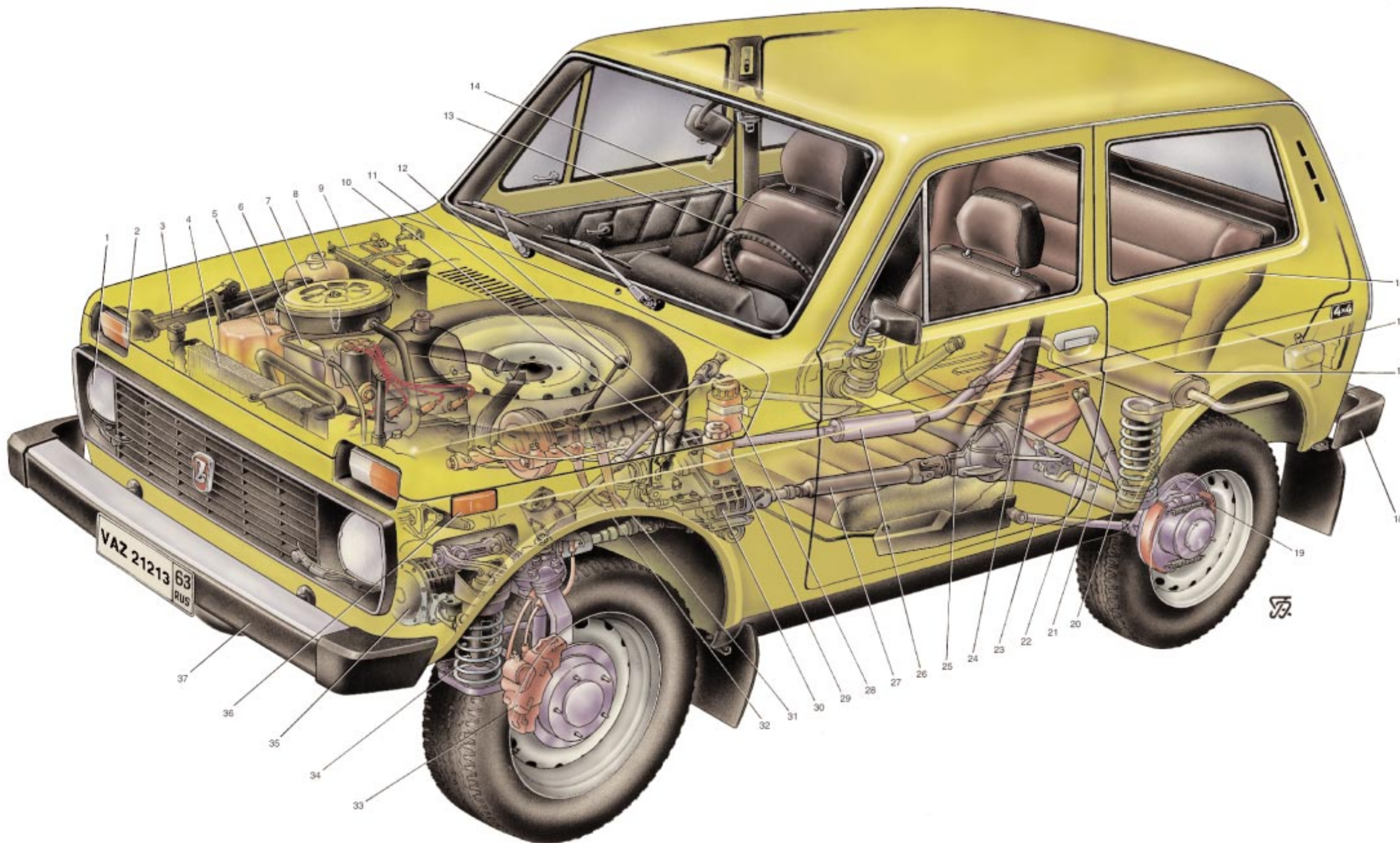


ILLUSTRATION ALBUM

VAZ - 21213, VAZ - 21214

CONTENTS

VEHICLE PACKAGING	2
ENGINE (sectional view)	3
ENGINE (cross-sectional view)	4
Components of crank mechanism and timing gear.	5
ENGINE LUBRICATION SYSTEM.	6
COOLING SYSTEM	7
FUEL SYSTEM.	8
CARBURETTOR.	9
CARBURETTOR OPERATION DIAGRAM.	10
AIR CLEANER. SILENCERS.	11
CLUTCH.	12
CLUTCH OPERATION SYSTEM.	13
GEARBOX	14
GEARBOX OPERATION DIAGRAM	15
PROPELLER SHAFT	16
TORQUE CONVERTER AND ITS DRIVE SYSTEM.	17
TORQUE CONVERTER OPERATION DIAGRAM	18
REAR AXLE	19
FRONT AXLE	20
FRONT SUSPENSION	21
REAR SUSPENSION	22
SHOCK ABSORBERS	23
STEERING	24
BRAKE MECHANISM	25
BRAKE OPERATION DIAGRAM	26
WIRING DIAGRAM FOR ELECTRICAL EQUIPMENT OF VAZ 21213 VEHICLE. .	27
ALTERNATOR	28
ALTERNATOR 94.3701 (FOR INJECTION VEHICLES)	29
STARTER MOTOR	30
IGNITION SYSTEM	31
WINDSCREEN WIPER	32
BODY	33
BODY FITTINGS.	34
HEATING AND VENTILATION. WIPER/WASHER.	35
INJECTION SYSTEM (GM).	36
INJECTION SYSTEM DIAGRAM (GM)	37
WIRING DIAGRAM FOR INJECTION SYSTEM (GM)	38
WIRING DIAGRAM FOR INJECTION SYSTEM EURO2.	39
WIRING DIAGRAM FOR INJECTION SYSTEM EURO3	40



VEHICLE PACKAGING

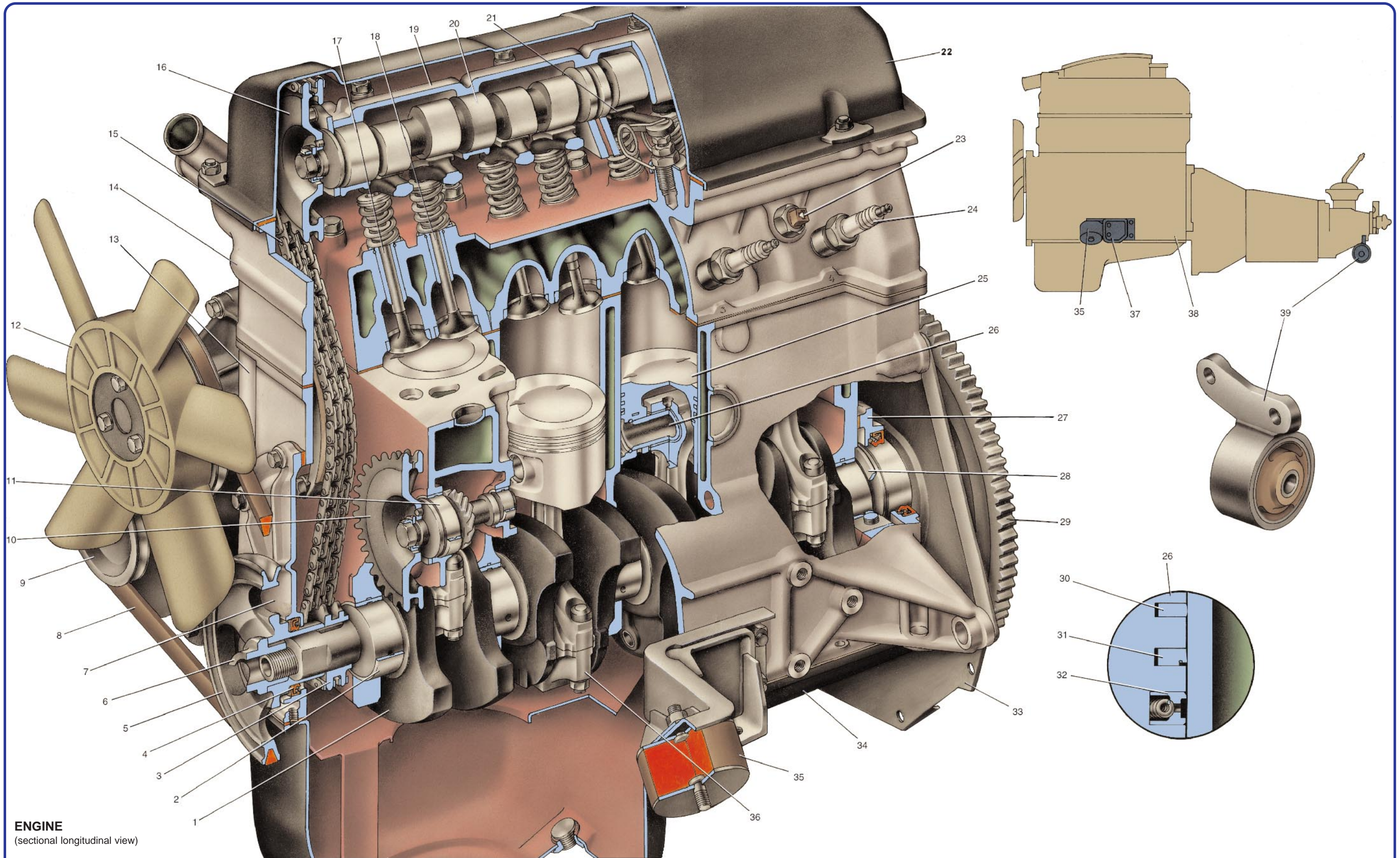
Specification

Payload, kg 400
 Kerbweight , kg 1210
 Max. speed, km/h 137
 Acceleration time from 0 to 100 km/h,
 with gearchange, on GVW vehicle, sec . . 21

Overall dimensions, mm:

length 3740
 width 1680
 unladen height 1640
 Wheelbase, mm 2200
 Track:
 front, mm 1430
 rear, mm 1400

- | | | | |
|--|---------------------------------------|---|---|
| 1. Headlight | 11. Gear change lever | 21. Rear shock - absorber | 31. Clutch pedal |
| 2. Front lamp | 12. Gear change lever in transfer box | 22. Rear suspension transverse torque rod | 32. Brake pedal |
| 3. Jack | 13. Steering wheel | 23. Rear suspension longitudinal torque rod | 33. Front brake |
| 4. Radiator | 14. Front seat | 24. Fuel tank | 34. Front suspension coil spring |
| 4. Windscreen / headlight washer fluid reservoir | 15. Rear seat | 25. Rear axle | 35. Front axle |
| 6. Engine | 16. Tailgate washer fluid reservoir | 26. Intermediate silencer | 36. Direction indicator side repeater light |
| 7. Air cleaner | 17. Main silencer | 27. Rear propeller shaft | 37. Front bumper |
| 8. Cooling system expansion tank | 18. Rear bumper | 28. Reservoir for brake hydraulic fluid | |
| 9. Battery | 19. Rear brakes | 29. Reservoir for clutch hydraulic fluid | |
| 10. Differential lock lever in transfer box | 20. Rear suspension coil spring | 30. Torque converter | |

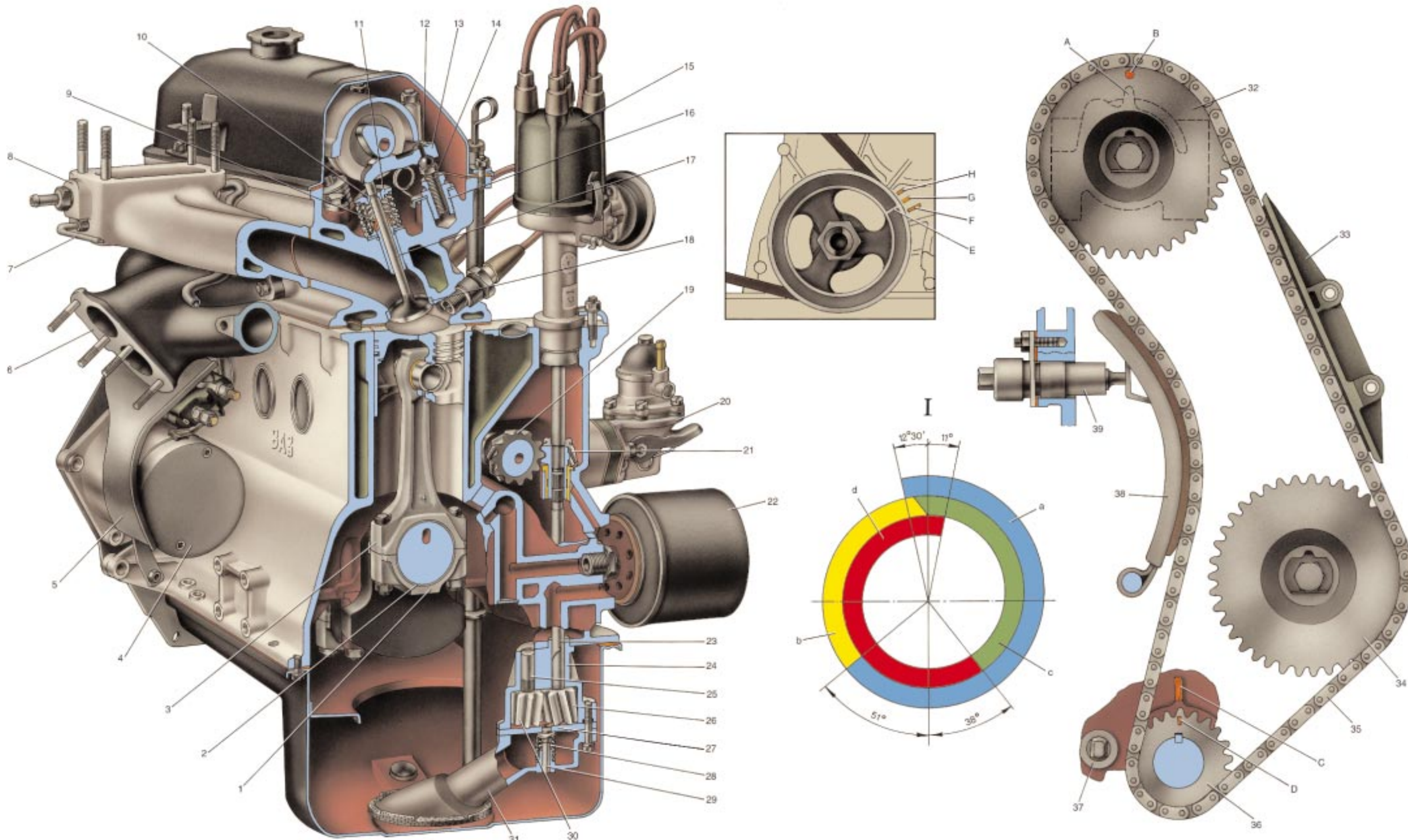


ENGINE
(sectional longitudinal view)

Specification

Engine model VAZ - 21213
 Cylinder bore and piston stroke, mm. 80 x 80
 Displacement, l 1.69
 Compression ratio 9.3
 Rated power as per GOST 14846-89 (net)
 and ISO 1585-82 at crankshaft rate
 5,200 rpm, kW (HP) 59 (80.2)

