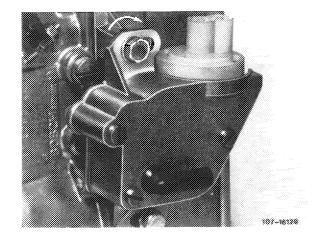
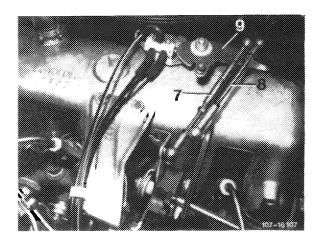
2 Adjust vacuum control valve. For this purpose, loosen fastening screws. Push regulating lever of injection pump to full load and turn vacuum control valve clockwise (arrow) up to noticeable stop. In this position, tighten fastening screws again.



3 Adjust and attach idle path rod (7) in fully extended condition and pull rod (8) to 137 mm, measure from center to center of ball head.



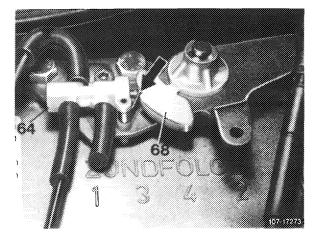
7 Idle path rod 8 Pull rod

4 Adjust push rod (4) in such a manner that max. 0.5 mm play (refer to arrow) is available between control cam lobe of guide lever (68) and link of switchover valve (64). Regulating lever on injection pump should rest against idle speed stop, and idle path rod (7) should be completely extended.

Attention!

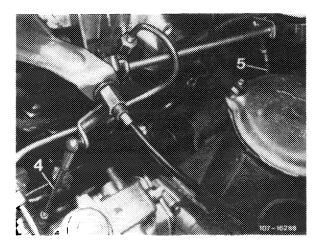
Do not actuate switchover valve in this position.



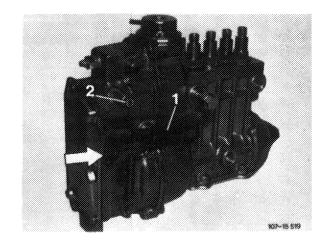


Attention!

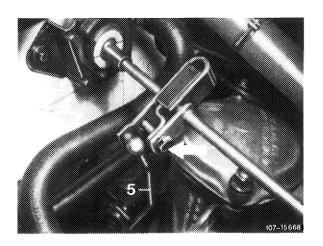
During lubricating jobs for regulating system, do not lubricate runway of plastic cam on guide lever.



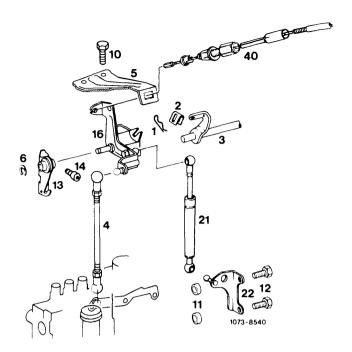
7 Check full throttle stop. With engine stopped, step on accelerator pedal from inside vehicle down to stop of kickdown switch. Accelerator pedal and regulating lever should rest against full throttle stop (2). If required, adjust regulating linkage with adjusting screw (arrow) in such a manner that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



If the full throttle or idle speed stop is not attained with this adjustment, adjust connecting rod (5) from longitudinal regulating shaft to accelerator pedal to 213 mm, measured from center of ball socket to center of damping ring and attach.



Engine regulation Engine 615, 616, 617 in model 123.1 with manual transmission M/RSF-injection pump with mechanical governor

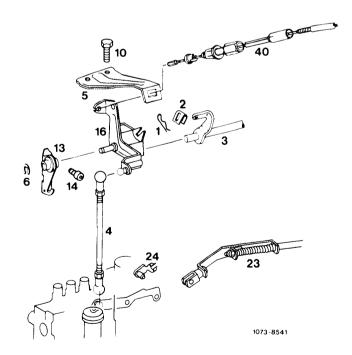


- Lock
- Eye
 Longitudinal regulating shaft
 Push rod
- Holder

- 6 Lock
- 10 Hex screw
- Spacing ring Hex screw
- Bearing
- Hex socket screw
- Angle lever Damper 16
- Holder
- Bowden wire for idle speed adjuster

