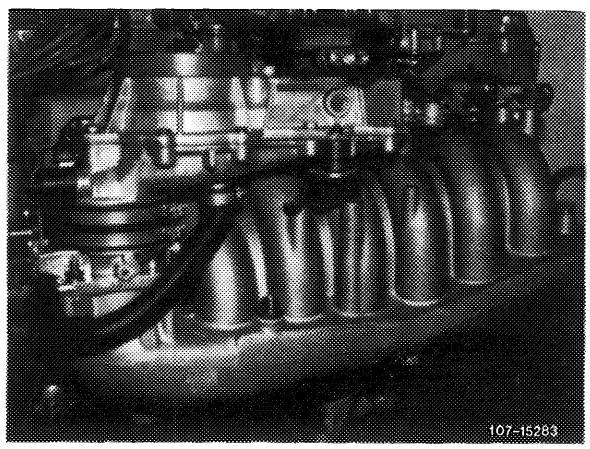
14–450 Removal and installation of intake manifold, replacement of gasket

Note

When removing and installing intake manifold, the mixture controller with air guide housing need not be removed.

Layout and shape of intake manifold have been changed starting from date of increased output. As a result, the following additional changes were made:

1. Injection lines for cylinders 4–6.
2. Control pressure line from fuel distributor to pressure damper.
3. Control pressure line from warm–up compensator to pressure damper.
4. Return line from warm-up compnesator to fuel distributor.
5. Connection for idle air on air guide housing.
6. Additional holder for supporting mixture controller.
7. Holder for fastening pressure damper to intake manifold.
8. Regulating lever.
9. Air guide housing.
10. Contour hose.
11. Support for intake manifold.
12. Rubber hose for full load enrichment.



Installation: April 1978

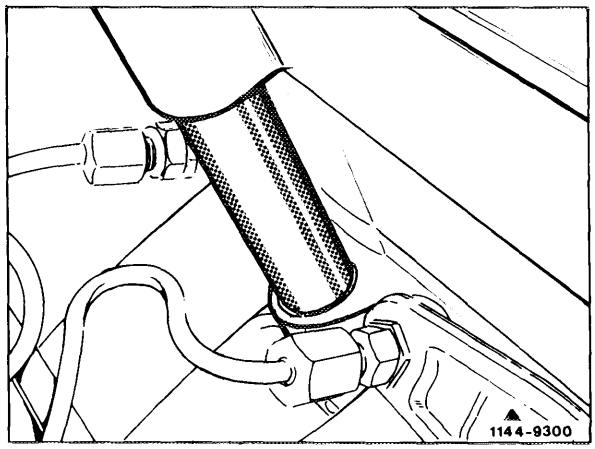
Model	Starting chassis end No.
107.022	005201
107.042	004222
116.024/025	113919
123.033	039906 (035262)[1])
123.053	008540 (006171)[1])
123.093	000021
126.022/023	Start of series

[1]) Righthand steering in England version.

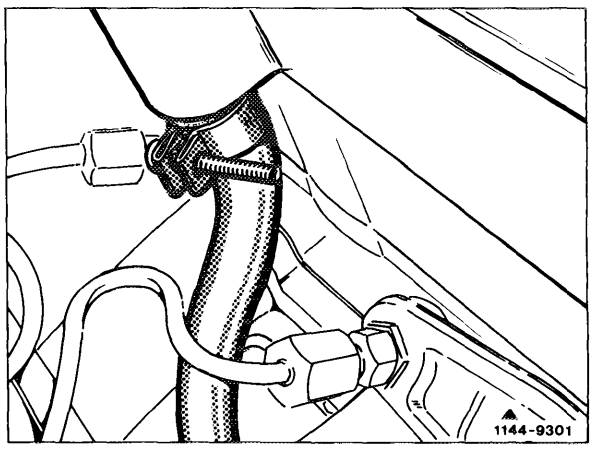
Vent connection to intake manifold
Engine 110.984/985/986

Connection has been changed for better distribution of vent vapors. This required a modification of contour hose.

After the former intake manifold has been used up, only the modified intake manifold together with contour hose will be available.