- | | | | | |
|---|--|--|---|---|
| <ul style="list-style-type: none"> 1. Crankshaft 2. Main bearing shell 3. Crankshaft sprocket 4. Crankshaft front oil seal 5. Crankshaft pulley 6. Ratchet 7. Timing cover 8. Coolant pump / alternator drivebelt 9. Alternator pulley | <ul style="list-style-type: none"> 10. Oil pump / ignition distributor / fuel tank / drive sprocket 11. Oil pump / ignition distributor / fuel tank drive shaft 12. Engine cooling system fan 13. Cylinder block 14. Cylinder head 15. Timing chain 16. Camshaft sprocket | <ul style="list-style-type: none"> 17. Exhaust valve 18. Inlet valve 19. Camshaft bearing housing 20. Camshaft 21. Valve operating lever 22. Valve cover 23. Coolant temperature gauge sender 24. Spark plug 25. Piston | <ul style="list-style-type: none"> 26. Gudgeon pin 27. Crankshaft rear oil seal retainer 28. Crankshaft thrust half-ring 29. Flywheel 30. Upper compression ring 31. Lower compression ring 32. Oil ring 33. Clutch bellhousing cover plate 34. Oil sump | <ul style="list-style-type: none"> 35. Power unit front mounting 36. Connecting rod 37. Front mounting bracket 38. Power unit 39. Power unit rear mounting |
|---|--|--|---|---|



ENGINE
(cross-sectional view)

- 1. Big end cap
- 2. Shell bearing
- 3. Connecting rod
- 4. Starter motor
- 5. Starter motor heat shield
- 6. Exhaust manifold
- 7. Inlet pipe drain tube
- 8. Inlet pipe

- 9. Oil deflector cap
- 10. Valve collet
- 11. Valve spring cap
- 12. Valve operating lever spring
- 13. Valve operating lever
- 14. Valve adjuster bolt
- 15. Ignition distributor
- 16. Adjuster bolt bush
- 17. Valve guide
- 18. Valve seat

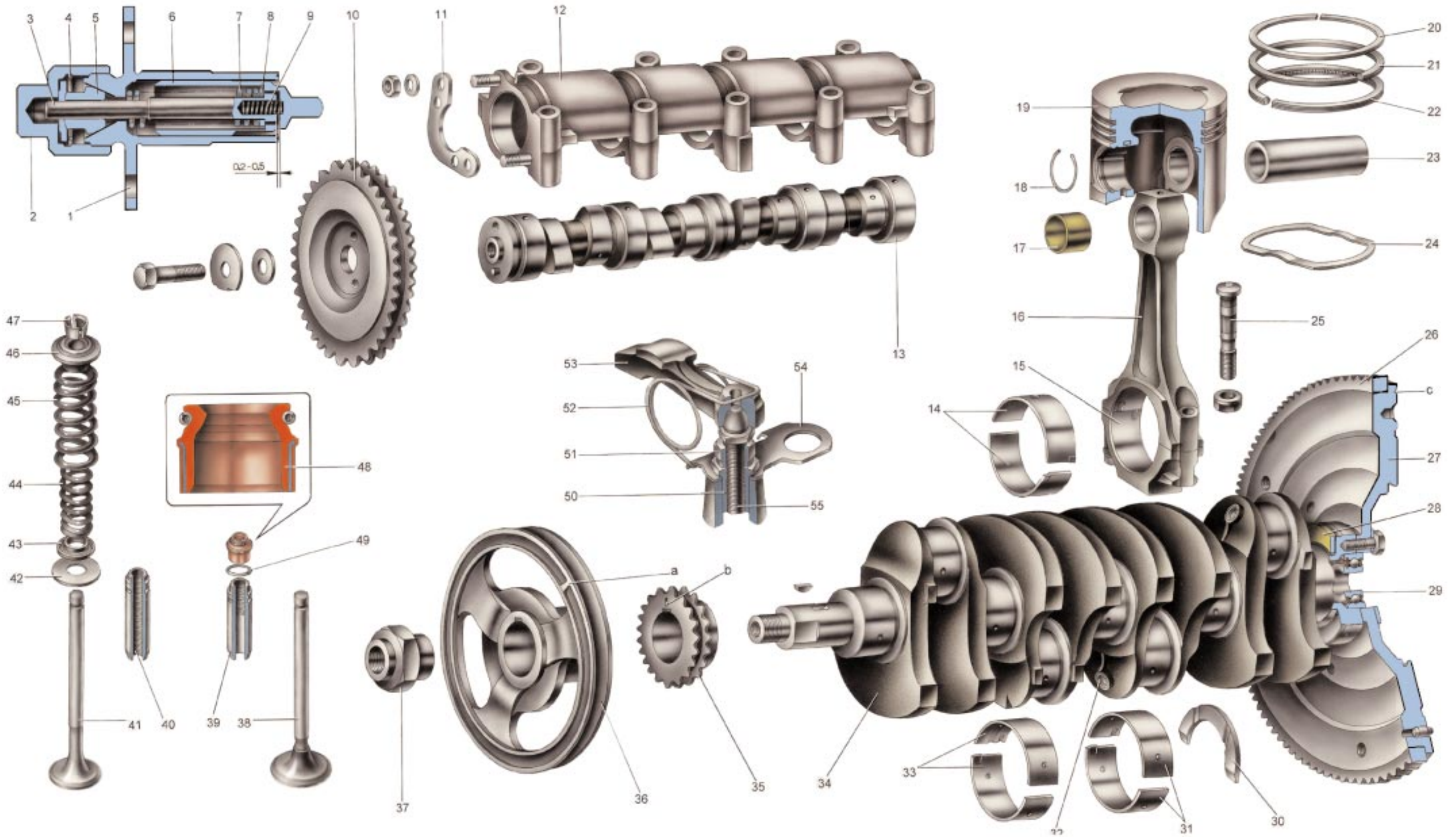
- 19. Oil pump / ignition distributor / fuel pump drive shaft
- 20. Fuel pump
- 21. Oil pump / ignition distributor drive gear
- 22. Oil filter
- 23. Oil pump drive shaft
- 24. Oil pump body
- 25. Oil pump driven gear shaft
- 26. Oil pump drive gear
- 27. Oil pump cover
- 28. Reducing valve spring

- 29. Reducing valve
- 30. Oil pump driven gear
- 31. Oil pump inlet pipe
- 32. Camshaft sprocket
- 33. Chain damper
- 34. Oil pump / ignition distributor / fuel pump drive sprocket
- 35. Valve chain
- 36. Crankshaft sprocket
- 37. Chain stop pin
- 38. Chain tensioner shoe

- 39. Chain tensioner

- I. Firing order**
- a. Induction
 - b. Compression
 - c. Power
 - d. Exhaust

- A. Mounting lug on camshaft bearing housing
- B. Camshaft sprocket timing mark
- C. Cylinder block timing mark
- D. Timing mark on crankshaft sprocket
- E. TDC pointer on crankshaft pulley
- F. 0° timing mark
- G. 5° timing mark
- H. 10° timing mark



COMPONENTS OF CRANK MECHANISM AND TIMING GEAR

- 1. Tensioner housing
- 2. Cap nut
- 3. Tensioner rod
- 4. Circlip
- 5. Clamping block
- 6. Plunger
- 7. Spring, tensioner
- 8. Washer

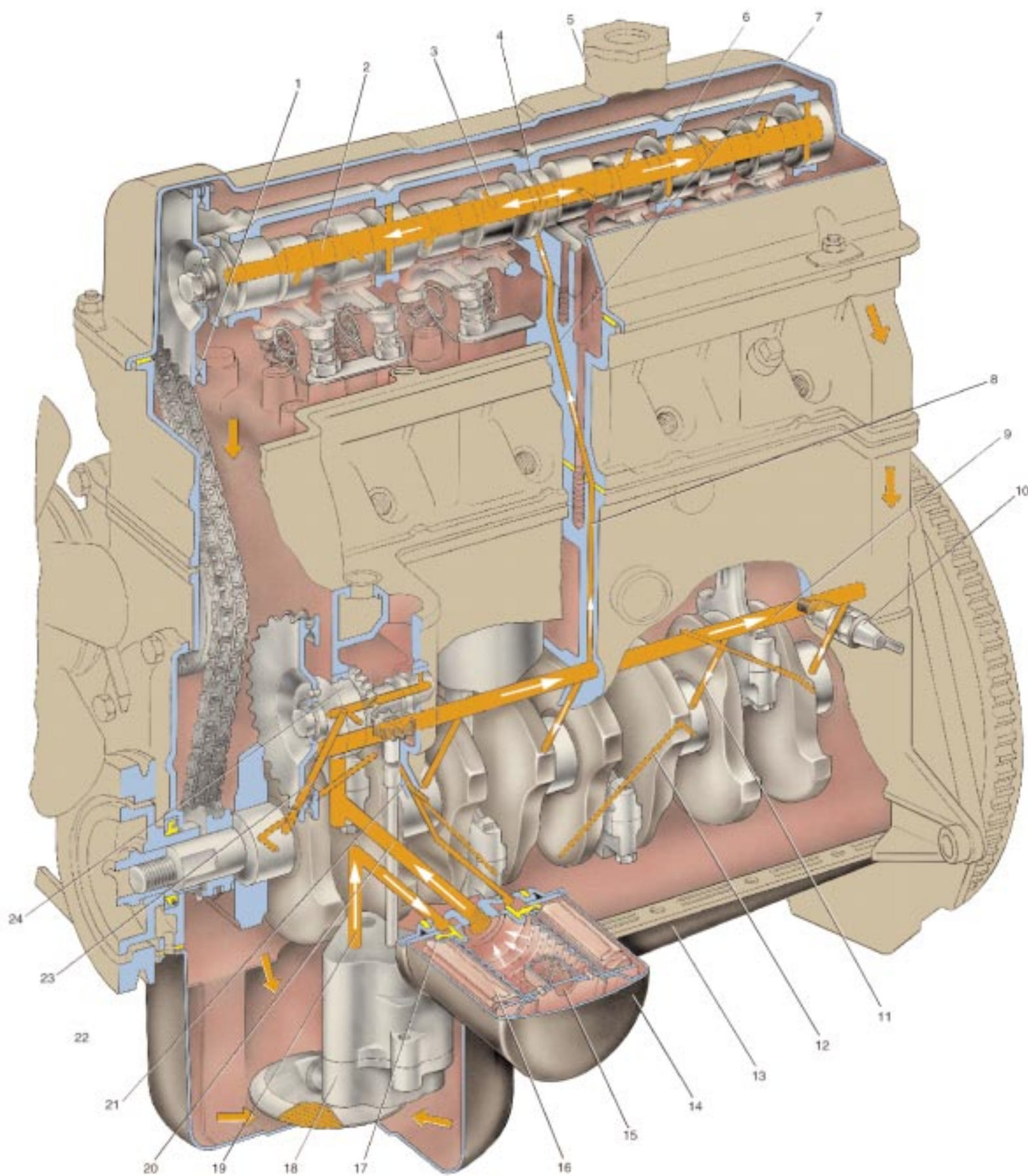
- 9. Spring, plunger
- 10. Camshaft sprocket
- 11. Thrust flange
- 12. Camshaft bearing housing
- 13. Camshaft
- 14. Big-end bearing shells
- 15. Big end cap
- 16. Connecting rod
- 17. Bush, conrod small end
- 18. Circlip
- 19. Piston

- 20. Top compression ring
- 21. Bottom compression ring
- 22. Oil ring
- 23. Gudgeon pin
- 24. Thermoregulator plate
- 25. Bolt, conrod
- 26. Starter ring gear
- 27. Flywheel
- 28. Thrust half-ring, rear
- 29. Front bearing, gearbox input shaft
- 30. Thrust half-ring, front

- 31. Centre main bearing (No 3) shells
- 32. Crankshaft oil gallery plug á
- 33. 1st, 2nd, 4th and 5th crankshaft bearing shells
- 34. Crankshaft
- 35. Crankshaft sprocket
- 36. Alternator drive / coolant pump pulley
- 37. Nut
- 38. Inlet valve
- 39. Inlet valve guide
- 40. Exhaust valve guide
- 41. Exhaust valve

- 42. Seat, outer spring
- 43. Seat, inner spring
- 44. Inner valve spring
- 45. Outer valve spring
- 46. Spring seat
- 47. Valve collet
- 48. Outer cap
- 49. Circlip
- 50. Washer, adjusting bolt
- 51. Locknut
- 52. Spring

- 53. Push rod
 - 54. Stop plate, push rod spring
 - 55. Adjusting bolt, valve
- a, b, c – TDC marks, 1st and 4th cylinder pistons

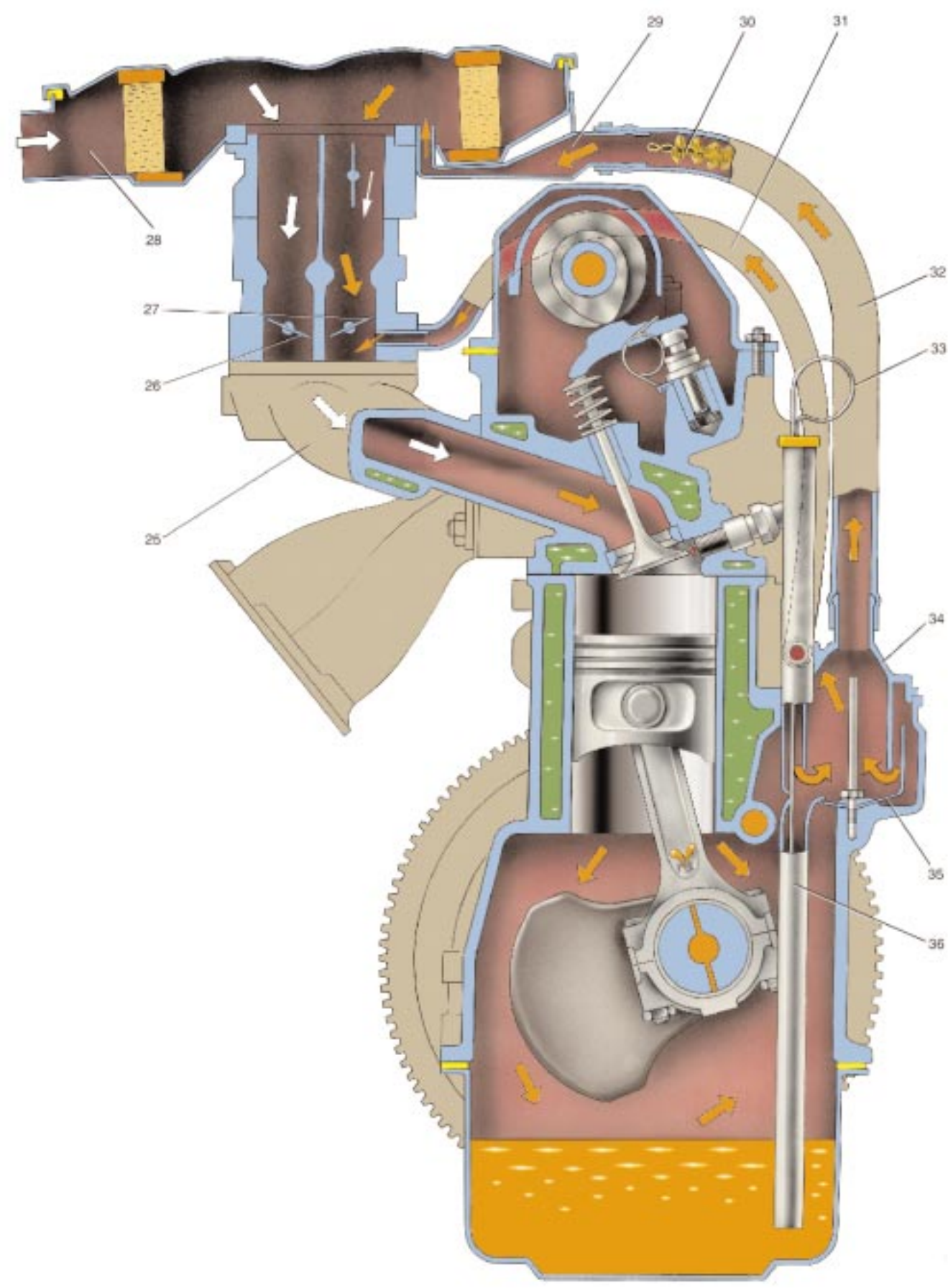


ENGINE LUBRICATION SYSTEM

1. Sprocket hole for chain lubrication
2. Camshaft main oil gallery
3. Cam lobe oilway
4. Camshaft centre bearing journal oil recess
5. Oil filler neck
6. Camshaft journal oilway
7. Inclined oilway in cylinder head