Engine regulation

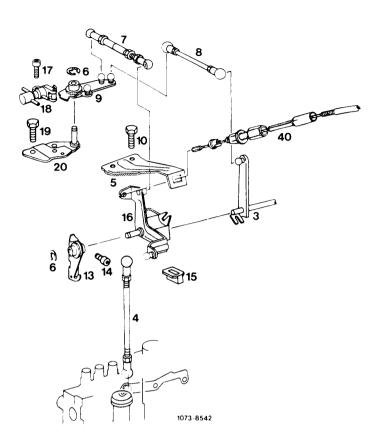
Engine 616 in model 123.1 with automatic transmission 1st version M/RSF-injection pump with mechanical governor



- Lock
- Longitudinal regulating shaft Push rod
- Holder

- Lock
- 10 Hex screw
- 13 14 Bearing
- Hex socket screw Angle lever
- Control pressure rod
- Lock for control pressure rod
- Bowden wire for idle speed adjuster

Engine regulation Engine 615, 616, 617 in model 123.1 with automatic transmission 2nd version M/RSF-injection pump with mechanical governor



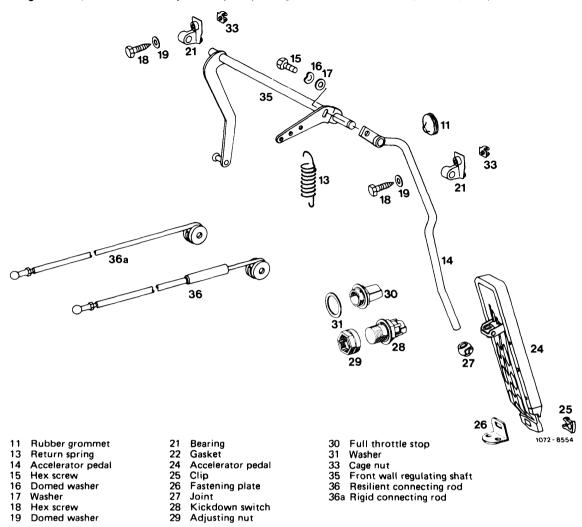
- Longitudinal regulating shaft Push rod Holder 3 4 5 6 7 8

- Lock Idle path rod Pull rod

- Guide lever
- Hex screw
- 10 13 14 15 Bearing
- Hex socket screw Plastic hub
- 16 Angle lever
- Hex socket screw
- Vacuum control valve
- 18 19 Hex screw
- 20 40 Bearing
- Bowden wire for idle speed adjuster

Chassis regulation with front wall regulating shaft model 115.1

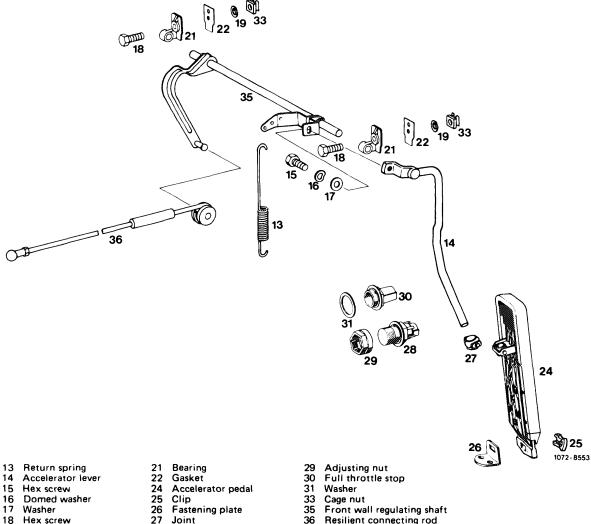
Engine 615, 616 with M-injection pump, Engine 617 with MW-injection pump



