

35 Foot pedals

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Specifications

Pedals

Model	1502	1602	1802	2002	2002 A	2002 T1	2002 tii
Clutch pedal play mm (in)		approx. 5.0 ¹⁾ (0.20)		approx. 5.0 (0.20) (approx. 20...25) ²⁾ (0.79 ... 0.98)	—	approx. 5.0 (0.20) (approx. 20...25) ²⁾ (0.79 ... 0.98)	approx. 5.0 (0.20)
Clutch pedal travel mm (in)	167 + 5 ⁴⁾ (6.57 + 0.20)	167 + 5 ³⁾ /4 (6.57 + 0.20)		167 + 5 ⁵⁾ (174.0) ²⁾ /6 (6.57 + 0.20) (6.85)	—	167 + 5 (174.0) ²⁾ (6.57 + 0.20) (6.85)	167 + 5 ⁵⁾ (6.57 + 0.20)
Brake pedal travel ⁹⁾ mm (in)		169 ⁷⁾ (6.65)			167 ⁷⁾ (6.50)	169 (6.65)	159 ⁸⁾ (6.26)

1) BMW 1600-2 with mechanical clutch: approx. 20...25 mm (0.79 ... 0.98)

2) BMW 2002 up to chassis No. 1 626 693, BMW 2002 RHD up to chassis No. 1 651 034, BMW 2002 USA up to chassis No. 1 665 200, BMW 2002 T1 up to chassis No. 1 681 795

3) BMW 1600-2 with mechanical clutch: 173.5 mm (6.83 in)

4) BMW 1600-2 RHD: 160⁺⁵₋₂ mm (6.30^{+0.20}_{-0.08} in) BMW 1502 and 1602 RHD: 160⁺⁹₋₃ mm (6.30^{+0.35}_{-0.12} in)

5) RHD vehicles: 160⁺⁹₋₃ mm (6.30^{+0.35}_{-0.12} in)

6) RHD vehicles: 160⁺⁵₋₂ mm (6.30^{+0.20}_{-0.08} in)

7) BMW 1502 RHD, 1602 RHD, 2002 A RHD, touring 1602 RHD, touring 1802 RHD, touring 2002 RHD 160⁺⁵₋₂ mm (6.3^{+0.20}_{-0.08} in)

8) BMW 2002 tii RHD, touring 2002 tii RHD: 160⁺⁵₋₂ mm (6.30^{+0.20}_{-0.08} in)

9) Final stop of brake pedal must be in master cylinder

Tightening torques in Nm (mkp) (ft.lb)

Clutch pedal dowel pin	32 + 2 (3.2 + 0.2)	(23.1 + 1.4)	Fastening nut for ring bolt on tension spring/ clutch pedal	7 + 1.2 (0.7 + 0.12)	(5.1 + 0.9)
Pedal support fastening bolt	43 + 5 (4.3 + 0.5)	(31.1 + 3.6)	Angular support on brake servo	22 + 2 (2.2 + 0.2)	(15.9 + 1.4)
Lock nut for brake pedal pull rod	14 + 3 (1.4 + 0.3)	(10.1 + 2.2)	Relay lever on brake pedal bearing block	49 + 5 (4.9 + 0.5)	(35.4 + 3.6)
Angular support for brake servo on metal sheet	22 + 2 (2.2 + 0.2)	(15.9 + 1.4)			
Lock nut for thrust rod/clutch release ¹⁾	17 + 3 (1.7 + 0.3)	(12.3 + 2.2)			

1) BMW 1600-2 (mechanical clutch)

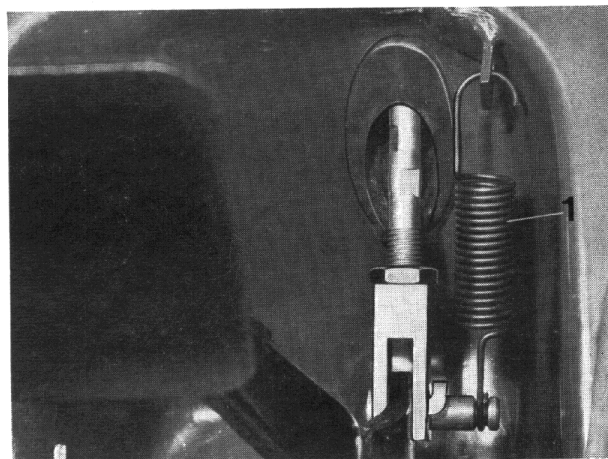
2) Pedal support fastening bolts for RHD cars 49 + 5 mm (4.9 + 0.5 in)

35 21 000 Removing and fitting brake pedal lever

A) BMW 1600-2 / 2002 / 2002 TI

Remove and fit clutch pedal lever. 35 31 000.