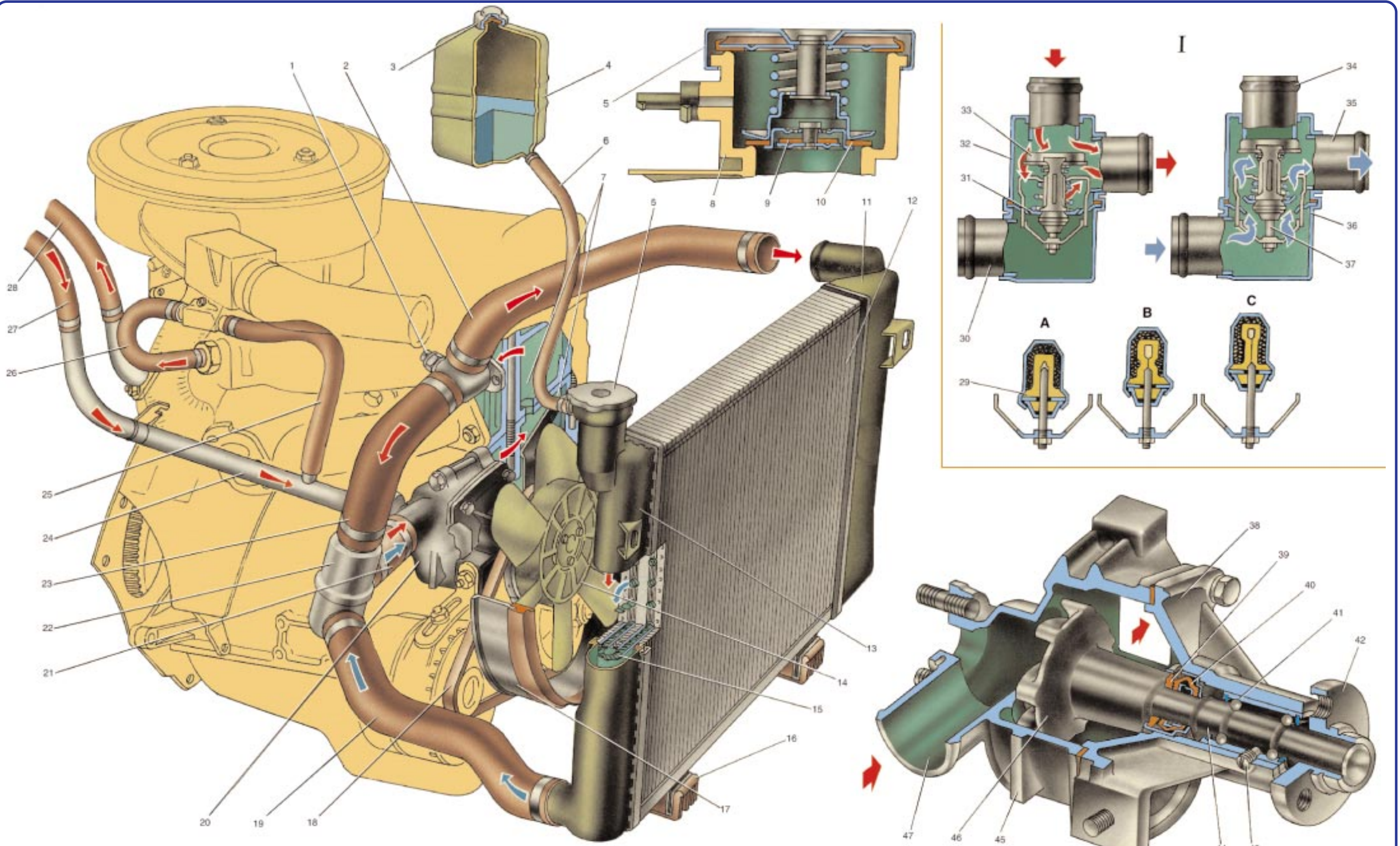
8. Oilway to timing gear
9. Cylinder block main oil gallery
10. Oil pressure warning light sender
11. Oilway to main bearing
12. Oilway to big end bearing
13. Oil sump
14. Oil filter
15. By-pass valve
16. Paper filter element

17. Check valve
18. Oil pump
19. Oil pump - to - oil filter gallery
20. Oilway from oil filter to main oil gallery
21. Oilway to oil pump drive gear bush
22. Front crankshaft grease seal
23. Oilway to main bearing and to oil pump drive gear shaft
24. Oil pump / ignition distributor drive shaft



25. Inlet pipe
26. Throttle valve, carburettor secondary barrel
27. Throttle valve, carburettor primary barrel
28. Air cleaner unit
29. Discharge ventilation manifold
30. Flame arrester
31. Hose to draw crankcase gases behind carburettor throttle valve
32. Discharge hose

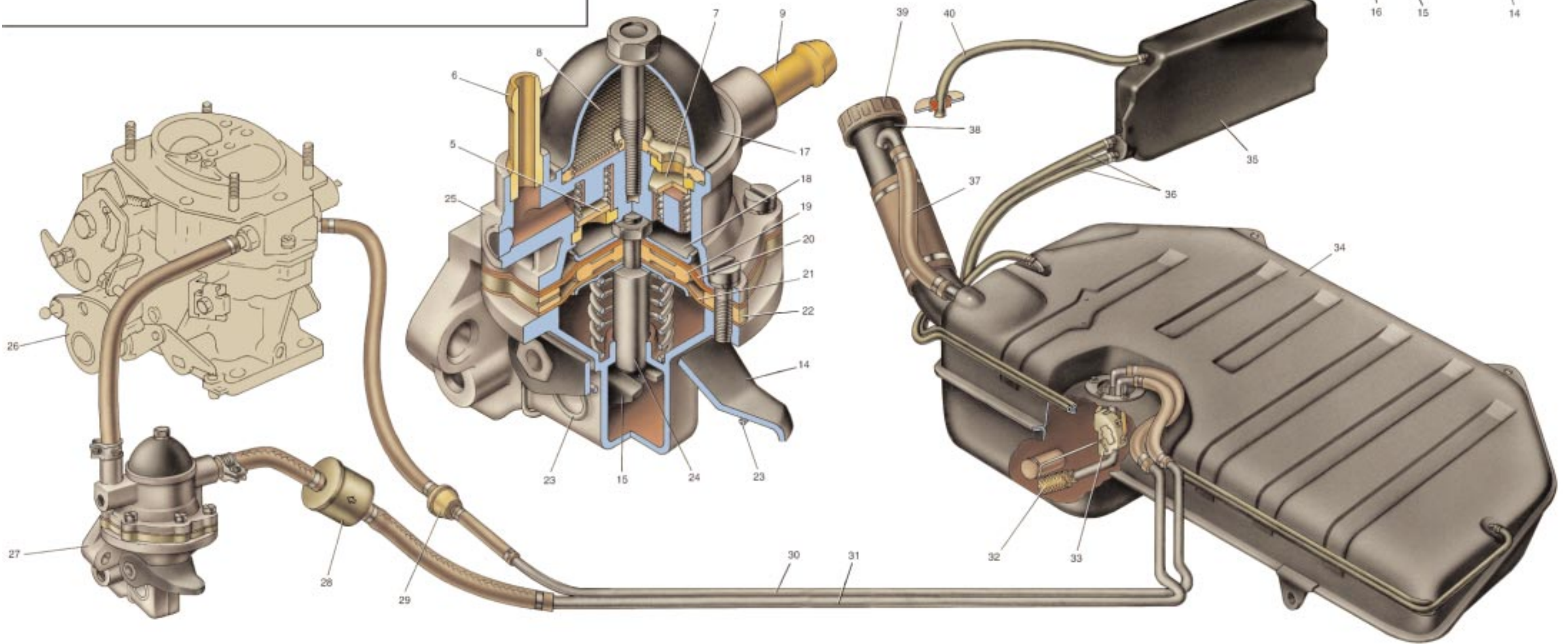
33. Oil level dipstick
 34. Oil separator cover
 35. Oil separator
 36. Drain pipe
- I. Engine crankcase ventilation diagram



COOLING SYSTEM

- | | | | | | |
|---|------------------------------|---|--|---|----------------|
| 1. Temperature sensor for fuel injection system | 9. Inlet valve | 19. Radiator outlet hose | 27. Coolant return hose from heater radiator | 37. Piston | 47. Inlet pipe |
| 2. Radiator top hose | 10. Exhaust (steam) valve | 20. Coolant pump | 28. Coolant supply hose to heater radiator | 38. Water pump cover | |
| 3. Expansion tank filler cap | 11. LH fluid cooler | 21. Coolant pump supply hose | 29. Rubber insert | 39. Oil seal thrust sealing ring | |
| 4. Expansion tank | 12. Radiator matrix | 22. Thermostat | 30. Inlet elbow (from radiator) | 40. Oil seal collar | |
| 5. Radiator cap | 13. RH fluid cooler | 23. Thermostat by-pass hose | 31. Main valve | 41. Water pump shaft bearing outer ring | |
| 6. Fluid return hose to expansion tank | 14. Fan impeller | 24. Coolant return hose from heater radiator | 32. Thermostat housing | 42. Fan pulley hub | |
| 7. Cooling water jacket | 15. Swirler | 25. Coolant return pipe from part throttle channel heater | 33. By-pass valve | 43. Stop screw | |
| 8. Filler neck | 16. Radiator mounting rubber | 26. Coolant supply hose to part throttle channel heater | 34. By-pass hose pipe | 44. Water pump shaft | |
| | 17. Fan cowl | | 35. Coolant supply pipe | 45. Water pump housing | |
| | 18. Fan belt | | 36. Thermostat cover | 46. Water pump impeller | |

I. Thermostat operation diagram
 A. Coolant temperature below 80°C
 B. Coolant temperature within 80 to 94°C
 C. Coolant temperature over 94°C.



FUEL SYSTEM

1. Rocker arm shaft
2. Rocker arm
3. Pushrod
4. Bottom cover
5. Delivery valve
6. Delivery union

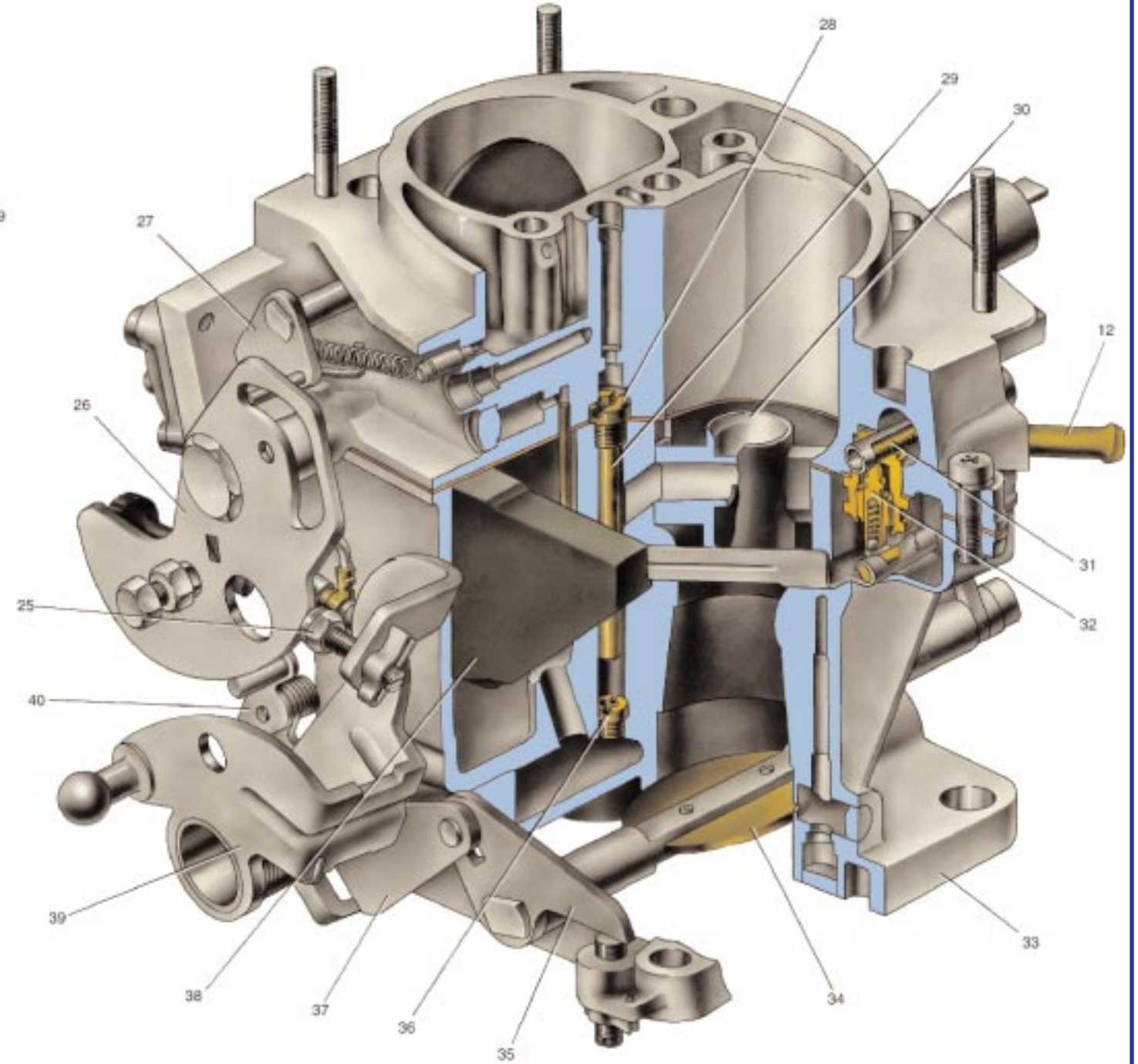
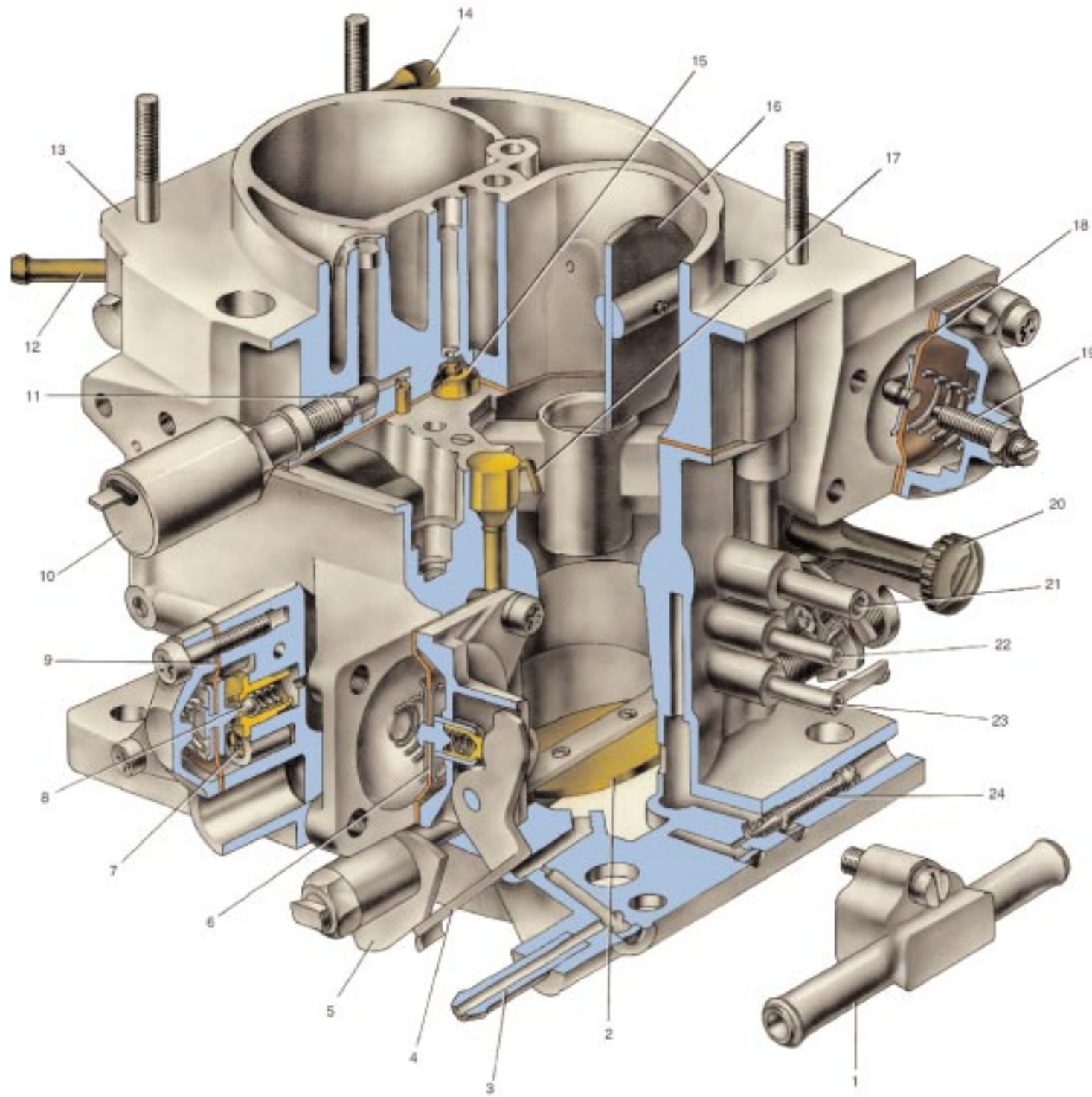
7. Suction valve
8. Fuel filter
9. Suction union
10. Fuel pump eccentric on shaft 19 (See p.4)
11. Thermal insulating spacer
12. Gasket
13. Fuel tank shim
14. Priming lever
15. Rocker