Domed washer

Chassis regulation with front wall regulating shaft model 123.1

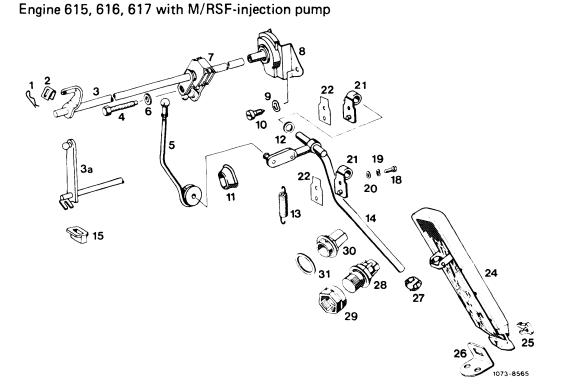
Engine 615, 616 with M-injection pump, Engine 616, 617 with MW-injection pump



- Accelerator lever
- Hex screw
- 16 17 18 19 Domed washer Washer
- Hex screw
- Domed washer
- 22 24 25 26 27 28 Accelerator pedal Clip Fastening plate Joint

- Kickdown switch
- Washer
- Cage nut
- Front wall regulating shaft Resilient connecting rod

Chassis regulation with longitudinal regulating shaft model 123.1



- Lock, manual transmission
- Spring, manual transmission
- Longitudinal regulating shaft manual transmission
- Longitudinal regulating shaft automatic transmission
- Adjusting screw
 Push rod
- Washer
- Angle lever with damper Bearing for regulating shaft
- Domed washer

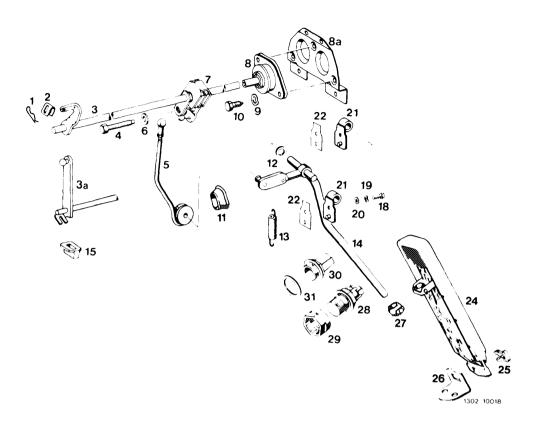
- Screw Rubber grommet Plastic spacing ring
- Return spring 13
- Accelerator lever Plastic hub
- Hex screw
- 14 15 18 19 20 21 Domed washer
- Washer
- Bearing

- 22 Gasket
 24 Accelerator pedal
 25 Clip
 26 Fastening plate
 27 Joint
 28 Kickdown switch

- Adjusting nut
 Full throttle stop
- Washer

Chassis regulation with longitudinal regulating shaft 2nd version Model 123.1

Engine 615, 616, 617 with M/RSF-injection pump



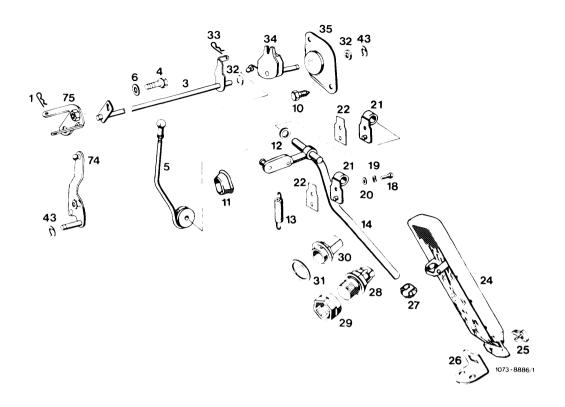
- Lock, manual transmission Spring, manual transmission Longitudinal regulating shaft,
- manual transmission
- Longitudinal regulating shaft, automatic transmission
- Adjusting schrew
- Push rod Washer
- Angle lever with damper
- Bearing for regulating shaft
- Plate
- Domed washer

- Screw Rubber grommet Plastic spacing ring Return spring
- Accelerator lever Plastic hub

- Hex. screw Domed washer Washer
- Bearing
- Gasket Accelerator pedal
- Clip Fastening plate Joint 25 26 27 28 29 30 31
- Kickdown switch
- Adjusting nut Full throttle stop
- Washer