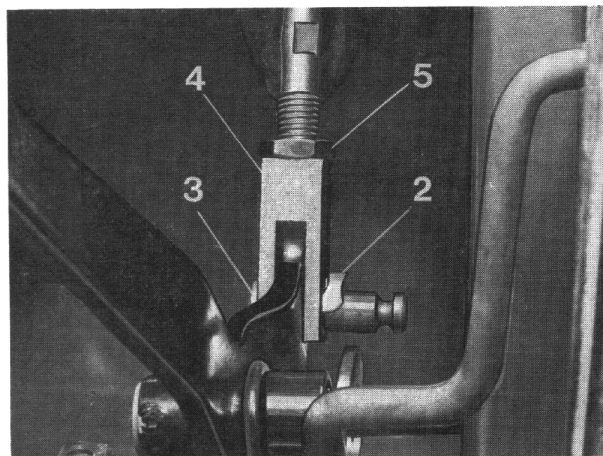
Detach tension spring (1) at bearing block.



Lift out pin retainer (2).

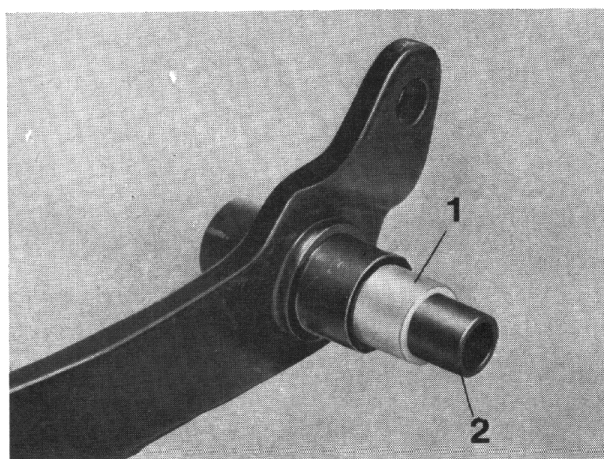
Press out pin (3).

Fitting instruction: The brake pedal setting can be adjusted at the fork head (4) after slackening the lock nut (5) — brake pedal should be in alignment with clutch pedal.



Remove brake pedal lever with bearing bush (1) and spacer sleeve (2) and renew bearing bush (1) if necessary.

Fitting instruction: Coat bearing bush with Molykote Longterm 2 before inserting.

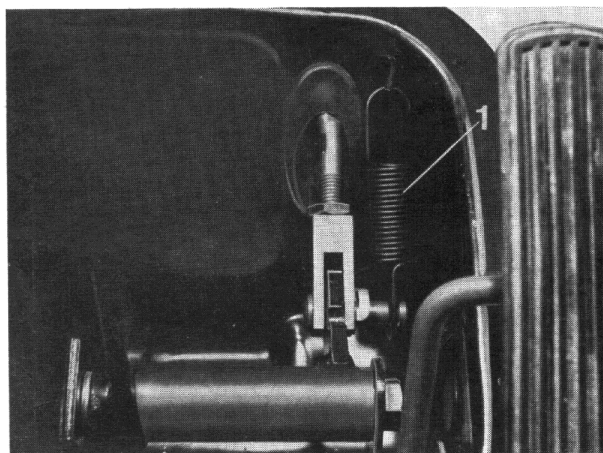


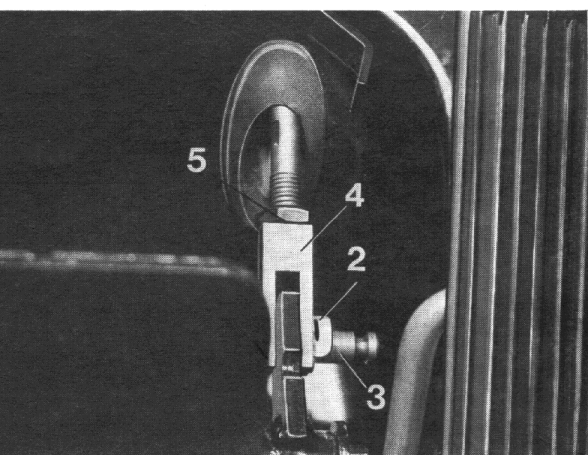
B) BMW 2002 Automatic

Loosen carpet around pedal mechanism as much as necessary.

