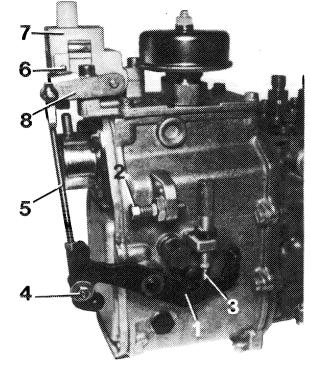
#### Vehicles with automatic transmission

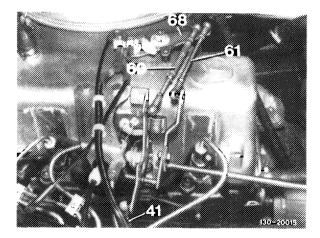
8 Check whether connecting rod (5) is correctly adjusted. For this purpose, push regulating lever (1) to full throttle stop (2). Actuating lever (8) should have max. 0.5 mm play up to full throttle stop (6). If required, adjust connecting rod (5) with adjustable ball head (4). Connecting rod (5) should be set to 122 mm, measured from center of ball pan to center of linkage. Attach connecting rod.



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- Regulating lever Full throttle stop on injection pump
- 3 Idle speed stop Adjustable ball head
- Connecting rod
- Full throttle stop on vacuum control valve
- Vacuum control valve
- 8 Actuating lever for vacuum control valve

9 Adjust idle path rod (60) in fully extended condition to 154 mm and push rod (61) to 137 mm, measured from center to center of ball head.

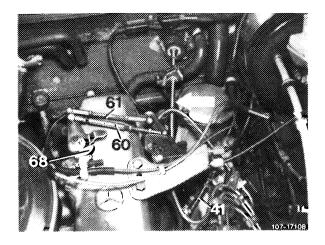


- Push rod
- Idle path rod
- Pull rod

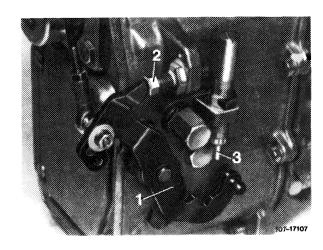
10 Adjust push rod (41) in such a manner that the guide lever (68) is just resting against noticeable control cam lobe (free of tension)

The regulating lever (1) should then rest against idle speed stop (3).

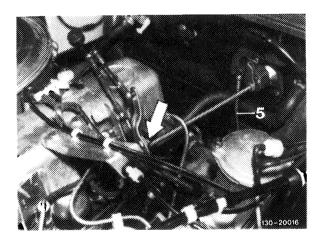
Attach idle path rod (60) and pull rod (61).



11 Check full throttle stop. With engine stopped, step on accelerator pedal from inside vehicle up to stop on kickdown switch. Accelerator pedal and regulating lever (1) should then rest against full throttle stop (2) of injection pump. If required, adjust regulating linkage by means of adjusting screw (arrow in Fig. item 12) in such a manner that the regulating lever rests against full throttle stop (2) of injection pump (1).



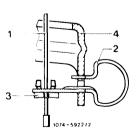
- Regulating lever Full throttle stop
- Idle speed stop
- 12 If the full throttle stop or the idle speed stop is not attained with this adjusting screw (arrow), adjust push rod (5) from longitudinal regulating shaft to accelerator pedal to 186 mm, measured from center of ball socket to center of damping ring, connect linkage.



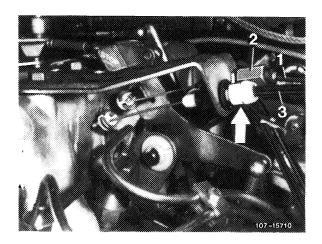
#### Attention!

If regulating linkage is not moving to full throttle stop, check whether contour spring for idle speed adjuster is correctly installed.

- Cable control for idle speed increase
- Contour spring
- Plastic sleeve Guide lever



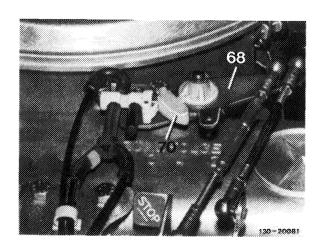
13 Adjust Bowden wire for cruise control/Tempomat. For this purpose, push shutoff lever up to stop. Bowden wire should then rest free of tension against regulating lever.



If required, adjust Bowden wire by means of adjusting nut (arrow). Release shutoff lever (idle speed position). Play for Bowden wire (arrow) will be attained in this position.