1st version



2nd version

Installation: September 1979

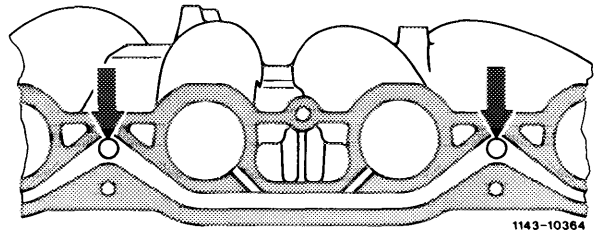
Model	Engine	Engine end No. manual transmission	automatic transmission	Chassis end No.
107.022 107.042	110.986	003146	007150	007614 006812
116.024 116.025	110.985	014021 069693		151315
123.033 123.053 123.093	110.984	019774	066923	064566 017098 004432
126.022 126.023	110.987	start of series		

Idle air feed

The idle air feed now proceeds via 2 connections instead of the former central air intake.

Air distribution to the individual cylinders will be improved.

Smooth running of engine following a cold start is also improved by the said measure.



Installation: September 1981

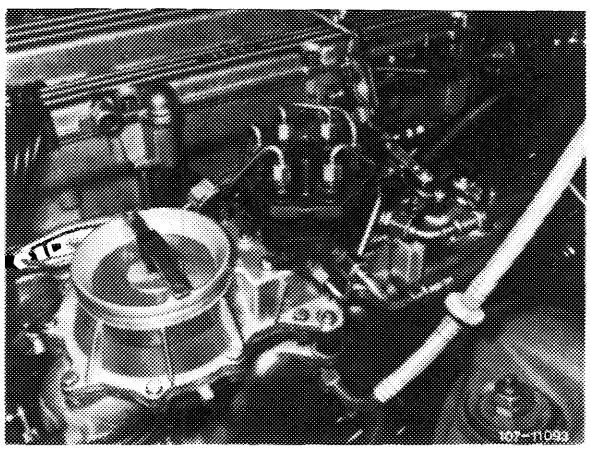
Model	Engine	Engine end No. manual transmission	automatic transmission	Chassis end No. Installation mixed	Installation continuous
107.042	110.990	start of series		010107–011567	011569
123.007 123.033 123.053 123.093	110.988	start of series		085174–096468 024129–024416 010064–010252	096496 024417 010253
126.022 126.023	110.989	start of series		021381–043198 039922–042786	043199 042787

Removal

1 Remove air cleaner.

2 Drain coolant.

3 Unscrew all fuel and injection lines while catching fuel with a rag. Close fuel lines blind.



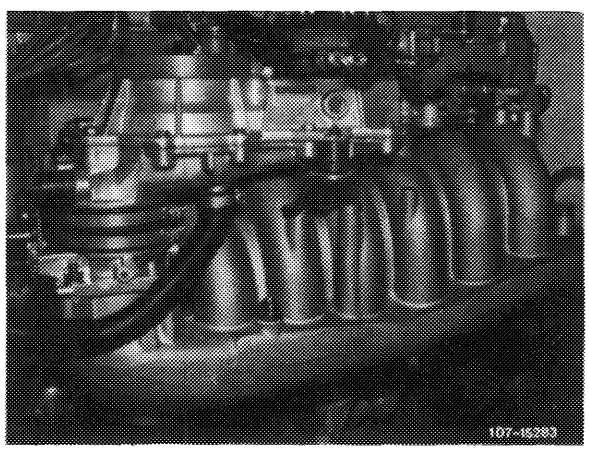
1st version

4 Pull cable plug from mixture controller (if installed) and from cold start valve.

5 Disconnect connecting rod for longitudinal regulating shaft. On model 126, remove longitudinal regulating shaft (30–310).

6 Pull off vacuum line for automatic transmission and central locking system.

7 Unscrew cable strap for electric cable harness (cold start valve, warm-up compensator, safety switch).



2nd version

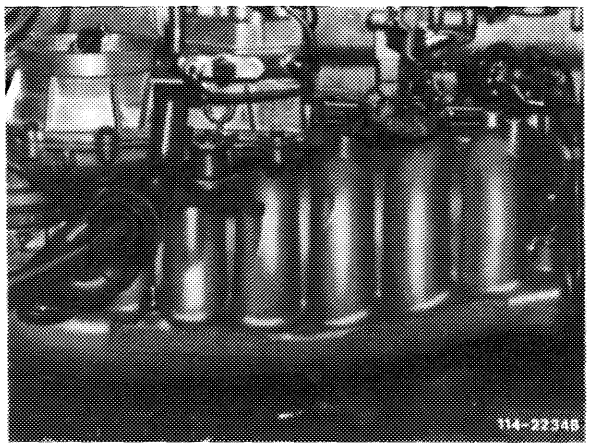
8 Remove heater hose from dashboard.

