

1.1 Clutch pedal assembly

cover and allowing the fluid to flow and spill so that air bubbles can be seen in the expelled fluid.

(5) This method has the advantage that the large reservoir of fluid provides an additional safeguard against air being drawn into the system during bleeding.

All methods

- (6) When bleeding is complete, and correct pedal feel is restored, tighten the bleed screw securely and wash off any spill fluid. Refill the main tank to the correct level.
- (7) Check the hydraulic fluid level in the master cylinder reservoir, and top up if necessary (see **Wash checks**).
- (8) Disconnect any hydraulic fluid that has been drained from the system. It will not be fit for re-use.
- (9) Check the operation of the clutch pedal. If the clutch is still not operating correctly, air must still be present in the system, and further bleeding is required. Refer to bleed subsequently after a complete repetition of the bleeding procedure may be due to some master cylinder/master cylinder rods.



1.2 Clutch master cylinder

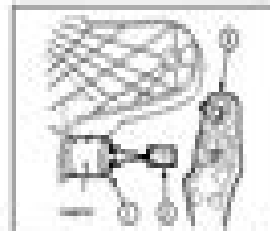


1.3 Hydraulic hose to master cylinder - removed

1 Clutch pedal - removal and refitting

Removal

- (1) Remove the driver's seat fully to the rear and adjust the steering column to its highest position.
- (2) Disconnect the battery negative lead and position it away from the engine. **Note:** Before disconnecting the battery, refer to disconnecting the battery at the relevant section at the rear of the manual.
- (3) Remove the driver's side lower body trim panel, with reference to Chapter 11 Section 21.
- (4) Where fitted, remove the securing clips and remove the insulation padding from around the clutch pedal mounting bracket.
- (5) Undo the retaining nut and remove the pedal push-rod, move the pedal downwards and withdraw the rear centre spring from across the top of the mounting bracket (see **Illustration**). Note the clutch pedal set up



1.4 Master cylinder pushed to pedal mounting pin

- 1 Master cylinder pushed
- 2 Steering pin
- 3 Clutch pedal

to be attached to the master cylinder operating rod.

(6) Working at each side of the clutch pedal, release the retaining clip to disengage the master cylinder push-rod from the pedal (see **Illustration**). The pedal can now be removed from the mounting bracket.

(7) If required, undo the three mounting nuts and remove the mounting bracket from the bulkhead. (Check the self-locking nuts, as new ones will be required for refitting.)

Refitting

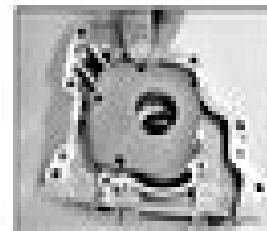
- (8) Refitting is a reversal of removal, bearing in mind the following points:
 - a) Check the position allowing the clip into the pedal until it is secure in place.
 - b) Tighten all clamps to the specified torque, where given.
 - c) On completion, check the pedal travel, free flow, and top-up if necessary.

2 Master cylinder - removal, overhaul and refitting

Note: Refer to the wiring at the beginning of Section 1.

Removal

- (1) The clutch master cylinder is located inside the car on the clutch and brake pedal mounting/bracket (see **Illustration**). Hydraulic fluid for this unit is supplied from the brake master cylinder reservoir.
- (2) On LHD models, it will be necessary to remove the air cleaner assembly then undo the routing cage corner on the left hand side of the engine compartment, and position it to the side.
- (3) Before proceeding, place cloth rags on the carpet inside the car to prevent damage from spilled hydraulic fluid.
- (4) Working in the engine compartment, clamp the hydraulic fluid hose leading from the master fluid reservoir to the clutch master cylinder (see **Illustration**), using a brace from clamp



1.5 Removing off the air of pump, rear cover



1.6 It shows that the return is with the pushed state (previously facing the air pump cover)



1.7 It shows the master cylinder of the clutch pedal

Inspection

- (5) No spare parts are available for the air pump, and it must or finally the complete pump must be replaced.
- (6) To inspect the air pump valve, remove the securing screws, and lift off the air pump rear cover (see **Illustration**).
- (7) Note that the return is with the pushed state on the edges of the return facing the air pump cover (see **Illustration**).
- (8) Lift out the return, and inspect them for wear and damage. If there are any signs of wear or damage, the complete air pump assembly must be replaced.
- (9) Lubricate the contact faces of the valve with clean engine oil, then lift the return to the pump, ensuring that the contact state on the edges of the return face the push state.
- (10) Push the pump cover, and tighten the screws securely.