Chassis regulation with longitudinal regulating shaft 3rd version Model 123.1

Engine 615, 616, 617 with M/RSF-injection pump



- 1 3 4 5 6
- Lock, manual transmission Longitudinal regulating shaft Adjusting screw Push rod Washer Screw

- 10 11
- Screw Rubber grommet
- Plastic spacing ring
- Return spring
- Accelerator lever

- Hex. screw Domed washer
- 18 19 20 21 22 24 25 26 27 28 Washer
- Bearing
- Gasket
- Accelerator pedal Clip Fastening plate

- Joint Kickdown switch
- 29 30 31 32 Adjusting nut Full throttle stop
- Washer
- Plastic spacing ring
- Lock
 Regulating lever with dampfer
 Bearing holder 33 34 35

- Guide lever, automatic transmission
- Driver, manual transmission

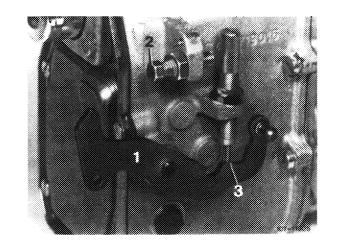
E. Engine 616, 617 in model 123.1 (sa) 1980 with MW-injection pump

Length of regulating linkage

Idle path rod (60 in Fig. item 8) in extended condition	154 mm
Pull rod (61 in Fig. item 8)	137 mm
Push rod (5 in Fig. item 6)	186 mm
Connecting rod (5 in Fig. item 7)	122 mm

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).
 - 1 Regulating lever2 Full throttle stop
 - 3 Idle speed stop

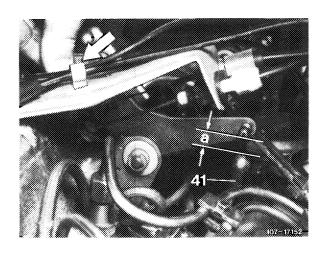


Attention!

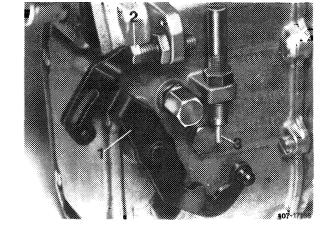
On engine **616**, push rod (41) should be covered with an insulating hose.

Vehicles with manual transmission

4 Adjust push rod (41). For this purpose, push shutoff lever (arrow) against stop. Adjust push rod in such a manner that 5–6 mm clearance (distance "a") is available between bottom edge of ball head and upper edge of ball socket. Attach push rod.

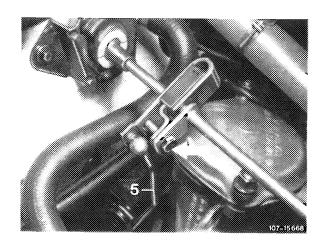


5 Check full throttle stop. With engine stopped, step on accelerator pedal from inside vehicle down to stop. Accelerator pedal and regulating lever (1) should then rest against full load stop of injection pump (2). If required, adjust regulating linkage by means of adjusting screw in such a manner that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



- Regulating lever Full throttle stop Idle speed stop

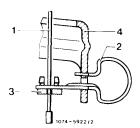
6 If full throttle or idle speed stop (3) is not attained with this adjusting screw, adjust push rod (5) from longitudinal regulating shaft to accelerator pedal to 186 mm, measured from center of ball socket to center of damping ring.



Attention!

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

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

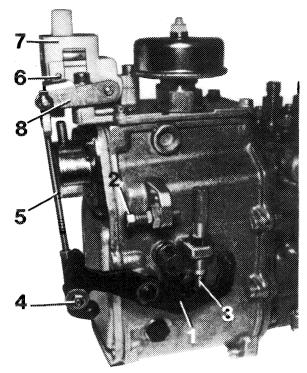


Vehicles with automatic transmission

7 Check whether connecting rod (5) is correctly adjusted. For this purpose, push regulating lever (1) to full throttle stop (2). The actuating lever (8) should have max. 0.5 mm play up to full load stop (6). If required, adjust connecting rod (5) by means of adjustable ball head (4). Set connecting rod (5) to 122 mm, measured from center of ball socket to center of linkage. Attach connecting rod.

