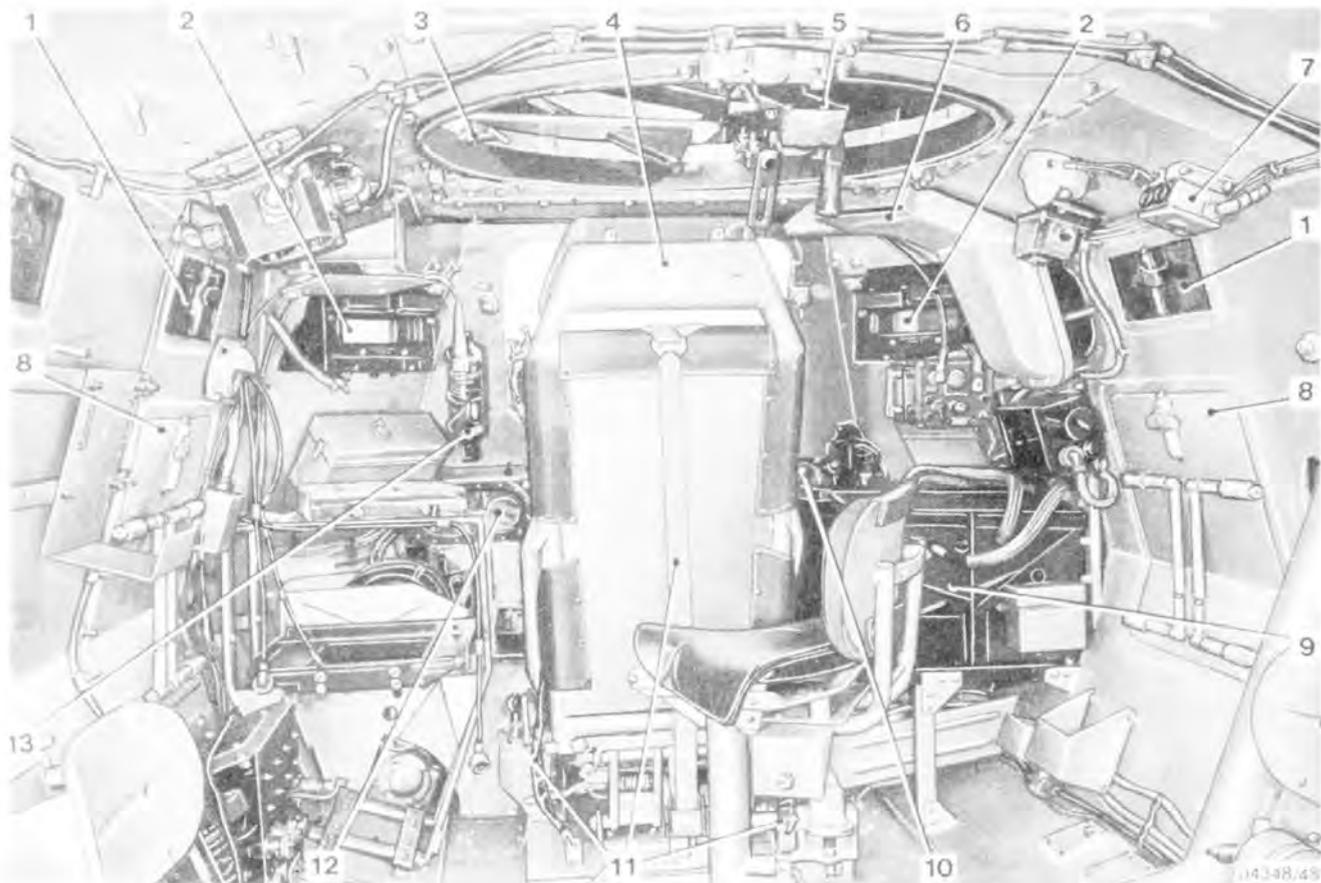


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- |                              |  |                         |
|------------------------------|--|-------------------------|
| 1 Small arms port            | 6 Ventilation fan ducting                  | 10 Driver's switchboard |
| 2 Driver's side vision block | 7 Firing box, smoke grenade<br>dischargers | 11 Driver's seat belt   |
| 3 Turret lock                | 8 Escape hatch                             | 12 Instrument panel     |
| 4 Driver's seat, type 30G    | 9 Automotive batteries                     | 13 Fire extinguisher    |
| 5 MG mount                   |  |                         |

Fig 26 APC, front interior view, late Mk 5 and Mk 6 vehicles

#### To remove and replace an observation port screen

19. The rectangular glass screen is held in position by turncatches, one at each corner. To remove, first support the screen, undo each catch then lift the screen clear. To replace, position the screen in the aperture and secure with the four turncatches.