9 Pull off vacuum line for ignition timing.

10 Unscrew line for diagnosis plug.

11 Unscrew vacuum line for brake unit.

12 Remove decel shutoff valve.

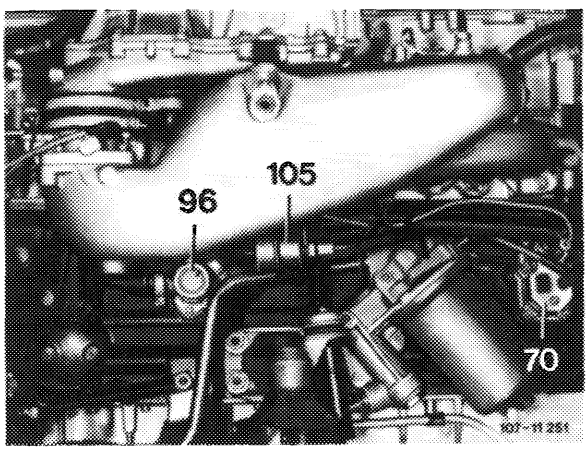


3rd version
with decel shutoff

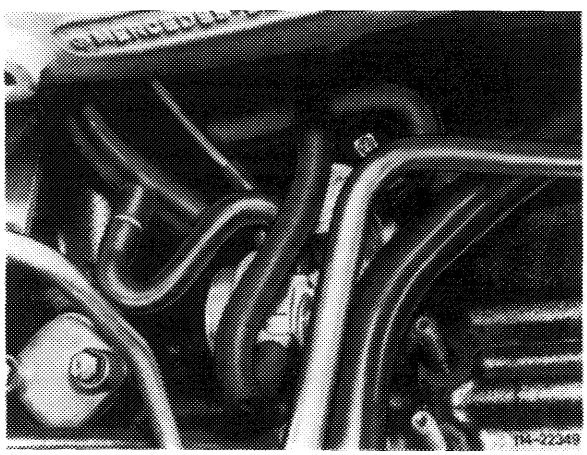
13 Pull off contour hoses after loosening hose clamp and leak line on idle air distributor.

14 On engines prior to increased output, unscrew control pressure line on diaphragm damper (105) and return flow line on warm-up compensator (70).

On model 126, unscrew high-pressure oil line for power steering pump.



15 Unscrew all fastening nuts and screws on intake manifold as well as on support.



16 Unscrew both fastening screws for engine mounts and engine damper. Lift engine with pitlift until intake manifold can be taken off.

On model 126, pull engine to the right and remove intake manifold.

17 Clean intake manifold and check flange faces with straightedge, refinish on surface plate, if required.

Installation

18 For installation proceed vice versa, using a new gasket.

Prior to tightening intake manifold, introduce return flow line from warm-up compensator.