Remove damping lining.

Detach tension spring (1) at bearing block.

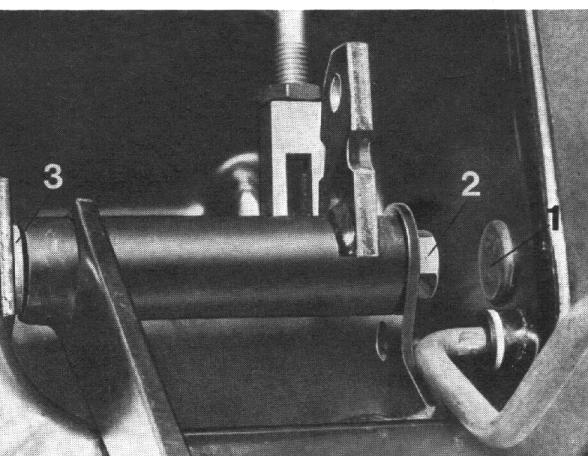




Lift out pin retainer (2).

Press out pin (3).

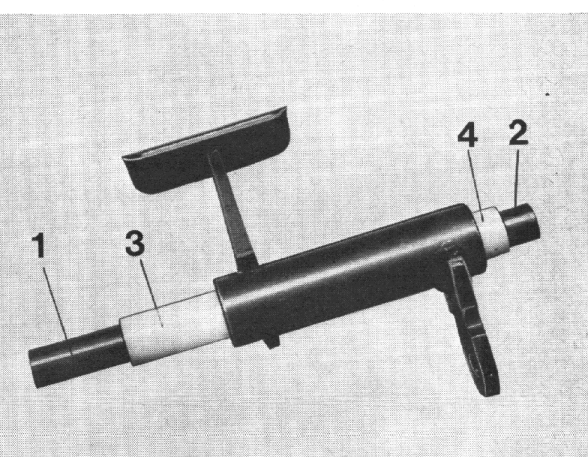
Fitting instruction: The brake pedal setting can be adjusted at the fork head (4) after slackening the lock nut (5).



Press off rubber seal plug (1) to outside.

Loosen outer screw (2) on bearing block¹⁾ and press out through the opening of the rubber seal cap.

Fitting instruction: Do not forget washer (3) between brake pedal lever and bearing block contact surface.



Take out brake pedal lever.

Press out spacer sleeve (1 and 2) with bearing bush (3 and 4).

Fitting instruction: Spacer sleeves with bearing bushes of the long type should be fitted on the left in the brake pedal lever.

Coat bearing bushes with Molykote Longterm 2 before inserting.

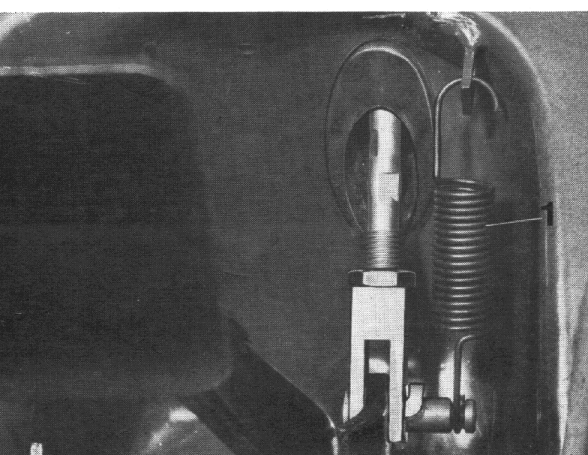


35 21 041 Renewing tension spring on brake pedal lever

Loosen carpet around pedal mechanism as much as necessary.