16. Eccentric
17. Fuel tank cover
18. Diaphragm plate
19. Inner spacer
20. Upper diaphragms
21. Lower diaphragm
22. Outer spacer
23. Return spring
24. Pullrod

25. Top cover
26. Carburettor
27. Fuel pump
28. Fine filter
29. Check valve
30. Return flow line
31. Supply line from fuel tank
32. Intake pipe filter
33. Fuel gauge sender

34. Fuel tank
35. Fuel vapour separator
36. Separator connecting hoses
37. Air hose
38. Fuel filler neck
39. Filler cap
40. Vent hose

- I. Fuel pump operation diagram
- II. Fuel pump mounting diagram



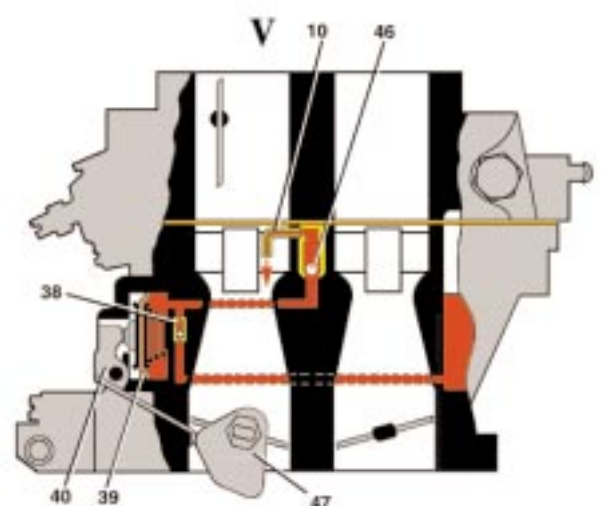
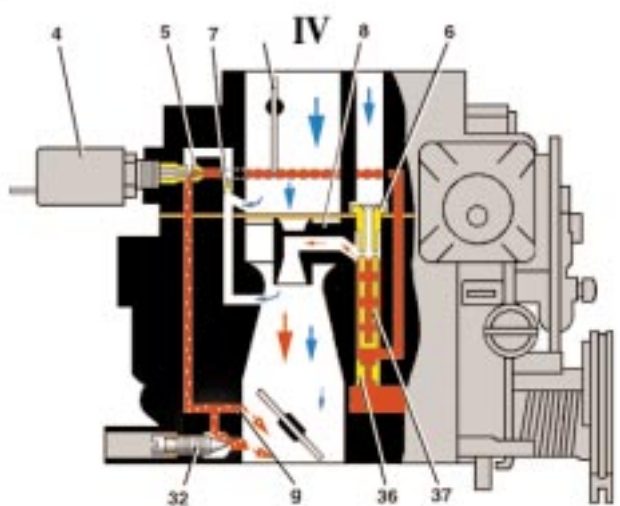
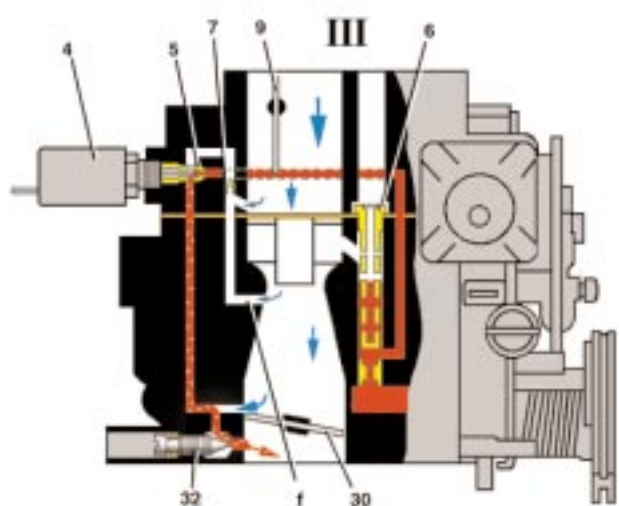
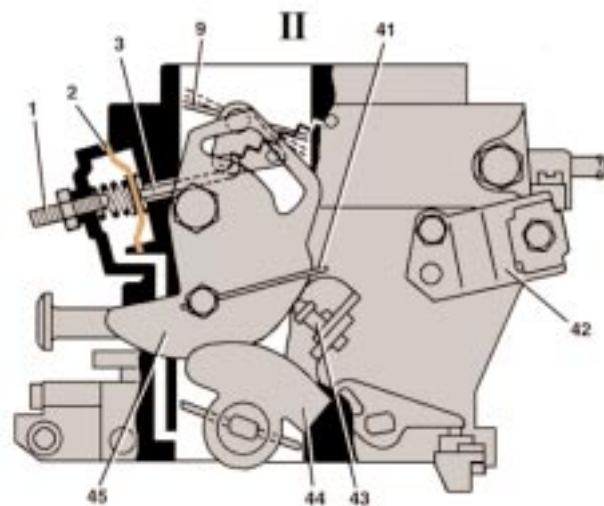
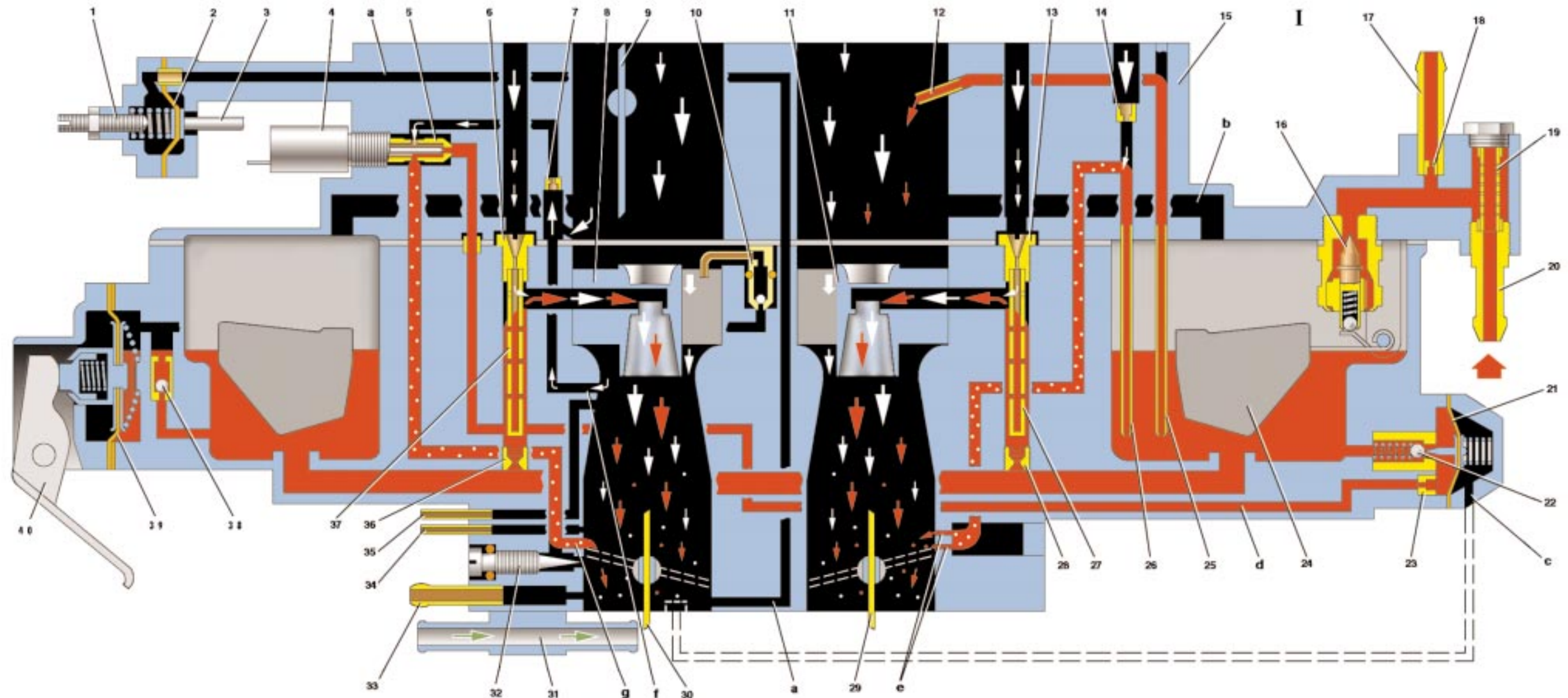
CARBURETTOR

1. Part throttle channel heater
2. Primary throttle
3. Crankcase emission suction union
4. Accelerator pump operating lever
5. Accelerator pump rocker arm
6. Accelerator pump diaphragm
7. Fuel jet, part throttle enrichment
8. Ball valve, part throttle enrichment
9. Diaphragm, part throttle enrichment

10. Electromagnetic shut-off valve
11. Idling fuel jet
12. Return pipe to fuel tank
13. Carburettor cover
14. Supply union
15. Primary barrel main air jet
16. Choke valve plate
17. Accelerator pump atomizers
18. Pull-down diaphragm
19. Adjustment screw
20. Throttle stop screw

- 21.22. Vacuum discharge to EGR system
23. Vacuum discharge to ignition distributor vacuum control
24. Idle mixture adjusting screw
25. Primary throttle adjustment screw (pull-down unit)
26. Choke operating lever
27. Choke drive lever
28. Secondary barrel main air jet
29. Emulsion tube
30. Secondary barrel main fuel atomizer
31. Fuel filter
32. Float chamber needle valve

33. Carburettor body
34. Secondary throttle
35. Secondary throttle lever
36. Secondary barrel main fuel jet
37. Secondary throttle operating lever
38. Float
39. Throttle valves operating lever
40. Secondary barrel lock lever



CARBURETTOR OPERATION DIAGRAM

- 1. Adjustment screw (choke pull-down unit)
- 2. Pull-down diaphragm
- 3. Pushrod
- 4. Electromagnetic shut-off valve
- 5. Idling fuel jet
- 6. Main air jet, primary barrel
- 7. Idling air jet
- 8. Main fuel atomizer, primary barrel
- 9. Choke valve plate
- 10. Accelerator pump nozzle
- 11. Main fuel atomizer, secondary barrel