#### Engine regulation

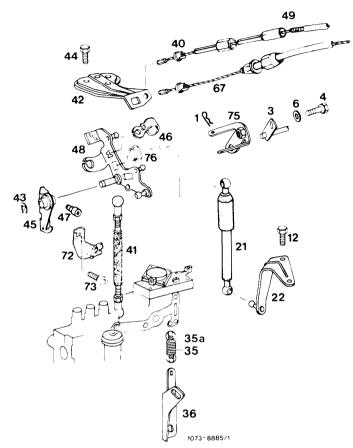
A cap (70) is attached to prevent contamination of plastic runway of guide lever and switchover valves.



#### Attention!

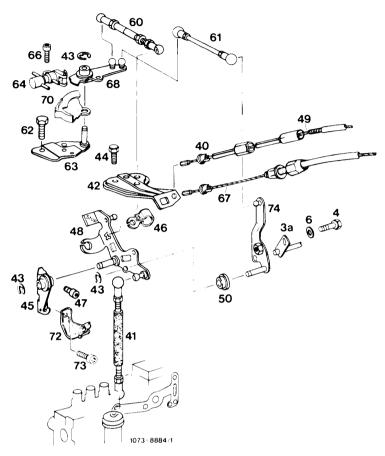
During lubrication jobs on regulating system, do not lubricate runway of plastic cam on guide lever (68).

#### Vehicles with manual transmission



- Lock Longitudinal regulating shaft Adjusting screw Washer
- Hex. screw
- Damper Holder
- 1 4 6 12 21 22
- Compression spring, outer
- Compression spring, inner
- Holder Plastic sleeve 36 40
- Push rod Holder
- 42
- 43 Lock
- 44
- 45
- Hex. screw Bearing Contour spring
- Hex. socket screw
- Angle lever Bowden wire for idle speed adjuster
- Bowden wire for cruise control/Tempomat
- 67 72 73 75 76
- Holder
  Hex. socket screw
  Driver
  Plastic bushing

#### Vehicles with automatic transmission



- 3a Longitudinal regulating shaft 4 Adjusting screw 6 Washer

- Plastic sleeve
- 41 42 43 44 Push rod
- Holder
- Lock
- Hex. screw
- Bearing

- 46 47 Contour spring Hex. socket screw Angle lever
- 48
- 49 Bowden wire for idle speed
  - adjuster
- 50 60 61 Plastic bushing Idle path rod Pull rod

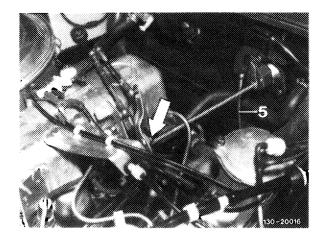
- Hex. screw

- 63
- 64 66
- Holder Switchover valve Hex. socket screw
- Bowden wire for cruise control/Tempomat
- Guide lever

- Cap Holder Hex. socket screw Guide lever
- 67 68 70 72 73 74

#### Chassis regulation

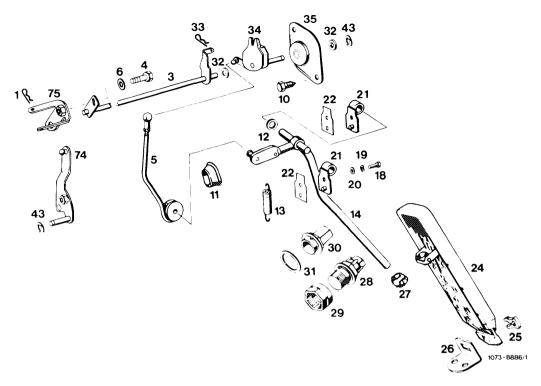
To reduce vibrations on accelerator pedal, the connection between engine and chassis regulation has been displaced from angle lever on valve cap to front wall. The bearing on front wall has been changed at the same time.



#### Attention

When removing transmission, also remove longitudinal regulating shaft, so that bearing bracket cannot be damaged by tilting of engine.