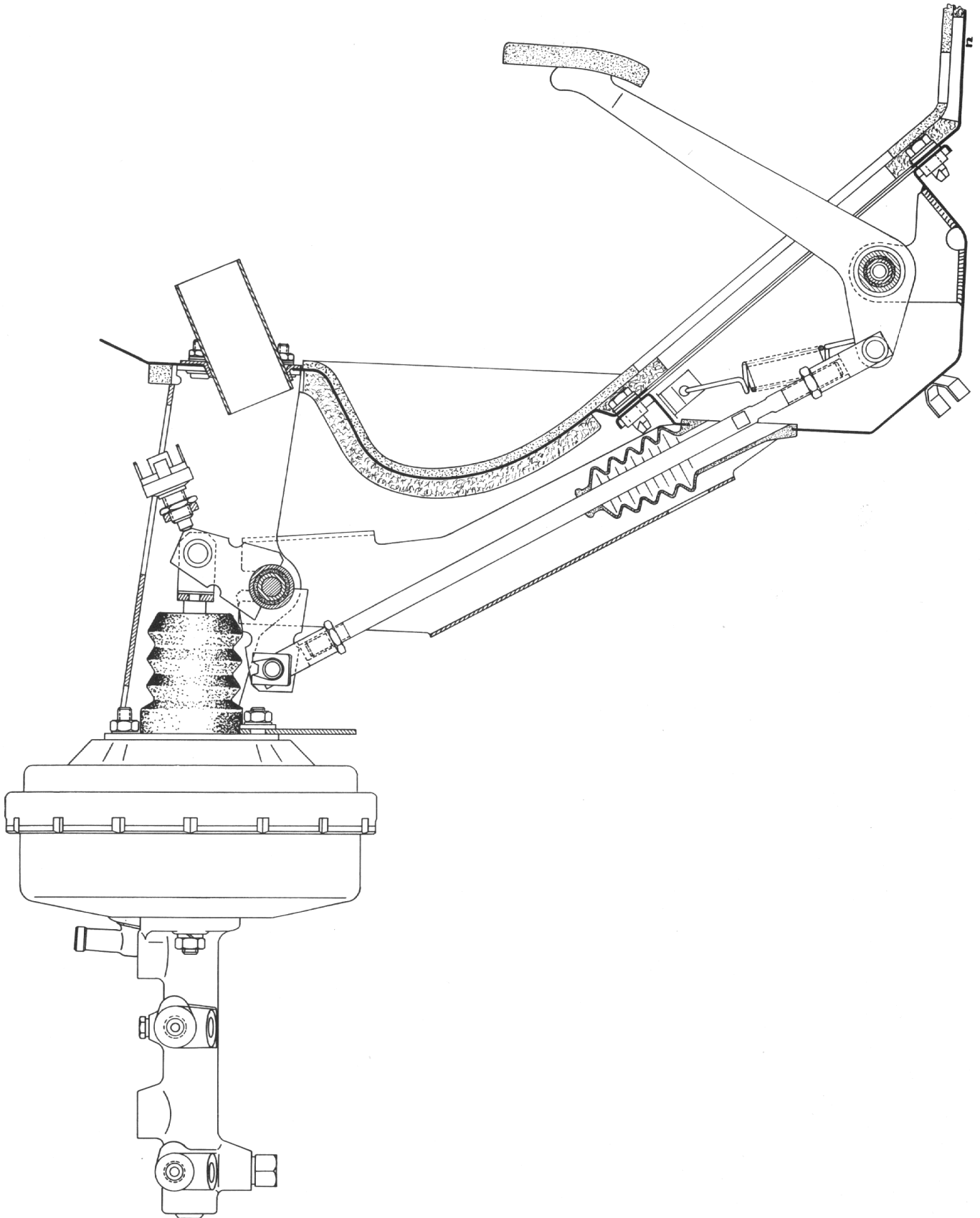
Remove damping lining.

Detach tension spring (1).



¹⁾ See Technical data.