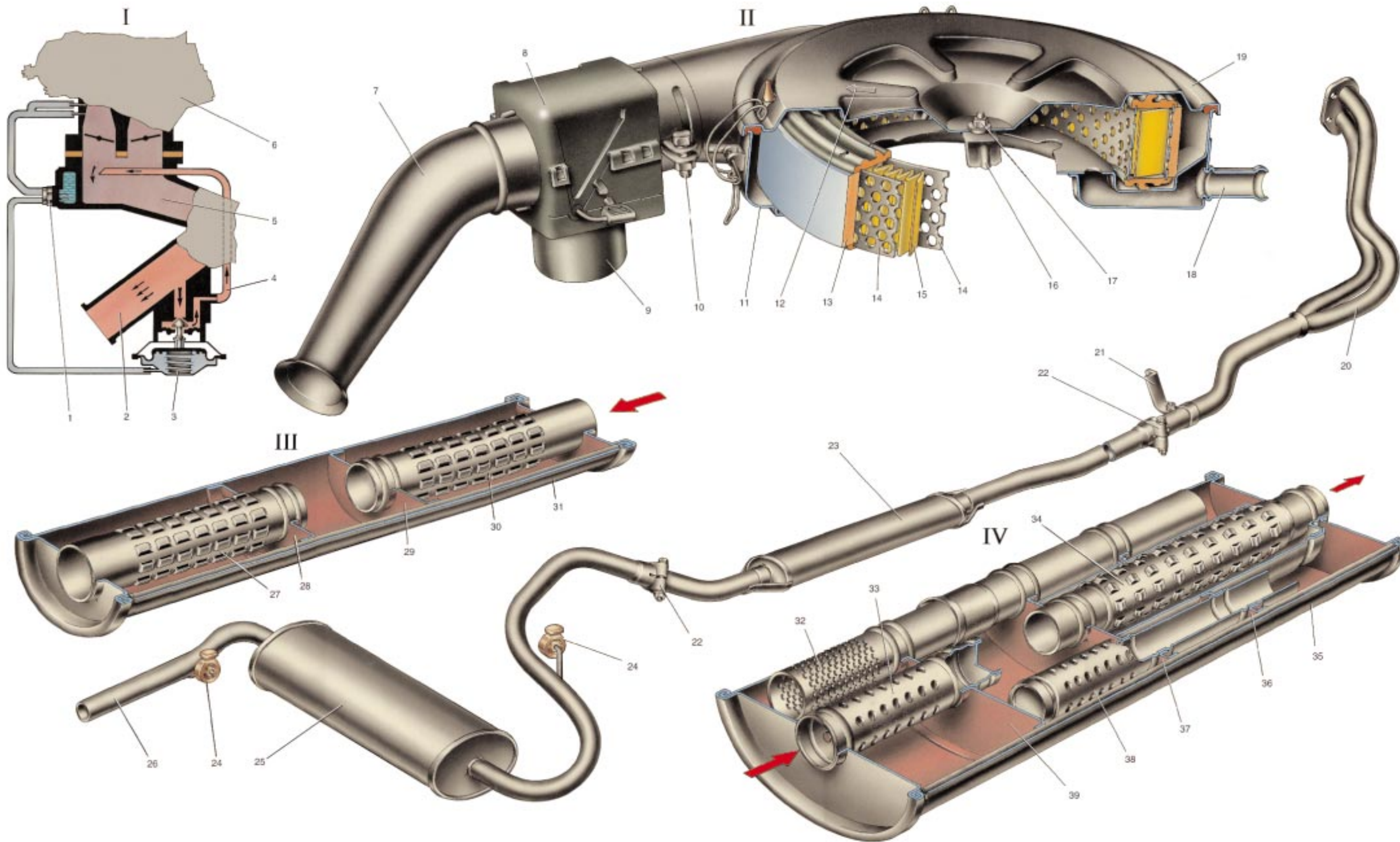
- 12. Injection pipe, full throttle enrichment
- 13. Secondary main air jet
- 14. Air correction jet, secondary barrel
- 15. Carburettor top cover
- 16. Needle valve
- 17. Return line to fuel tank
- 18. Fuel-to-tank return jet
- 19. Fuel filter
- 20. Fuel supply to carburettor
- 21. Diaphragm, part throttle enrichment
- 22. Ball valve, part throttle enrichment
- 23. Fuel jet, part throttle enrichment
- 24. Float

- 25. Fuel jet and tube, full throttle enrichment
- 26. Secondary barrel fuel correction jet with tube
- 27. Secondary barrel emulsion tube
- 28. Secondary barrel main fuel jet
- 29. Secondary throttle
- 30. Primary throttle
- 31. Part throttle channel heater
- 32. Idle mixture adjustment screw
- 33. Crankcase emission discharge pipe
- 34. Vacuum discharge to ignition distributor vacuum control
- 35. Vacuum discharge to EGR valve (second pipe is not shown)

- 36. Primary main fuel jet
- 37. Primary emulsion tube
- 38. Accelerator pump non-return ball valve
- 39. Accelerator pump diaphragm
- 40. Accelerator pump operating lever
- 41. Choke drive lever
- 42. Outer rod securing bracket
- 43. Primary throttle adjusting screw (pull-down unit)
- 44. Throttle valve operating lever
- 45. Choke control lever
- 46. Fuel supply ball valve
- 47. Accelerator pump operating cam

- a. Air passage, pull-down unit
- b. Float chamber balance passage
- c. Air passage, part throttle enrichment
- d. Fuel passage, part throttle enrichment
- e. Secondary correction outlet ports
- f. Idling air passage hole
- g. Idling transients hole

- I. Carburettor operation diagram at full throttle
- II. Pull-down unit operation diagram
- III. Carburettor operation diagram at idle speed
- IV. Carburettor operation diagram at part throttle
- V. Acceleration pump operation diagram



AIR CLEANER. SILENCERS.

- 1. EGR valve thermo-vacuum switch
- 2. Exhaust manifold
- 3. EGR valve
- 4. EGR tube
- 5. Intake manifold
- 6. Carburettor
- 7. Cold air intake

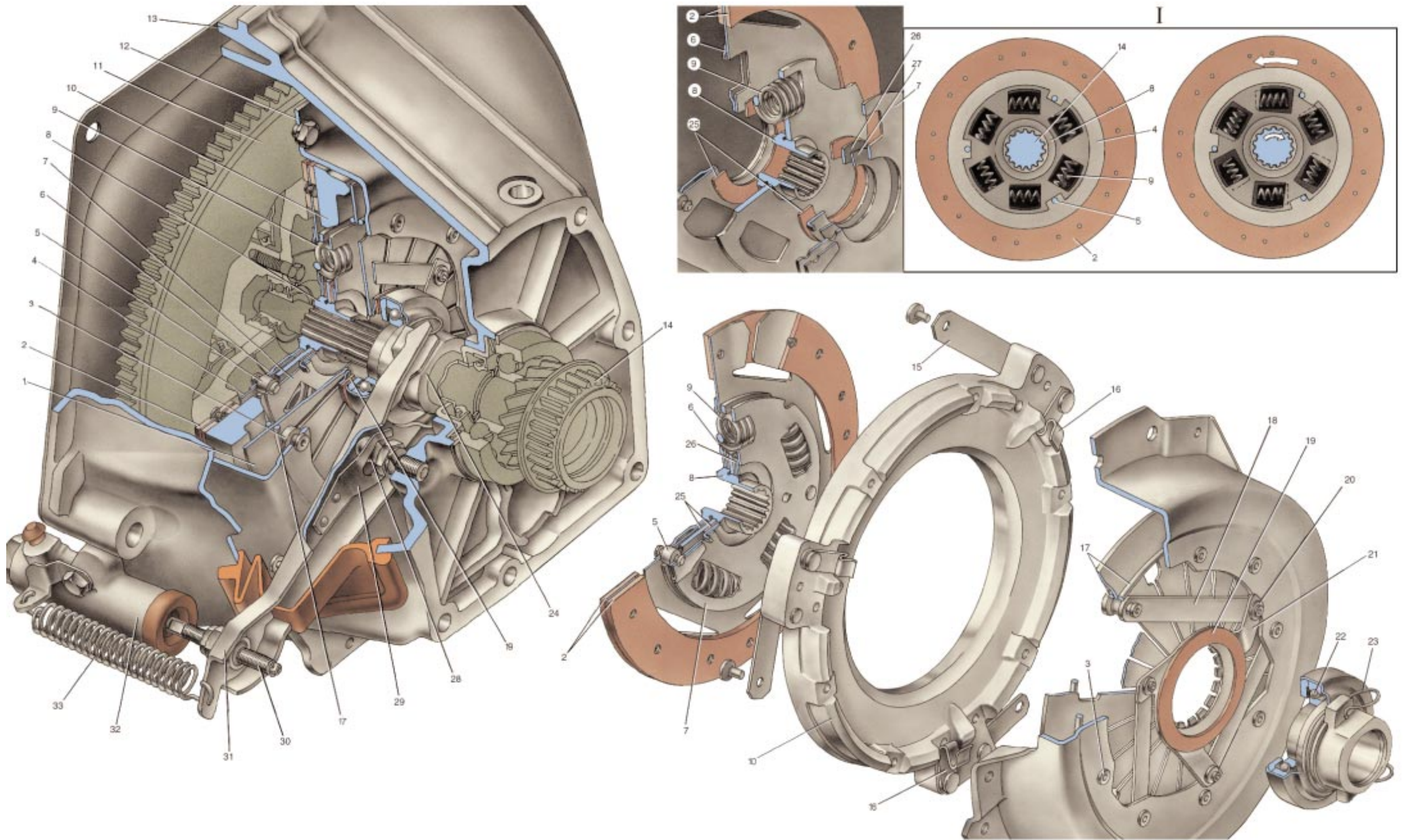
- 8. Temperature flap
- 9. Warm air intake manifold
- 10. Pinch bolt
- 11. Air cleaner housing
- 12. Pointer for air filter cover alignment
- 13. Gauze
- 14. Filter element perforated plates
- 15. Paper filter element
- 16. Air cleaner cover mounting bracket

- 17. Securing nut
- 18. Discharge pipe
- 19. Air cleaner cover
- 20. Front exhaust pipe
- 21. Front exhaust pipe bracket
- 22. Clips
- 23. Intermediate silencer
- 24. Suspension rings
- 25. Main silencer

- 26. Tail pipe
- 27. Intermediate silencer rear perforated tube
- 28. Intermediate silencer rear baffle plate
- 29. Front baffle plate
- 30. Front perforated tube
- 31. Intermediate silencer housing
- 32. Main silencer front perforated tube
- 33. Main silencer inlet pipe
- 34. Main silencer outlet pipe

- 35. Main silencer housing
- 36. Rear baffle plate
- 37. Centre baffle plate
- 38. Rear perforated tube
- 39. Front baffle plate

- I. Recirculation diagram
- II. Air cleaner unit
- III. Intermediate silencer
- IV. Main silencer



CLUTCH

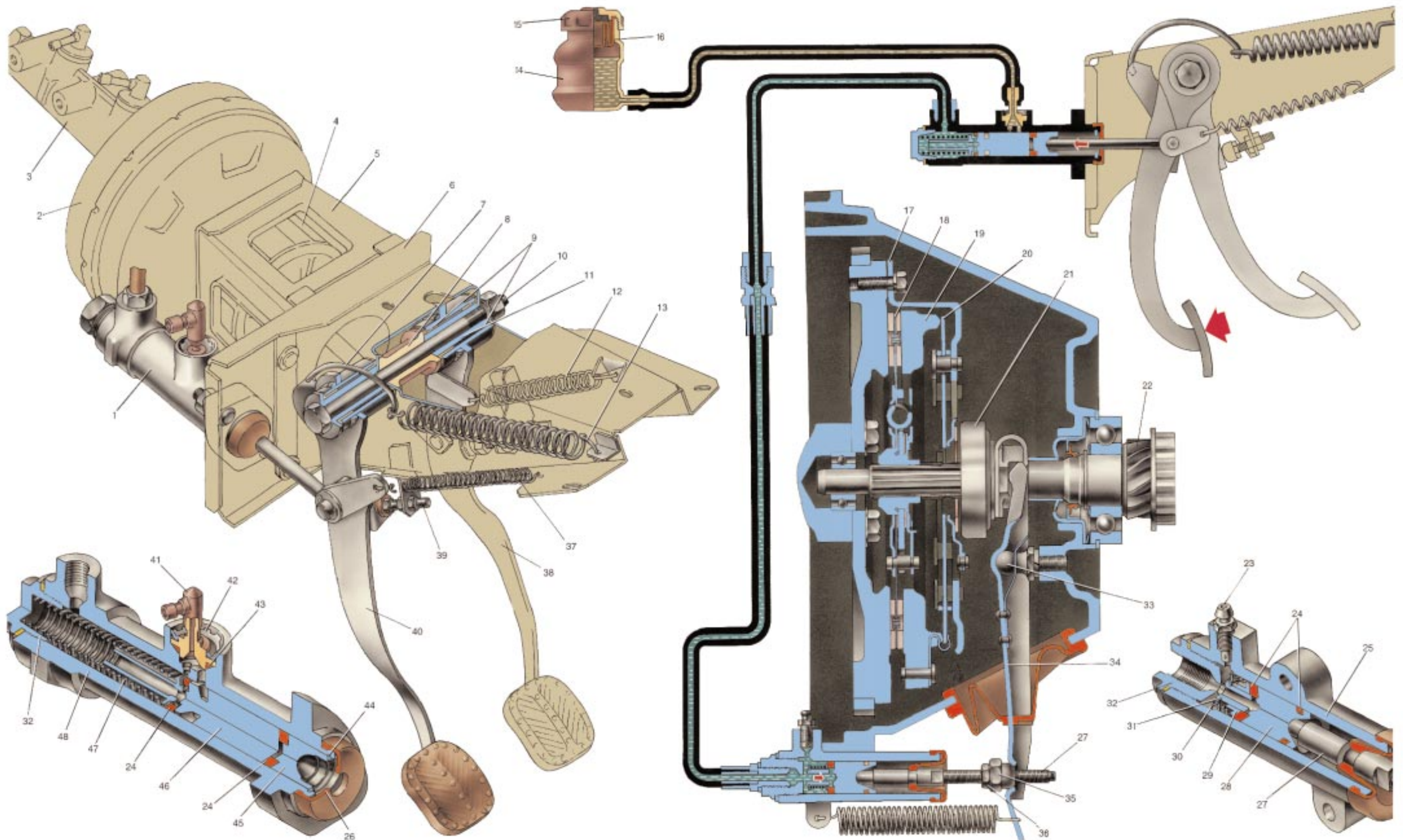
- 1. Diaphragm spring
- 2. Clutch friction discs
- 3. Diaphragm spring rivet
- 4. Clutch disc
- 5. Rivet - damper tip
- 6. Disc adaptor

- 7. Retainer plate
- 8. Clutch disc hub
- 9. Damper spring
- 10. Pressure plate
- 11. Flywheel
- 12. Clutch cover
- 13. Clutch bellhousing
- 14. Gearbox input shaft

- 15. Pressure plate - to - clutch cover strap
- 16. Diaphragm spring clip
- 17. Diaphragm spring fulcrum ring
- 18. Thrust flange / clutch cover strap
- 19. Thrust flange friction washer
- 20. Strap rivet
- 21. Diaphragm spring thrust flange
- 22. Release bearing

- 23. Clutch release fork / bearing spring
- 24. Clutch release bearing
- 25. Damper friction washer
- 26. Spring washer bearing disc
- 27. Damper spring washer
- 28. Release fork ball pivot
- 29. Release fork spring
- 30. Release fork pushrod

- 31. Clutch release fork
 - 32. Slave cylinder
 - 33. Release fork return spring
- I. Damper operation diagram



CLUTCH OPERATION SYSTEM

- 1. Clutch master cylinder
- 2. Vacuum servo unit
- 3. Brake master cylinder
- 4. Servo boot
- 5. Vacuum servo bracket
- 6. Pedal cluster mounting bracket
- 7. Over-centre spring hook

- 8. Pedal spacer sleeve
- 9. Pedal outer bushes
- 10. Brake / clutch pedal shaft
- 11. Pedal inner bush
- 12. Brake pedal return spring
- 13. Booster spring
- 14. Master cylinder fluid reservoir
- 15. Filler cap
- 16. Baffle