### Chassis regulation with longitudinal regulating shaft Model 123.1 (SA) 1981



Lock, manual transmission Longitudinal regulating shaft Adjusting screw Push rod Adjusting nut
Full throttle stop
Washer
Plastic spacing ring
Lock Hex. screw Domed washer 29 30 31 32 33 34 35 43 74 75 1 3 4 5 6 19 20 21 22 24 25 26 27 28 Washer Bearing Gasket Washer Accelerator pedal Clip Regulating lever with damper Bearing holder Screw Rubber grommet 12 13 14 Plastic spacing ring Fastening plate Lock Return spring Accelerator lever Joint Kickdown switch Guide lever, automatic transmission Driver, mechanical transmission

#### G. Engine 617 in model 123.1 (sa) 1981 with MW-injection pump

#### Length of regulating linkage

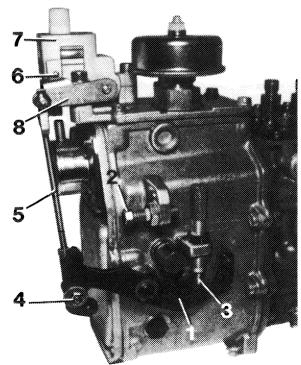
Idle path rod (60 in Fig. item 5) in extended condition	154 mm	
Pull rod (61 in Fig. item 5)	137 mm	
Push rod (41 in Fig. item 5)	184 mm <sup>1)</sup>	
Push rod (5 in Fig. item 10)	198 mm	

#### Auxiliary tool (spare part)

Adiostica alsoca	180 072 03 93
Adjusting sleeve	180 072 03 93

#### Adjustment

- 1 Check regulating linkage for easy operation and distortion. Replace damaged parts, if required.
- 2 Disconnect all regulating rods.
- 3 Check whether regulating lever (1) of injection pump rests against idle speed stop (3).

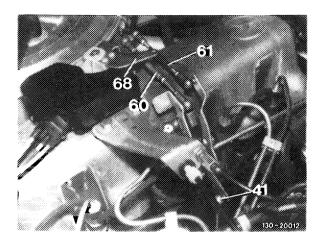


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- Regulating lever Full throttle stop on injection pump
- Idle speed stop
  Adjustable ball head
  Connecting rod
- Full throttle stop on vacuum control valve Vacuum control valve
- Actuating lever for vacuum control valve

4 Check whether connecting rod (5) is correctly adjusted. For this purpose, push regulating lever (1) to full throttle stop (2). Actuating lever (8) should then have max. 0.5 mm play up to full throttle stop (6). If required, adjust connecting rod (5) with adjustable ball head (4). Connecting rod (5) should be set to 122 mm, measured from center of ball socket to center of connecting rod linkage.

5 Set idle path rod (60) in fully extended condition to 154 mm and pull rod (61) to 137 mm, measured from center to center of ball head.



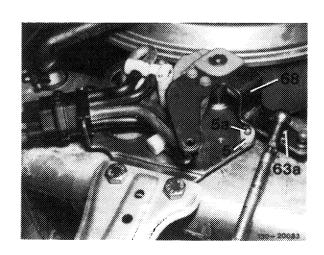
41 Push rod 60 Idle path rod 61 Pull rod

6 Adjust push rod (41) in such a manner that guide lever (68) is just resting against noticeable control cam lobe.

Regulating lever (1) should then rest against idle speed stop (3) (Fig. item 1).

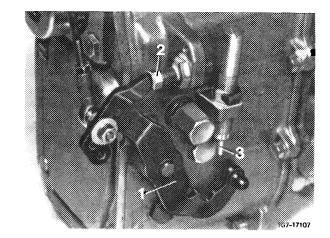
Connect idle path rod (60) and pull rod (61).

- 7 Plug adjusting sleeve (5) on stop bolt (5a).
- 8 Move guide lever (68) to full throttle at adjusting sleeve (5). Regulating lever (1) should then rest against full load stop (2) on injection pump. If required, set adjustable ball head (63a) in slot as required.

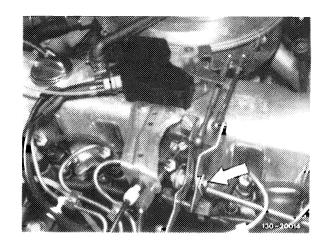


5 Adjusting sleeve5a Stop bolt

63a Adjustable ball head 68 Guide lever 9 Check full throttle stop. With the engine stopped, step on accelerator pedal from inside vehicle up to stop on kickdown switch. Regulating lever (1) should then rest against full throttle stop of injection pump (2). If required, adjust regulating linkage with adjusting screw (arrow in Fig. item 10) in such a manner that regulating lever rests against full throttle stop (2) on injection pump (1).



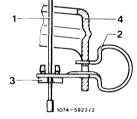
10 If the full throttle stop (2) or the idle speed stop (3) is not attained with adjusting screw (arrow), adjust push rod (5) from longitudinal regulating shaft to accelerating pedal to 198 mm, measured from center of ball socket to center of damping ring. Connect linkage.