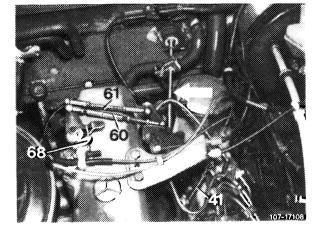


- Idle speed stop
- Adjustable ball head
- Connecting rod
- Full load stop on vacuum control valve Vacuum control valve
- Actuating lever for vacuum control valve



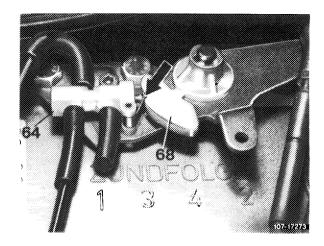
107 - 17 189

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



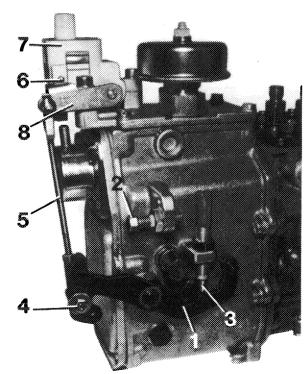
- Push rod
- Idle path rod
- Pull rod

9 Adjust push rod (41) in such a manner that max. 0.5 mm play is available between control cam lobe of guide lever (68) and link of switch-over valve (64) (arrow). Regulating lever (1) should rest against idle speed stop (3).



Attention!

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

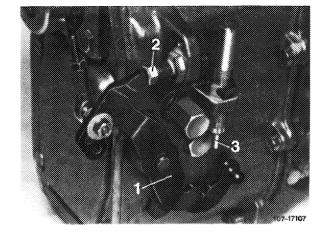


107-17189

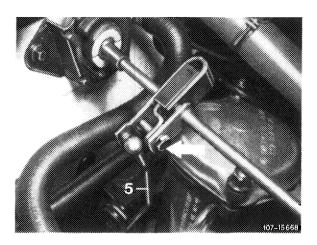
- Regulating lever Full load stop Idle speed stop

- Adjustable ball head
 Connecting rod
 Full load stop on vacuum control valve
 Vacuum control valve
 Actuating lever for vacuum control valve

10 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 of injection pump (2). If required, adjust regulating linkage with adjusting screw (arrow) in such a manner that the regulating lever rests against full throttle stop (2) on injection pump (1).



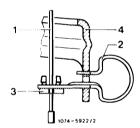
- Regulating lever Full throttle stop
- 2 Full throttle sto 3 Idle speed stop



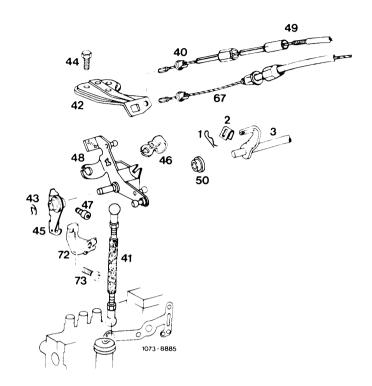
Attention!

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

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



Vehicles with manual transmission

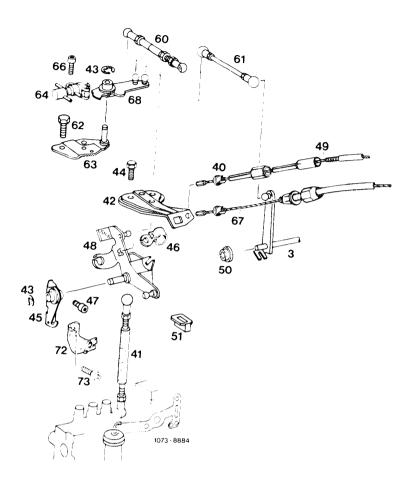


- Lock 1 2 3
- Spring
 Longitudinal regulating
 shaft, manual transmission
 Plastic sleeve
- Push rod