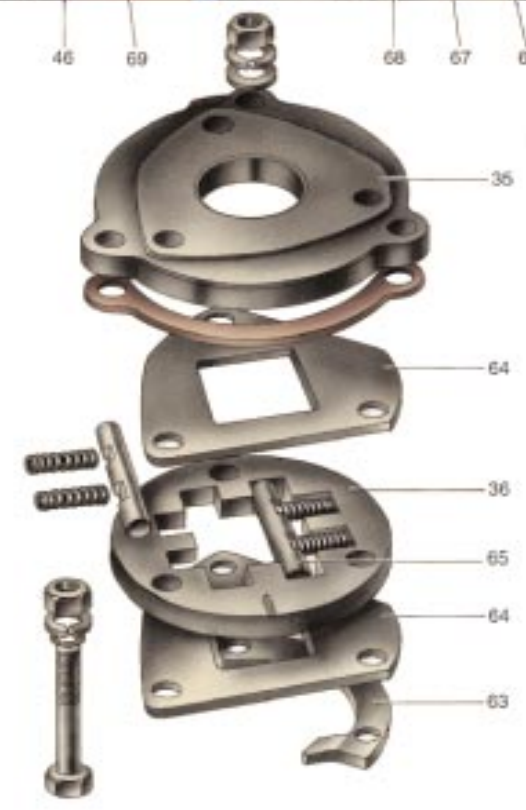
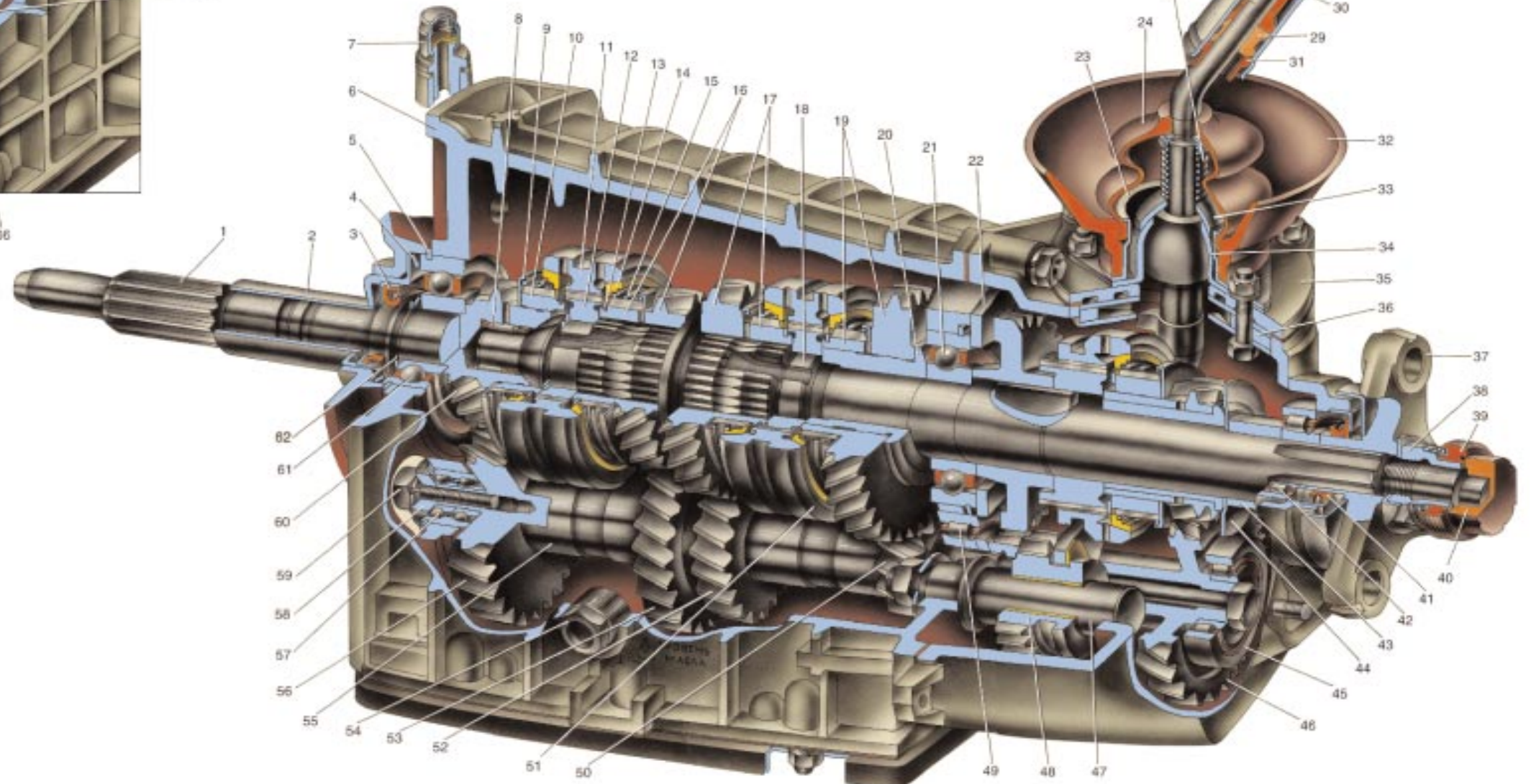
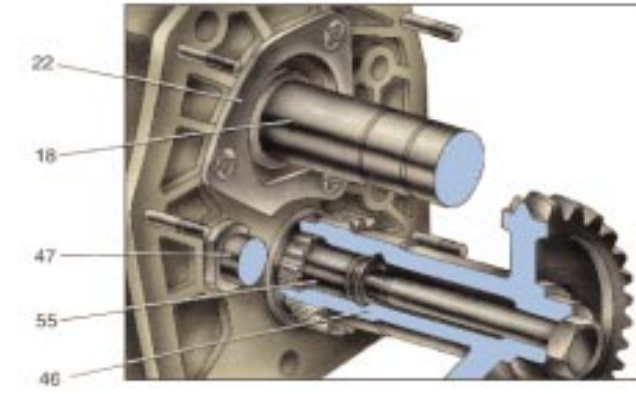
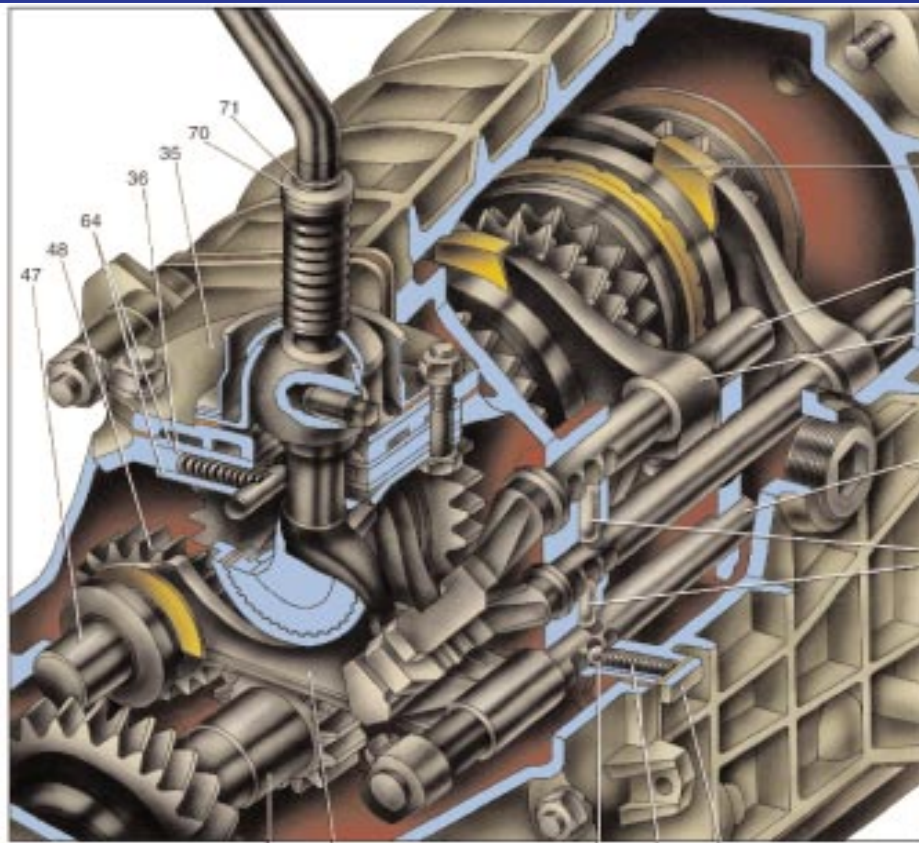
- 17. Clutch cover
- 18. Clutch disc
- 19. Pressure plate
- 20. Diaphragm spring
- 21. Clutch release bearing
- 22. Gearbox input shaft
- 23. Bleed nipple
- 24. Sealing ring
- 25. Slave cylinder housing

- 26. Protective cap
- 27. Release fork pushrod
- 28. Piston
- 29. Piston bearing plate
- 30. Spring disc
- 31. Circlip
- 32. Plug
- 33. Clutch release fork ball pivot
- 34. Clutch release fork

- 35. Adjustment nut
- 36. Locknut
- 37. Clutch pedal return spring
- 38. Brake pedal
- 39. Clutch pedal screw
- 40. Clutch pedal
- 41. Union
- 42. Retaining washer
- 43. Gasket

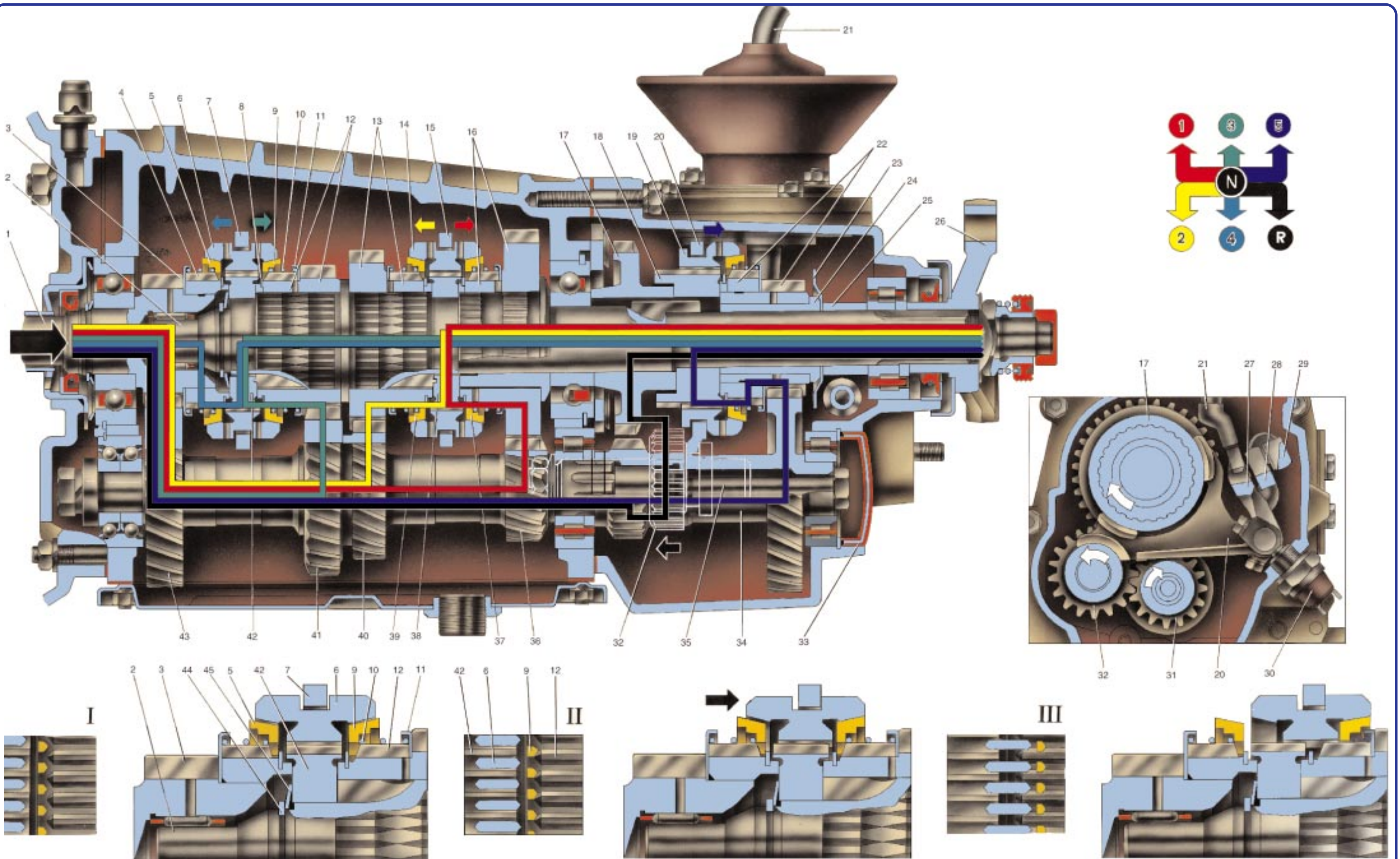
- 44. Circlip
- 45. Pushrod piston
- 46. Master cylinder piston
- 47. Return spring
- 48. Master cylinder body

I. Clutch hydraulic system operation diagram



GEARBOX

- | | | | | | |
|---|---|--|--|--|--|
| <ul style="list-style-type: none"> 1. Input shaft 2. Gearbox front cover with clutch release bearing guide sleeve 3. Input shaft oil seal 4. Spring washer 5. Bearing thrust ring 6. Gearbox housing 7. Breather 8. Output shaft needle bearing 9. Synchro sleeve thrust washer 10. 4th speed synchro unit crown 11. 3rd / 4th synchro unit sleeve 12. 3rd / 4th synchro unit hub | <ul style="list-style-type: none"> 13. Circlip 14. Synchro - ring 15. Spring 16. 3rd speed synchro gear 17. 2nd speed synchro gear 18. Output shaft 19. 1st speed synchro gear 20. 1st gear bush 21. Output shaft idler bearing 22. Lock plate 23. Flange 24. Bellows 25. Spring 26. Gear change lever 27. Lever rod | <ul style="list-style-type: none"> 28. Thrust ring 29. Rubber ring 30. Spacer 31. Retaining sleeve 32. Collar 33. Cap 34. Ball socket 35. Gear change lever housing 36. Guide plate 37. Propeller shaft coupling flange 38. Nut 39. Centering ring seal 40. Centering ring 41. Output shaft rear bearing oil seal 42. Output shaft rear bearing | <ul style="list-style-type: none"> 43. Spacer sleeve 44. Oil deflector washer 45. Gear unit bearing 46. 5th speed / reverse gear unit 47. Reverse idler gear shaft 48. Reverse idler gear 49. Intermediate shaft rear bearing 50. Intermediate shaft 1st speed gear 51. 1st/2nd synchro sleeve 52. Intermediate shaft 2nd speed gear 53. Intermediate shaft 3rd speed gear 54. Filler and check orifice cap 55. Intermediate shaft 56. Intermediate shaft constant mesh gear 57. Intermediate shaft front bearing | <ul style="list-style-type: none"> 58. Intermediate shaft bearing clamping washer 59. Clamping washer bolt 60. Input shaft constant mesh gear 61. Input shaft rear bearing 62. Circlip 63. Reverse lock clip 64. Guide plate washers 65. Guide bar 66. Detents cover 67. Spring 68. Detent 69. 5th / reverse shift fork 70. Thrust washer 71. Circlip 72. 3rd / 4th selector fork | <ul style="list-style-type: none"> 73. 1st / 2nd selector rod 74. 3rd / 4th selector rod 75. 1st / 2nd selector fork 76. 5th / reverse selector rod 77. Locking collets |
|---|---|--|--|--|--|