Layout — brake pedal assembly



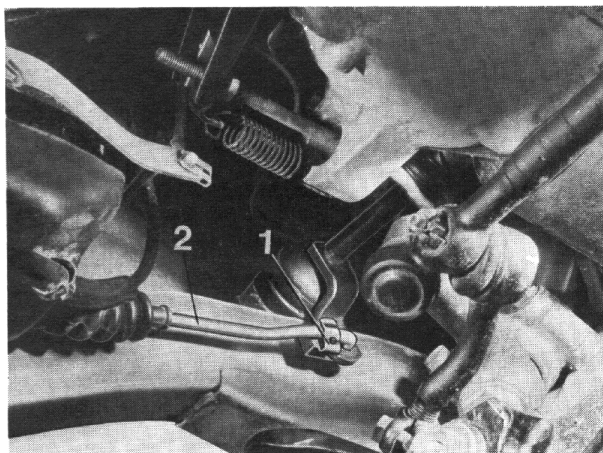
35 31 000 Removal and fitting of clutch pedal

(A) BMW 1600-2

Disconnect support bracket (1).

Force pull rod (2) out of intermediate shaft.

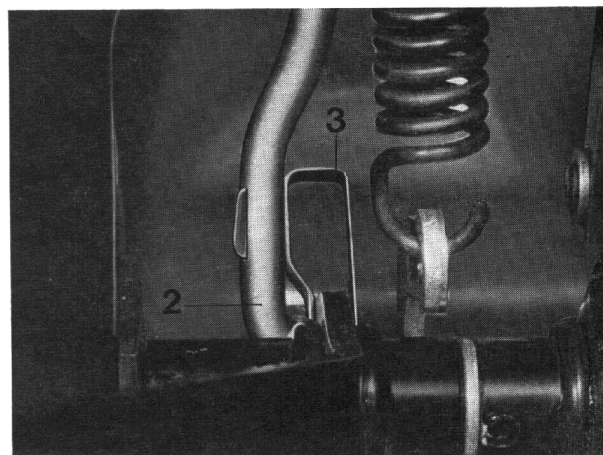
Note when fitting: Note correct position of bearing bush.



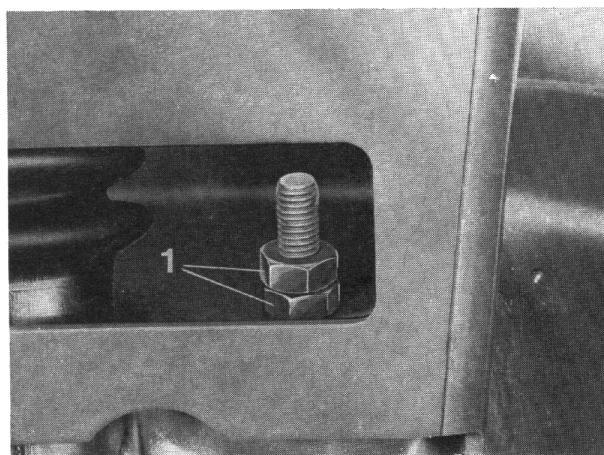
Remove carpet from pedal area as far as necessary.

Take off damper layer.

Disconnect support bracket (3) and pull rod (2) from clutch pedal.



Press clutch pedal right down and unscrew fastening nuts (1) from ring bolt.

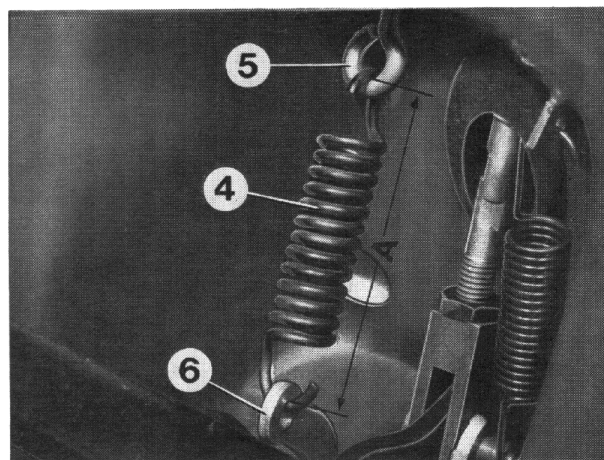


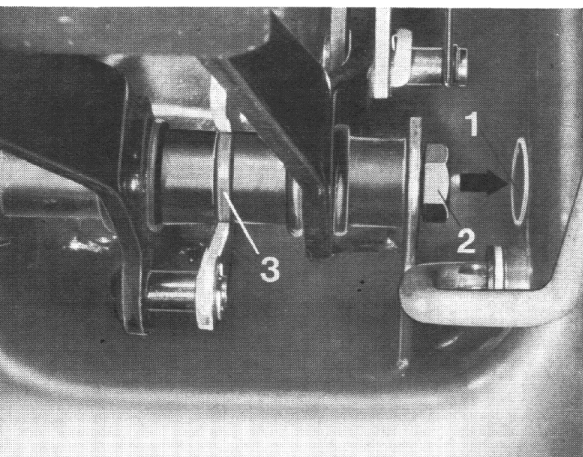
Disconnect tension spring (4).