#### ESCAPE HATCHES (APCs)

20. The escape hatches (Fig 26(8)) in the hull sides have armour plate covers which can be released and jettisoned in an emergency. The covers are held firmly in position by sliding bolts (Fig 27(4)) and a catch (3), when these are withdrawn (against springs) the cover can be pushed outwards to drop from the vehicle.

#### To open an escape hatch cover (emergency only)

21. Pull down on the catch handle (2) with one hand, grasp and squeeze together the two release handles (5), push outwards and release the freed cover.

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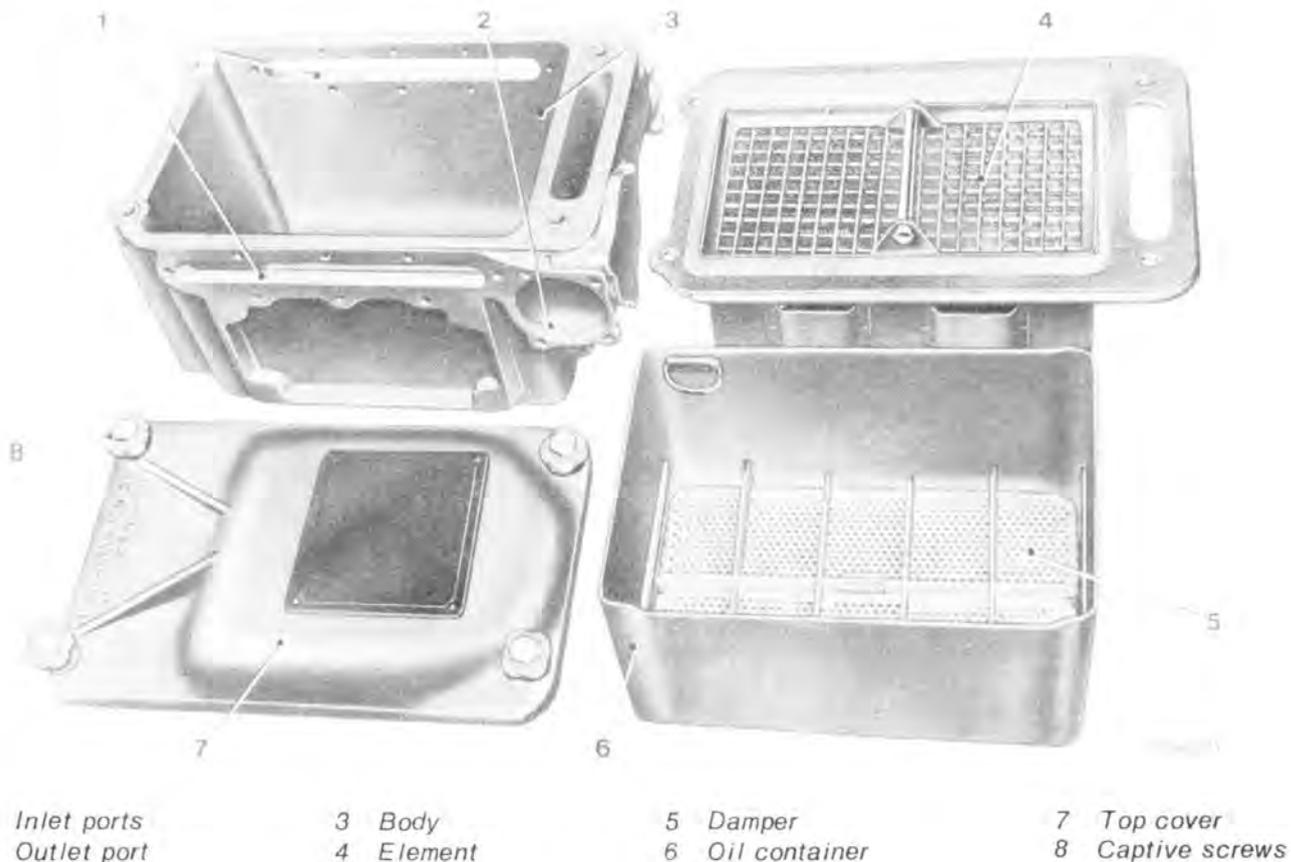