GEARBOX OPERATION DIAGRAM

- 1. Input shaft
- 2. Output shaft
- 3. Input shaft constant mesh gear
- 4. 4th speed synchro crown
- 5. 4th gear synchro baulk ring
- 6. 3rd and 4th synchro sleeve
- 7. 3rd and 4th gear selector fork
- 8. Synchro circlip

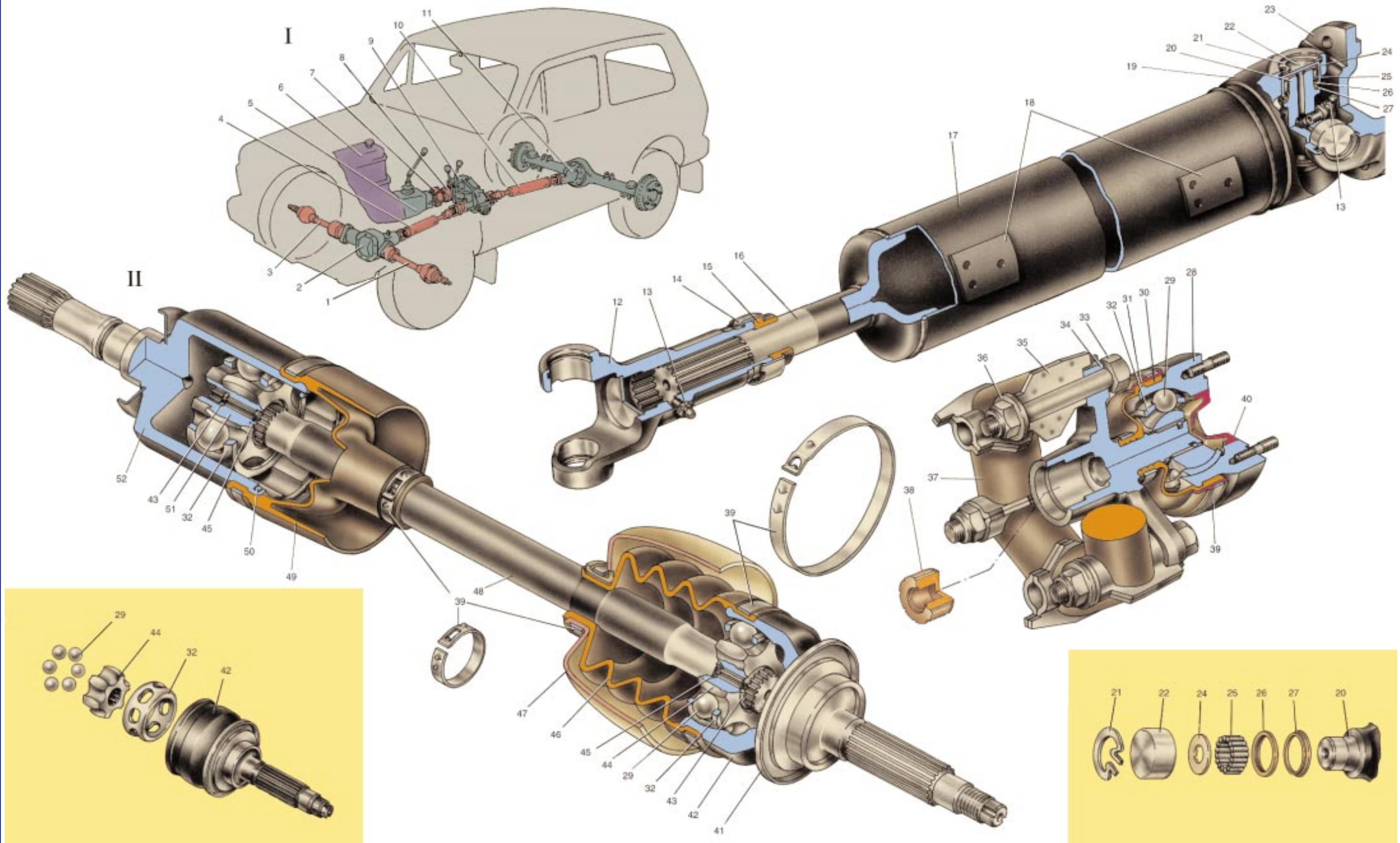
- 9. 3rd synchro baulk ring
- 10. Synchro spring
- 11. Synchro spring thrust washer
- 12. 3rd synchro gear and crown
- 13. 2nd synchro gear and crown
- 14. 1st and 2nd synchro sleeve
- 15. 1st and 2nd gear selector fork
- 16. 1st synchro gear and crown
- 17. Reverse gear
- 18. 5th synchro sleeve hub

- 19. 5th synchro sleeve
- 20. 5th and reverse gear selector fork
- 21. Gear change lever
- 22. 5th synchro gear and crown
- 23. Oil deflector washer
- 24. 5th gear bush
- 25. Distance sleeve
- 26. Flexible sleeve flange
- 27. 5th gear and reverse selector rod
- 28. 3rd and 4th selector rod

- 29. 1st and 2nd selector fork rod
- 30. Reverse light switch
- 31. Gear unit reverse gear
- 32. Reverse idler gear
- 33. End plug
- 34. 5th and reverse gear unit
- 35. Reverse idler gear shaft
- 36. Layshaft 1st speed gear
- 37. 1st synchro baulk ring
- 38. 1st and 2nd synchro sleeve hub

- 39. 2nd synchro baulk ring
- 40. Layshaft 2nd speed gear
- 41. Layshaft 3rd speed gear
- 42. 3rd and 4th synchro sleeve hub
- 43. Layshaft constant mesh gear
- 44. Circlip
- 45. Poppet spring

- I. Neutral position
- II. Beginning of 3rd gear engagement
- III. Complete engagement of 3rd gear



PROPELLER SHAFT

- 1. LH wheel drive
- 2. Front axle
- 3. RH wheel drive
- 4. Forward propeller shaft
- 5. Gearbox
- 6. Engine
- 7. Layshaft flexible coupling

- 8. Layshaft constant velocity joint
- 9. Torque converter
- 10. Rear propeller shaft
- 11. Rear axle
- 12. Sliding yoke
- 13. Oiler
- 14. Retainer
- 15. Grease seal
- 16. Propeller shaft end

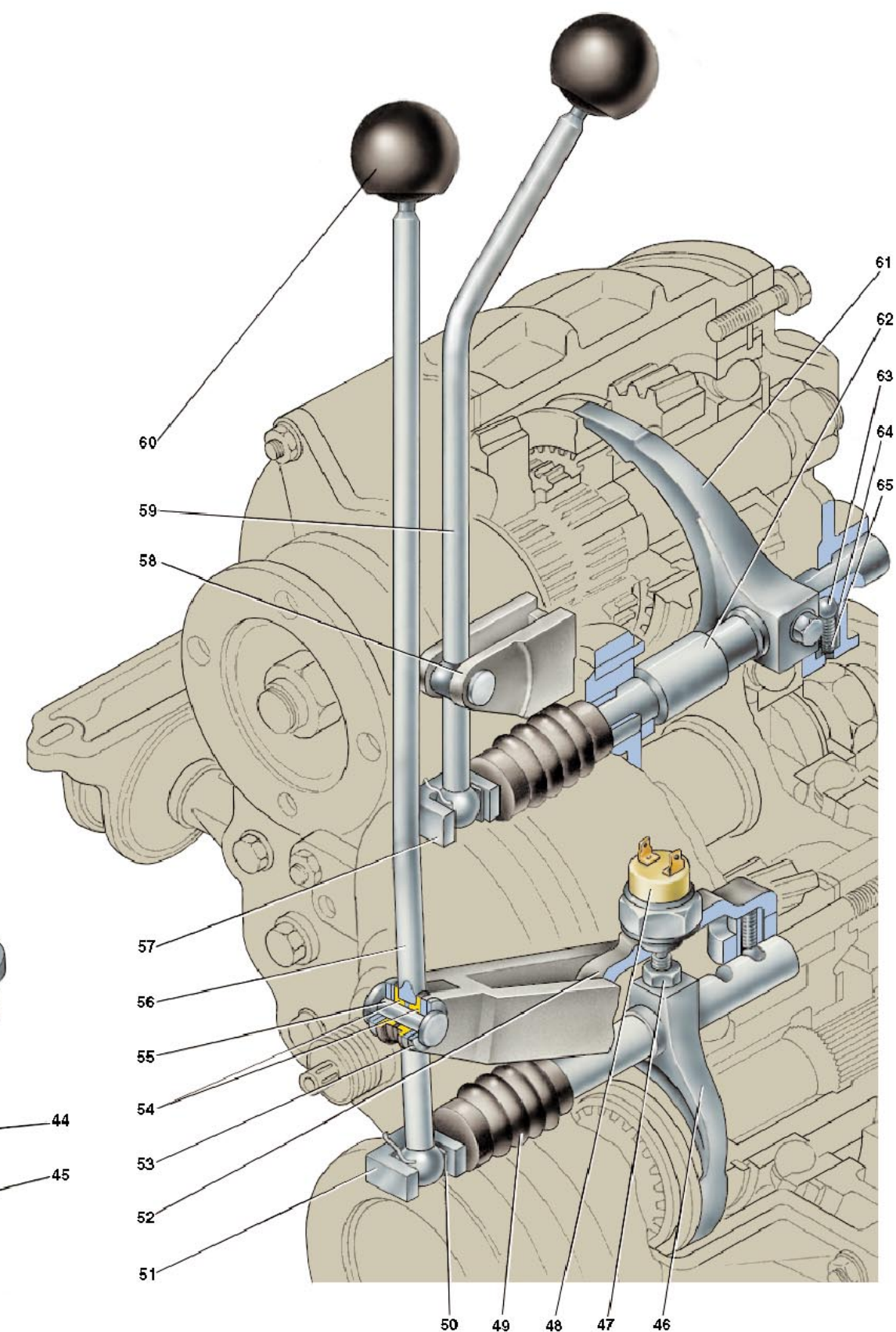
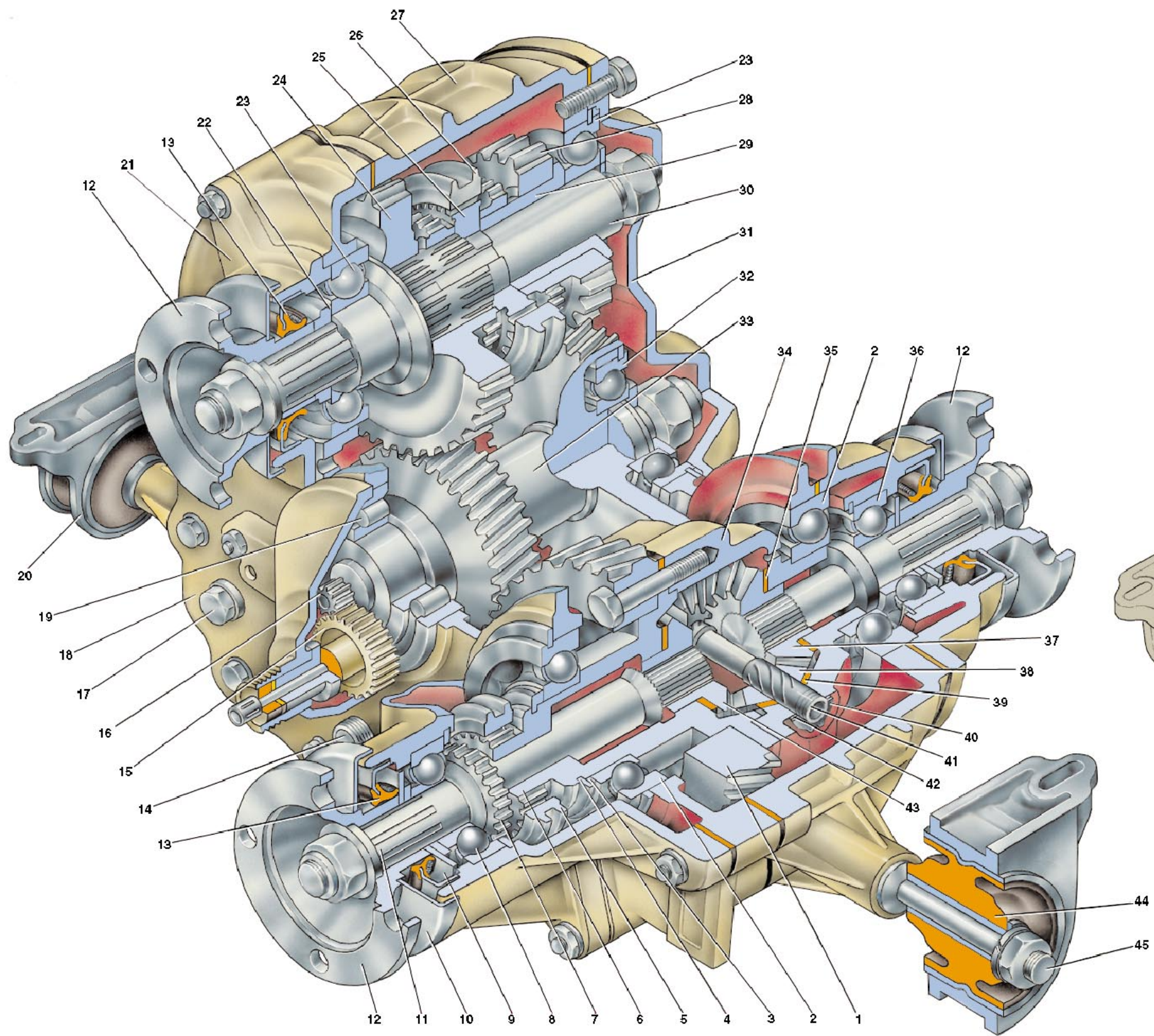
- 17. Propeller shaft tube
- 18. Balance plate
- 19. Propeller shaft joint fork
- 20. Propeller shaft trunnion
- 21. Needle bearing circlip
- 22. Needle roller housing
- 23. Flange - propeller shaft yoke
- 24. Washer
- 25. Needle roller

- 26. Needle bearing oil seal
- 27. Trunnion oil seal
- 28. Constant velocity joint shell
- 29. Ball
- 30. Boot
- 31. Protective shroud
- 32. Cage
- 33. Coupling flange securing bolt
- 34. Coupling flange

- 35. Coupling liner
- 36. Balance washer
- 37. Rubber sleeve
- 38. Centering bush
- 39. Clips
- 40. Plug
- 41. Oil seal splash guard ring
- 42. Outer joint shell
- 43. Circlip

- 44. Outer joint race
- 45. Thrust ring
- 46. Outer joint boot
- 47. Protective sleeve
- 48. Road wheel drive shaft
- 49. Inner joint boot
- 50. Detent
- 51. Inner joint race
- 52. Inner joint shell

- I. Drive line view
- II. Front wheel drive



TORQUE CONVERTER AND ITS DRIVE SYSTEM

- 1. Driven gear
- 2. Differential bearings
- 3. Spring washer
- 4. Circlip
- 5. Differential locking coupling
- 6. Differential carrier crown
- 7. Front axle drive shaft crown
- 8. Front axle drive shaft bearing
- 9. Oil slinger