#### Attention!

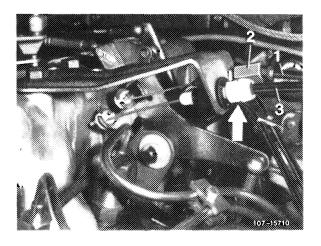
If regulating linkage is not moving to full throttle, check whether contour spring in idle speed adjuster is correctly installed.

- 1 Cable control for idle speed increase
- 2 Contour spring
- 3 Plastic sleeve 4 Guide lever



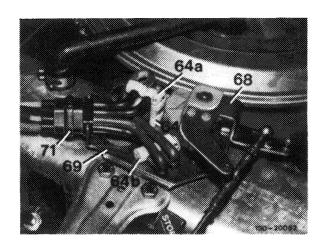
11 Adjust Bowden wire for cruise control/Tempomat. For this purpose, push shutoff lever up to stop. Bowden wire should then rest free of tension against regulating lever.

Adjust Bowden wire with adjusting nut (arrow), if required. Release shutoff lever (idle speed position). Play for Bowden wire (arrow) will be attained in this position.



#### Engine regulation

Three switchover valves (64, 64a, 64b) are mounted on a valve plate (69) to control EGR and automatic transmission. Connection is made by means of a central plug (71). A cap is mounted to prevent contamination of plastic runway.



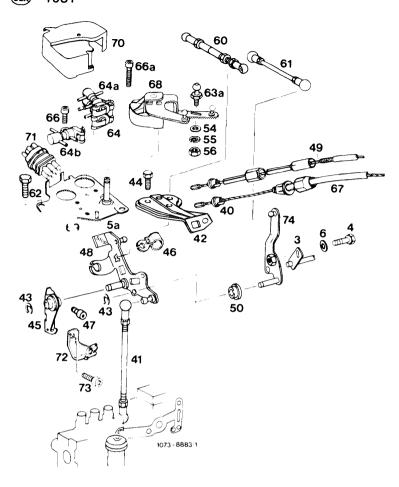
64 Switchover valve for automatic transmission 64a Switchover valve, idle speed shutoff — EGR 64b Switchover valve, full throttle shutoff — EGR 68 Guide lever

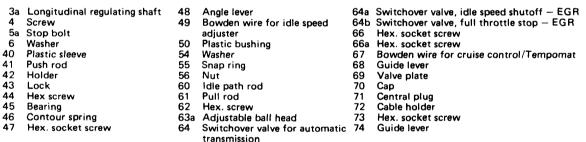
69 Valve plate 71 Central plug

#### Attention!

During lubricating jobs on regulating system, do not lubricate runway of plastic cam on guide lever (68).

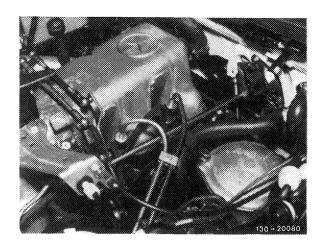
# Engine regulation Engine 617 in model 123.1 MW-injection pump with mechanical governor 1981





#### Chassis regulation

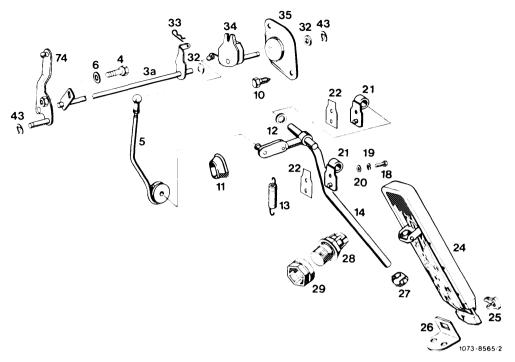
To reduce vibrations on accelerator pedal, the connection between engine and chassis regulation has been displaced from angle lever on valve cap to front wall. Bearing on front wall has been changed at the same time.



#### Attention!

When removing transmission, also remove longitudinal regulating shaft, so that bearing bracket is not damaged by tilting of engine.

## 



4	Longitudinal regulating shaft Adjusting screw Push rod Washer Screw Rubber grommet Plastic spacing ring Return spring Accelerator pedal	18 19 20 21 22 24 25 26 27	Hex. screw Domed washer Washer Bearing Gasket Accelerator pedal Clip Fastening plate Joint	28 29 32 33 34 35 43 74	Kickdown switch Adjusting nut Plastic spacing ring Lock Regulating lever with damper Bearing holder Lock Guide lever
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