Fig 55 Engine air cleaner

b. For starting in cold weather:- Pull the control back as in sub-paragraph a. then turn it anti-clockwise and pull it back until it stops again. As soon as the engine starts, return the control to the first position a. Return the control to the fully IN position as soon as the engine will run with it in that position.

c. For starting in sub-zero conditions:- Pull the control back as in sub-paragraphs a. and b. and then turn it clockwise and pull back as far as possible. DO NOT USE FORCE. Return the control to the position as in sub-paragraph b. as soon as the engine starts and to the fully off position as soon as possible. The sub-zero position must only be used under extreme cold conditions since it provides an extremely rich mixture and if used indiscriminately would flood the engine with fuel and prevent easy starting.

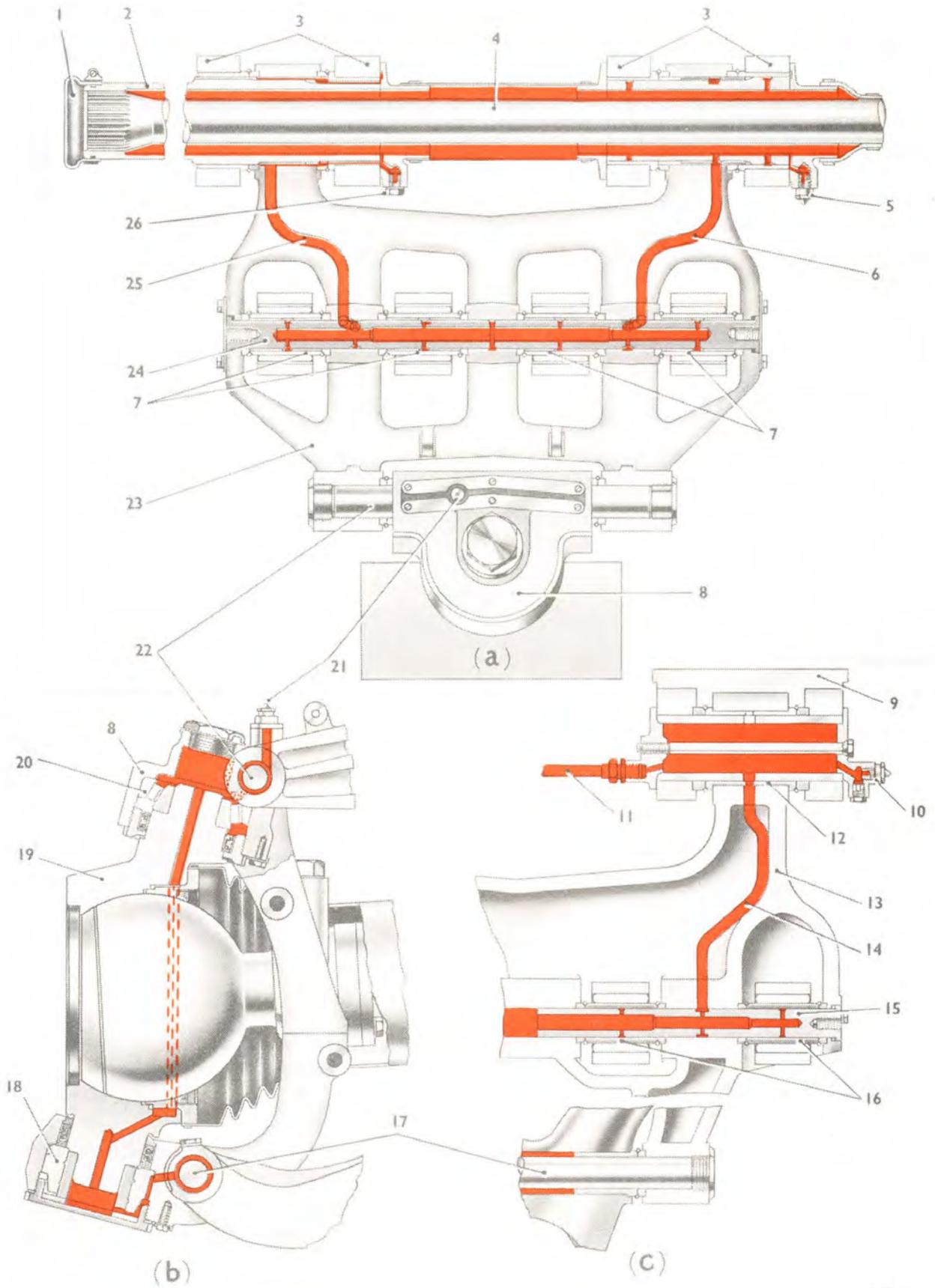
**Note:** DO NOT use the control when the engine is warm.  
DO NOT use the control for longer than necessary.  
DO NOT use the control in intermediate positions.