Note when fitting: Adjust tension spring (4) to correct length.

(A = 92 mm/3.622")

Coat Molycote Longterm 2 on the ends of tension spring (4), i. e. at ring bolt (5) and at spring strap (6).



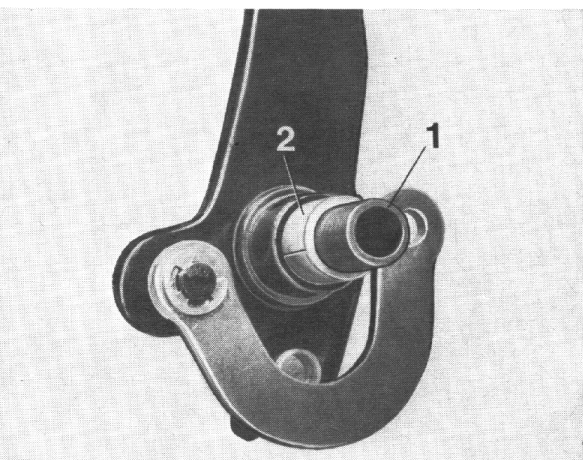


Force rubber plug (1) out of the bearing block at the right-hand side, towards the engine compartment.
Unscrew fastening nut on far left bearing block for bolt (2) ¹⁾.

Push bolt (2) through the aperture thus obtained in the bearing block until the clutch pedal can be removed.

Note when fitting: Do not forget shim (3) between the clutch pedal and the brake pedal.

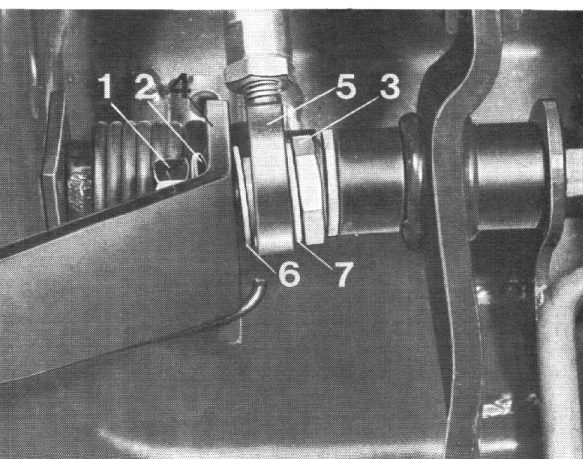
Important: Note correct position of clutch pedal on stop.



Force out spacer sleeve (1) and bearing bush (2).

Note when fitting: Apply Molykote Longterm 2 when fitting bearing bush.

Adjustment of clutch play cf. 21 00 004.

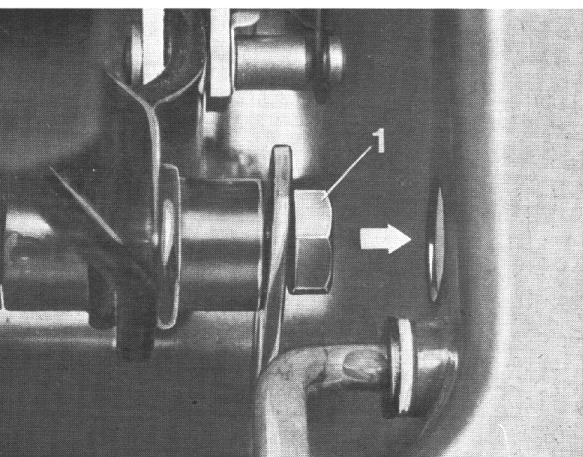


(B) BMW 2002/2002 TI

Remove carpet from pedal area as far as necessary.
Unscrew nut (1) ¹⁾ and take off spring disc (2). Force dowel pin (3) out of clutch pedal (4) and piston rod (5).