19 Tighten fastening screws for engine mounts to 75 Nm.

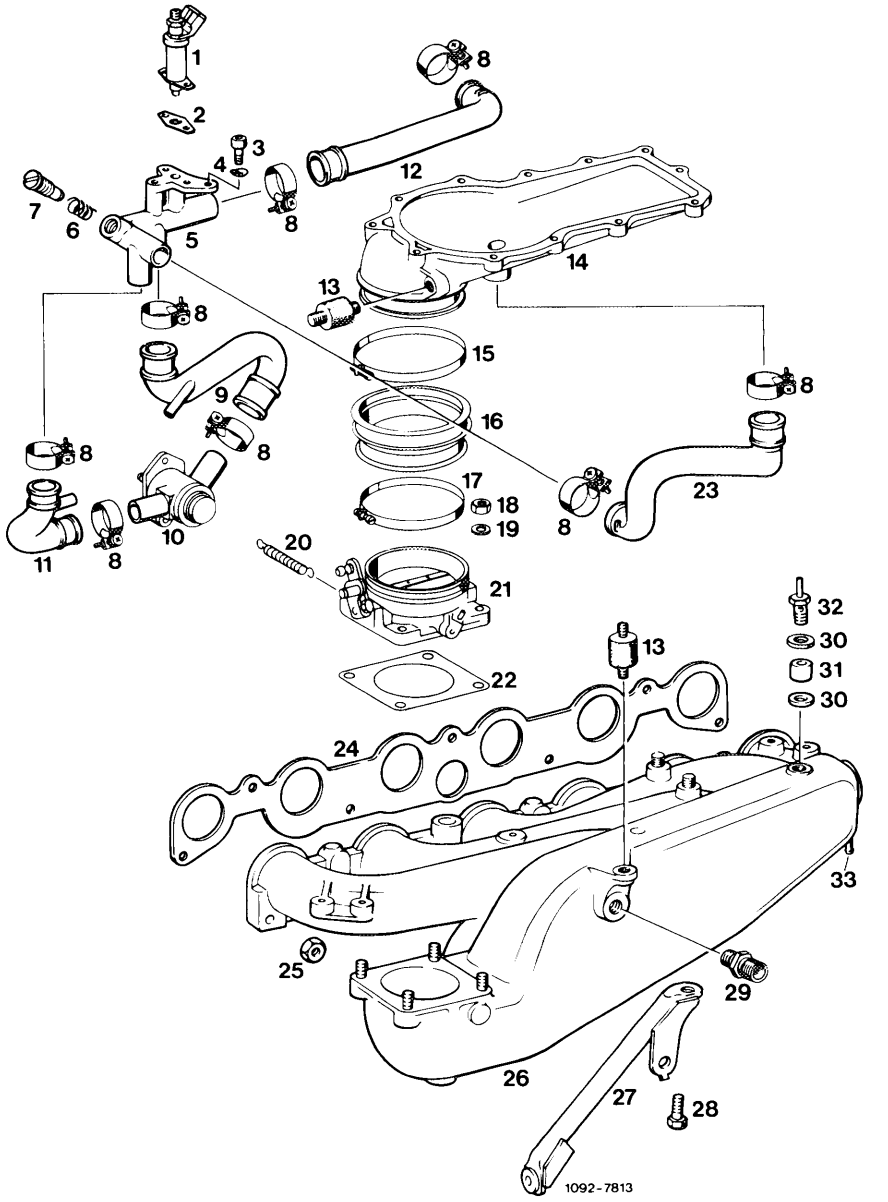
20 Fill-in coolant.

21 Adjust regulating linkage (30–300). Check for easy operation.

22 Run engine, check fuel lines for leaks. Check intake system, fuel distributor and injection valves for leaks by spraying with Iso-Oktan or benzine.