- Holder
- Fuse Hex. screw
- 43 44 45
- 46
- Bearing
 Contour spring
 Hex. socket screw

- 49 50 67 72 73
- Angle lever
 Bowden wire for idle speed adjuster
 Plastic bushing
 Bowden wire for cruise control/Tempomat
- Holder Hex. socket screw

Vehicles with automatic transmission



- Longitudinal regulating shaft Plastic sleeve
- Push rod
- 3 40 41 42 43 44 45 46 Holder

- Lock Hex. screw Bearing Contour spring

- Hex, socket screw Angle lever Bowden wire for idle speed
- adjuster
 Plastic bushing
 Plastic hub
 Idle path rod

- Pull rod
- Hex. screw

- Holder
- Switchover valve
- Hex. socket screw
- 66 67 Bowden wire for cruise control/Tempomat
- Guide lever Holder 68 72 73
- Hex. socket screw

F. Engine 616 in model 123.1 (sa) 1981 with MW-injection pump

Lenght of regulating linkage

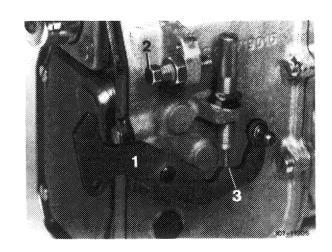
Idle path rod (60 in Fig. item 9) in extended condition	154 mm
Pull rod (61 in Fig. item 9)	137 mm
Push rod (5 in Fig. item 6)	186 mm
Connecting rod (5 in Fig. item 8)	122 mm

Adjustment

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

Attention!

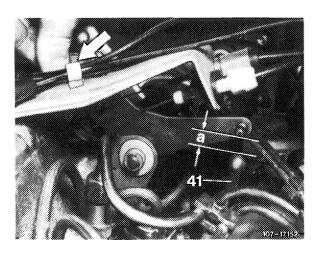
Push rod (41) should be covered with an insulating hose.



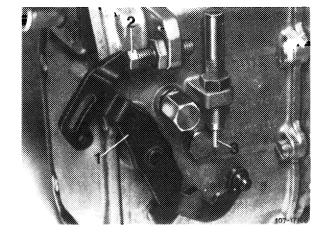
- 1 Regulating lever
- 2 Full throttle stop3 Idle speed stop

Vehicles with manual transmission

4 Adjust push rod (41). For this purpose, push shutoff lever (arrow) against stop. Adjust push rod in such a manner that a clearance of 5–6 mm (distance "a") is available between bottom edge of ball head and upper edge of ball socket. Connect push rod.

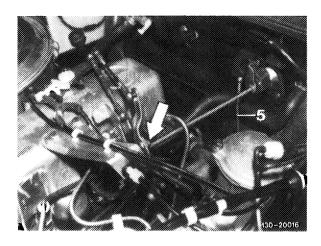


5 Check full throttle stop. With engine stopped, step down on accelerator pedal from inside vehicle up to stop. Accelerator pedal and regulating lever (1) should then rest against full throttle stop (2) of injection pump. If required, adjust regulating linkage with adjusting screw (arrow in Fig. item 6) in such a manner that regulating lever (1) rests against full throttle stop (2) of injection pump.



- 1 Regulating lever2 Full throttle stop
- Idle speed stop

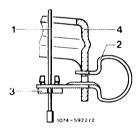
6 If full throttle or idle speed stop (2 or 3) is not attained with this adjustment, adjust push rod (5) from longitudinal regulating shaft to accelerator pedal to 186 mm, measured from center of ball socket to center of damping ring and connect.



Attention!

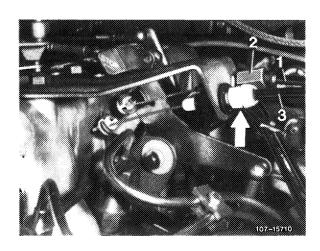
If regulating linkage is not moving to full throttle stop, check whether contour spring for idle speed adjuster is correctly installed.

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



7 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 with adjusting nut (arrow). Release shutoff lever (idle speed position). This will provide Bowden wire with the required play (arrow).



arrow = Bowden wire for cruise control/Tempomat