## AIR CLEANERS

146. Two air cleaners (Fig 47(16)) clean the air supply to the carburettor; they are the oil bath type and are located on the bulkhead, one each side in the rear of the engine compartment, the outlets are connected by trunking to the air horn on top of the carburettor. A level of oil in each cleaner ensures the correct amount of 'wetting' of the filter element (Fig 55(4)). The oil is contained in a separate container, a specially-constructed damper (5) seated in the base of the container (6) prevents the oil surging when the vehicle is on the move. The filters have covers (7) secured by hand screws (8) to permit ease of access for checking and servicing, gaskets are fitted between jointing surfaces to exclude dust and moisture.

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Fig 79 Suspension unit lubrication system

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FAULTS	TESTS AND PROBABLE REMEDIES
<p><b>MAIN INDICATOR FLICKERS AT NORMAL ENGINE SPEED</b></p> <p>Probable cause</p> <ul style="list-style-type: none"> <li>a. Generator drive slipping</li> <li>b. Faulty connections in charging circuit</li> <li>c. Faulty generator, generator panel, or distribution panel</li> </ul>	<p>Check generator drive and note rotation of pulley when engine is being turned over</p> <p>Examine all connections, as far as possible, for cleanliness and security</p> <p>REPORT</p>
<p><b>SLIPPING DRIVE WHEN VEHICLE IS OPERATING</b></p> <p>Probable cause</p> <ul style="list-style-type: none"> <li>a. Gearbox brake bands slipping</li> </ul> <p><b>Warning: DO NOT DRIVE THE VEHICLE IF ANY UNUSUAL NOISES OR VIBRATIONS ARE NOTED IN THE GEARBOX</b></p> <ul style="list-style-type: none"> <li>b. Fluid coupling fluid level too low</li> </ul>	<p>Test by engaging other gears. Stop the engine, select the faulty gear and pump the gear change pedal, with full depressions and releases, 20 or 30 times. If the gear still slips, avoid using it and report at the earliest opportunity.</p> <p>Check the fluid level. If the fluid level is low, top-up to the correct level. Check the coupling to locate the leakage. Report at the first opportunity.</p>
<p><b>NO DRIVE WHEN GEARBOX AND TRANSFER BOX ENGAGED</b></p> <p>Probable cause</p> <ul style="list-style-type: none"> <li>a. Faulty gear selector mechanism</li> <li>b. Faulty transfer box selector mechanism</li> </ul> <p><i>If the fault is not located by the above checks, REPORT.</i></p>	<p>Check as far as possible the linkage from the gear selector lever to the gearbox. Examine for lost motion in linkage.</p> <p>Check as far as possible the linkage from the control lever to the transfer box. Examine for lost motion in linkage.</p>
<p><b>GEAR CHANGE PEDAL HARD TO DEPRESS AND FLIES RIGHT BACK</b></p> <p>Probable cause</p> <ul style="list-style-type: none"> <li>a. If fault occurs repeatedly in one gear, faulty gear engagement in the gearbox</li> <li>b. If fault occurs occasionally in all gears, incorrect adjustment of gear change controls or incorrect operation of pedal</li> </ul> <p><i>If the fault still persists, REPORT.</i></p>	<p>Check by engaging other gears. Avoid using the faulty gear and report at the earliest opportunity.</p> <p>Check that there is free travel on the pedal in all gears and that pedal does not contact hull plate when fully depressed. Make sure that pedal is being pushed right down when changing gear.</p>

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