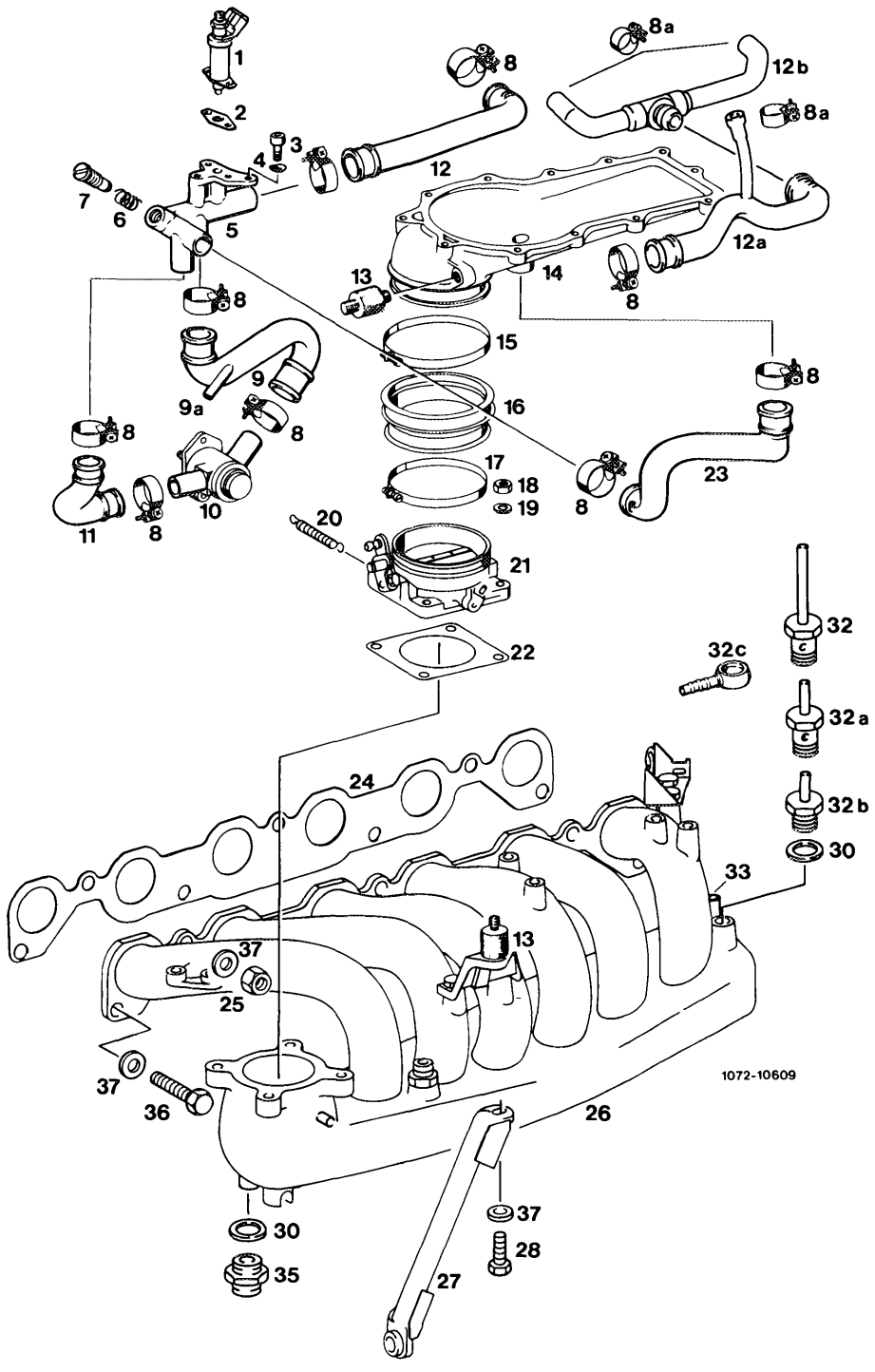
23 Adjust idle speed (07.3–100).

Intake manifold
1st version
up to increased output



1 Cold start valve
2 Gasket
3 Hex. socket screw
4 Corrugated washer
5 Idle speed air distributor
6 Compression spring
7 Idle speed air screw
8 Hose clamp
9 Contour hose
10 Auxiliary valve
11 Contour hose
12 Contour hose
13 Vibration damper
14 Air guide housing
15 Hose clamp
16 Rubber sleeve
17 Hose clamp
18 Nut
19 Washer
20 Return spring
21 Throttle valve housing
22 Gasket
23 Contour hose
24 Gasket
25 Nut
26 Intake manifold
27 Supporting bracket
28 Hex. bolt
29 Double connection
30 Sealing ring
31 Spacing sleeve
32 Vacuum connection
33 Vacuum connection for full load enrichment

2nd version
starting with increased output



1 **Cold start valve**
2 Gasket
3 Hex. socket screw
4 Corrugated washer
5 Idle speed air distributor
6 Compression spring
7 Idle speed air screw
8 *Hose clamp*
8a Hose clamp
9 Contour hose
9a Connection ignition retard
10 Auxiliary air valve
11 Contour hose
12 Contour hose 1st version
12a } Contour hose
12b } 2nd version starting September 1981
13 Vibration damper
14 Air guide housing
15 Hose clamp
16 Rubber sleeve
17 Hose clamp
18 Nut
19 Washer
20 Return spring
21 Throttle valve housing
22 Gasket
23 Contour hose
24 Gasket
25 Nut
26 Intake manifold
27 Supporting bracket
28 Hex. screw
30 Sealing ring
32 Vacuum connection
32a } e. g.: automatic transmission
32b } Central locking system, light
32c } range control
33 Vacuum connection for full load enrichment
35 Double connection for EGR
36 Screw
37 Washer