Remove bushes (6) and (7).

Note when fitting: Apply Molykote Longterm 2 on nut, spring disc, dowel pin and bushes.



Press rubber plug out of bearing block on the right-hand side, towards the engine compartment.

Unscrew fastening bolt (1) ¹⁾ and push through the aperture in the bearing block until the clutch pedal can be removed.

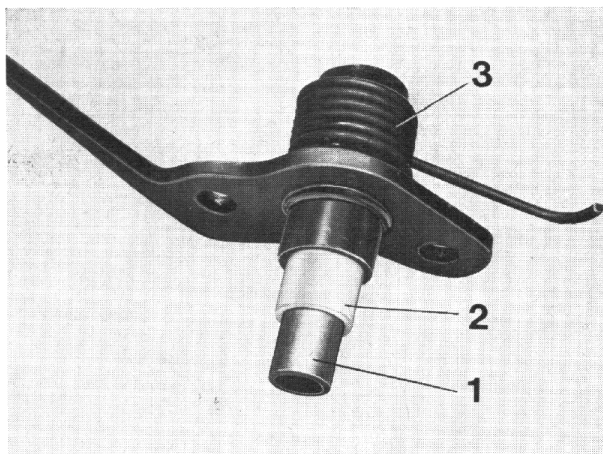
Note when fitting: Do not forget shim between clutch pedal and brake pedal.



¹⁾ see Specifications

Force out spacer sleeve (1) and bearing bush (2).
Remove torsion spring (3).

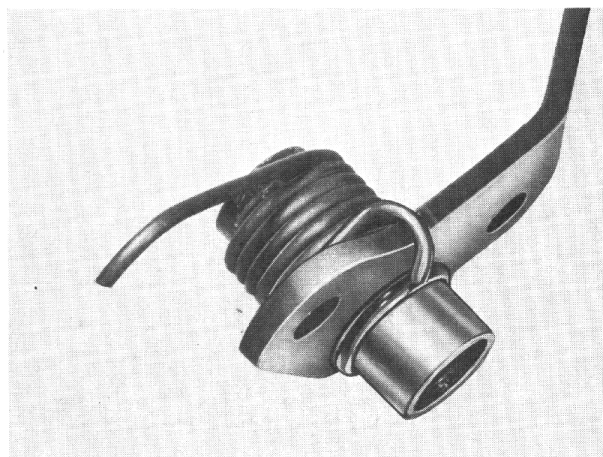
Note when fitting: Apply Molykote Longterm 2 when fitting bearing bush.



35 31 031 Replacement of clutch pedal torsion spring

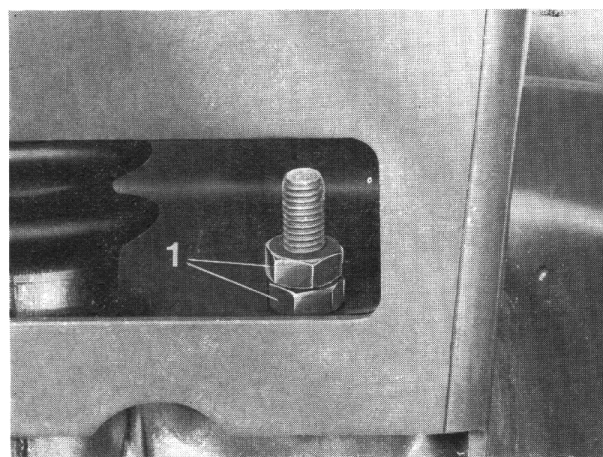
Removal and fitting of clutch pedal cf. 35 31 000.
Disconnect torsion spring from clutch pedal and remove.

Note when fitting: Note correct position.



35 31 041 Replacement of clutch tension spring

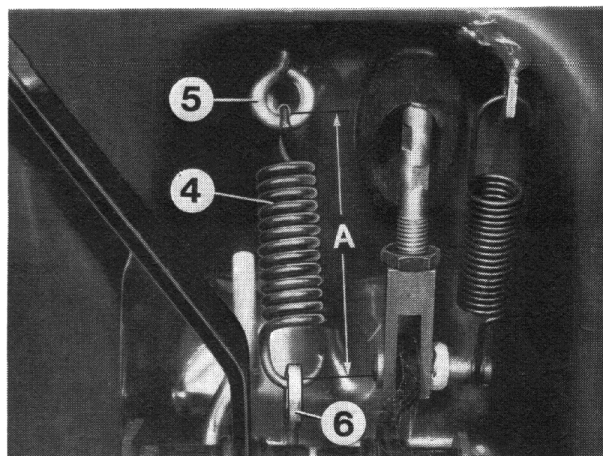
Remove carpet from pedal area as far as necessary.
Take off damper layer.
Unscrew fastening nuts (1) from wire ring bolt.