(11) Using a flat-headed screwdriver, press the master cylinder of the rear wheel to the air pump, and disconnect it from the air pump.

(12) Thoroughly clean the air reservoir to the air pump.

(13) Press or drive a new oil seal into position at the air pump, using a wooden or bone of suitable diameter (see **Illustration**). Ensure that the seal seats properly in the air pump flange that the master cylinder body only on the rear side ring or the seal was too close not to damage the seal lips. Press or drive the seal into position until it is seated in the

(14) Press or drive a new oil seal into position at the air pump, using a wooden or bone of suitable diameter (see **Illustration**). Ensure that the seal seats properly in the air pump flange that the master cylinder body only on the rear side ring or the seal was too close not to damage the seal lips. Press or drive the seal into position until it is seated in the

(15) Press or drive a new oil seal into position at the air pump, using a wooden or bone of suitable diameter (see **Illustration**). Ensure that the seal seats properly in the air pump flange that the master cylinder body only on the rear side ring or the seal was too close not to damage the seal lips. Press or drive the seal into position until it is seated in the

(16) Press or drive a new oil seal into position at the air pump, using a wooden or bone of suitable diameter (see **Illustration**). Ensure that the seal seats properly in the air pump flange that the master cylinder body only on the rear side ring or the seal was too close not to damage the seal lips. Press or drive the seal into position until it is seated in the

(17) Press or drive a new oil seal into position at the air pump, using a wooden or bone of suitable diameter (see **Illustration**). Ensure that the seal seats properly in the air pump flange that the master cylinder body only on the rear side ring or the seal was too close not to damage the seal lips. Press or drive the seal into position until it is seated in the

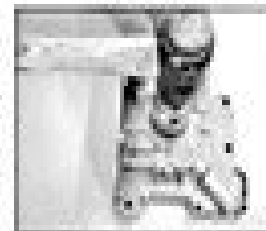
(18) Press or drive a new oil seal into position at the air pump, using a wooden or bone of suitable diameter (see **Illustration**). Ensure that the seal seats properly in the air pump flange that the master cylinder body only on the rear side ring or the seal was too close not to damage the seal lips. Press or drive the seal into position until it is seated in the

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(20) Press or drive a new oil seal into position at the air pump, using a wooden or bone of suitable diameter (see **Illustration**). Ensure that the seal seats properly in the air pump flange that the master cylinder body only on the rear side ring or the seal was too close not to damage the seal lips. Press or drive the seal into position until it is seated in the



1.8 It shows the return is with the pushed state (previously facing the air pump cover)



1.9 It shows a new oil seal into the air pump using a wooden

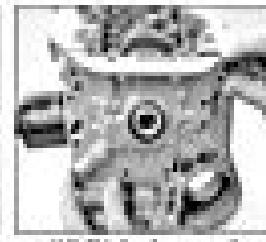


1.10 It shows a new oil seal into the master cylinder body

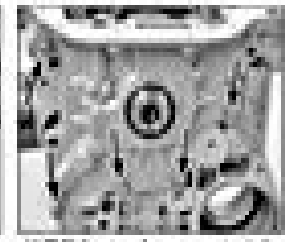
available in the housing. Make sure that the master and of the seal is facing correctly.

Refitting

- (1) Commence refitting by installing all bolts of air pump and ensure that the timing faces of the cylinder block and air pump.
- (2) When a length of hose around the end of the master cylinder to protect the air seal face on the air pump is old into position.
- (3) Fit a new oil pump gasket over the flange in the cylinder block (see **Illustration**).
- (4) Turn the cover of pump into a slight gap of the other end into the edge of the cover with the two studs on the air pump rear cover (see **Illustration**).
- (5) Tighten all the four tops of the air pump drive cover on the end of the master cylinder.



1.11 It shows the return is with the pushed state (previously facing the air pump cover)



1.12 It shows the return is with the pushed state (previously facing the air pump cover)

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