Disconnect tension spring (4).

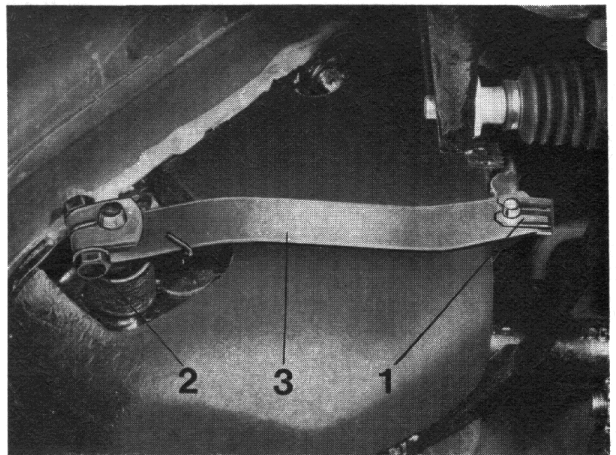
Note when fitting: Adjust tension spring (4) to correct length ($A = 92 \text{ mm}/3.622''$).

Coat Molykote Longterm 2 on the ends of tension spring (4), i. e. at ring bolt (5) and at spring strap (6).

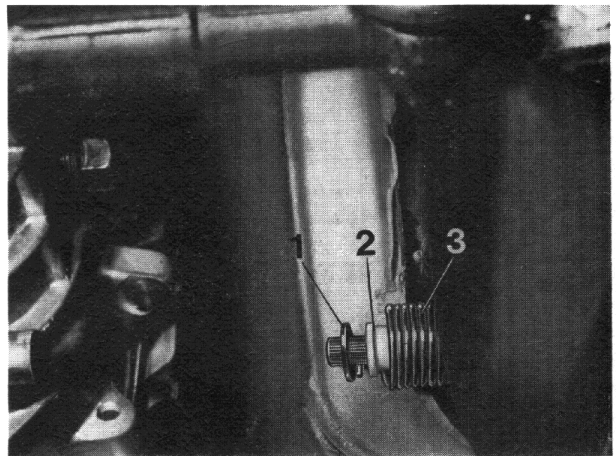


35 41 030 Removing and fitting pedal lever shaft

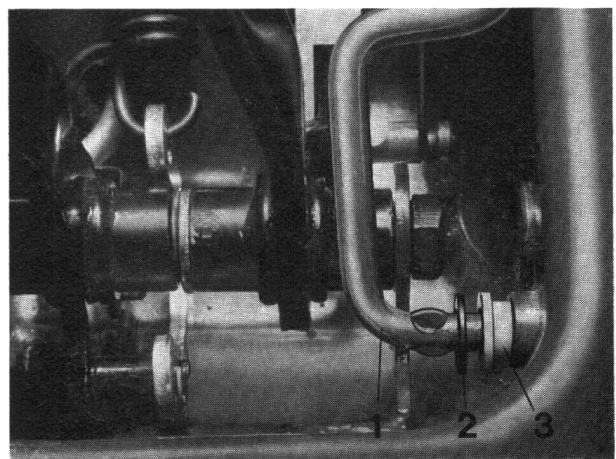
Remove clamp spring (1) from tension rod.
Slacken clamp screw (2) and remove
arm for accelerator operation (3).



Push off washer (1), joint bush (2)
and torsion spring (3).



Remove pedal lever.
Loosen carpet around pedal
mechanism as much as necessary.
Remove damping lining.
Remove pedal lever shaft (1) with
washer (2) and joint bush (3).
Fitting instruction: Throttle butterfly
must be fully open in the full throttle position.



Adjust full throttle setting.
Note: Accelerator cable setting on
2002 Automatic, see 24 00 004.