- 10. Splash guard
- 11. Front axle drive shaft
- 12. Flange
- 13. Oil seal
- 14. Oil drain plug
- 15. Speedometer driven gear
- 16. Speedometer drive gear
- 17. Plug, oil level inspection / top-up orifice
- 18. Torque converter front cover
- 19. Layshaft roller bearing
- 20. Bracket, torque converter mount
- 21. Input shaft bearing cover

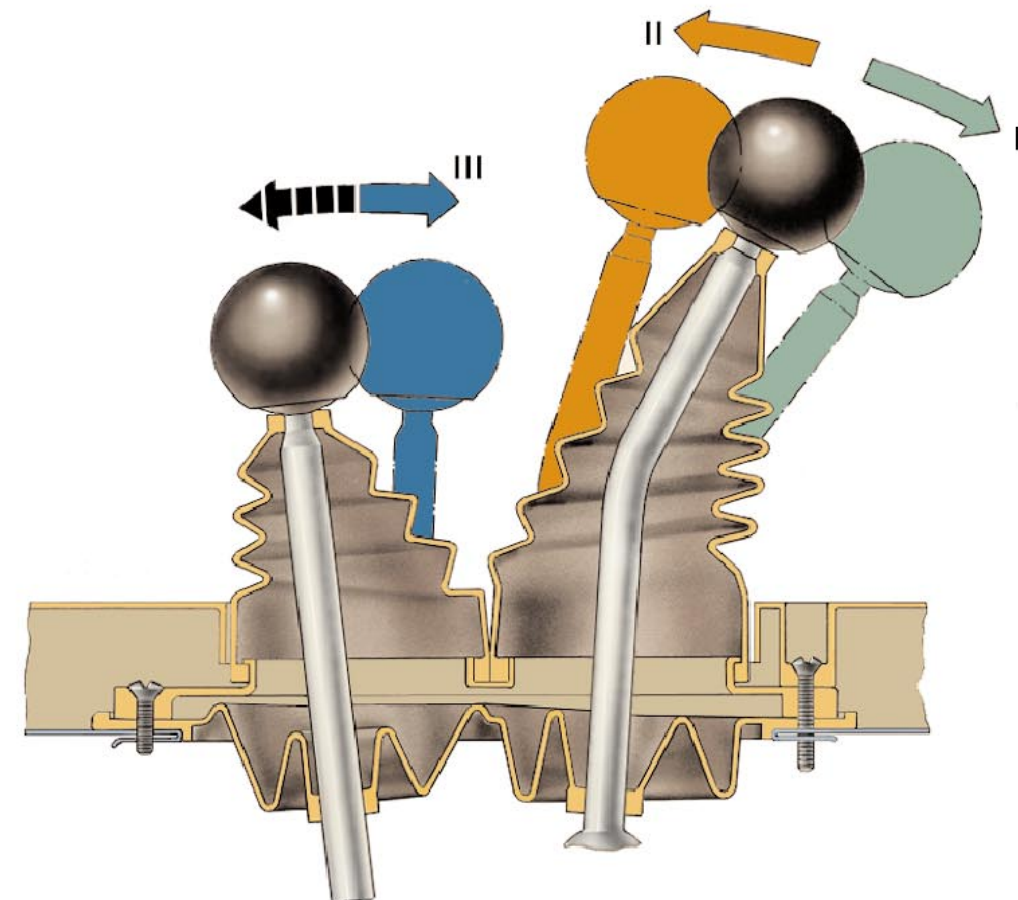
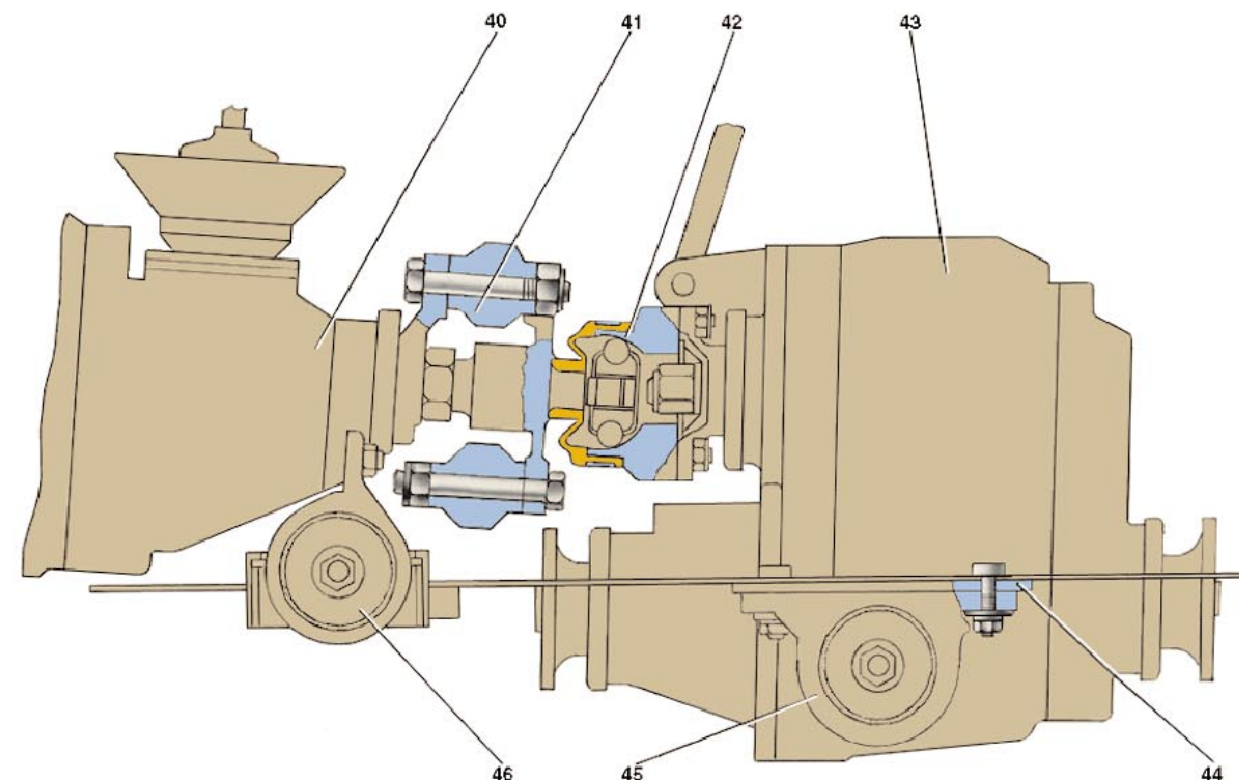
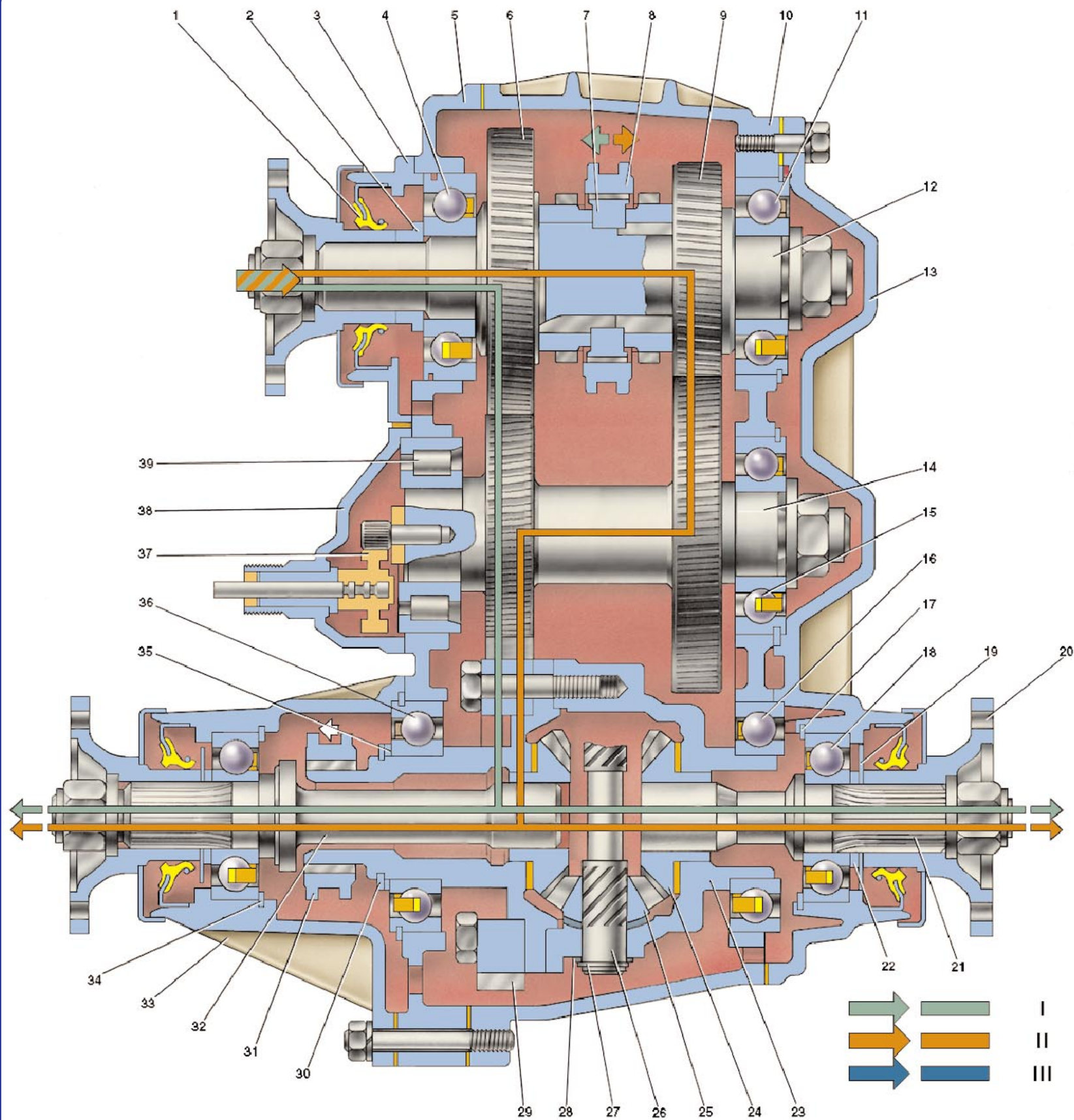
- 22. Bearing thrust ring
- 23. Input shaft bearings
- 24. Top gear
- 25. Gear shift clutch hub
- 26. Gear shift clutch
- 27. Torque converter casing
- 28. Low gear
- 29. Low gear bush
- 30. Input shaft
- 31. Rear cover
- 32. Layshaft ball bearing
- 33. Layshaft

- 34. Differential housing
- 35. Rear axle differential gear thrust washer
- 36. Rear axle drive shaft bearing
- 37. Rear axle differential gear
- 38. Pinion
- 39. Pinion thrust washer
- 40. Circlip
- 41. Pinion shaft
- 42. Spring washer
- 43. Front axle differential gear
- 44. Suspension mounting bracket rubber
- 45. Shaft, torque converter mount

- 46. Differential locking clutch yoke
- 47. Yoke stop bolt
- 48. Locked differential warning light switch
- 49. Boot
- 50. Spring
- 51. Differential locking fork rod
- 52. Front axle case cover
- 53. Lock washer
- 54. Lever shaft bush
- 55. Lever shaft
- 56. Differential locking lever
- 57. Gear shift fork rod

- 58. Gear lever bracket
- 59. Gear lever
- 60. Gear lever knob
- 61. Gear shift clutch fork
- 62. Spacer sleeve
- 63. Detent ball
- 64. Detent spring bush
- 65. Detent spring

I. Torque converter operating system



TORQUE CONVERTER OPERATION DIAGRAM

- 1. Grease seal
- 2. Thrust ring, input shaft front bearing
- 3. Front bearing cover
- 4. Input shaft front bearing
- 5. Torque converter front cover
- 6. Top gear
- 7. Gear engagement clutch hub
- 8. Gear engagement clutch

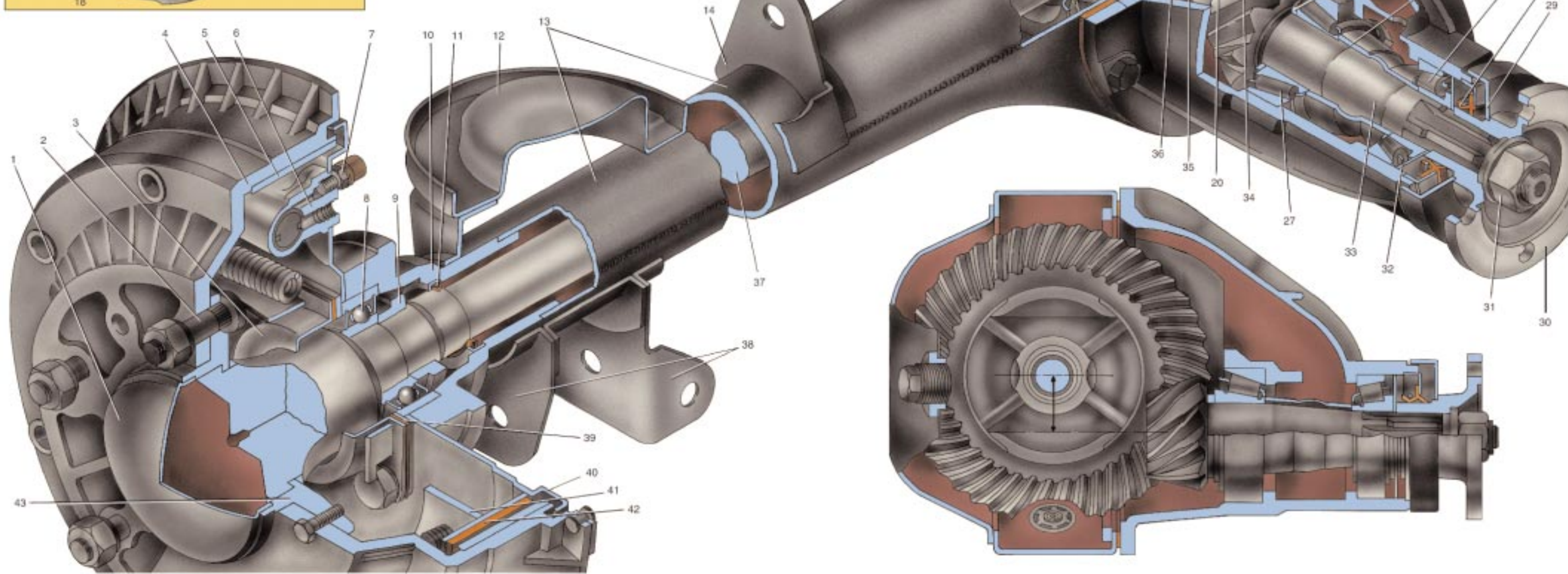
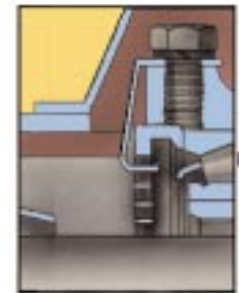
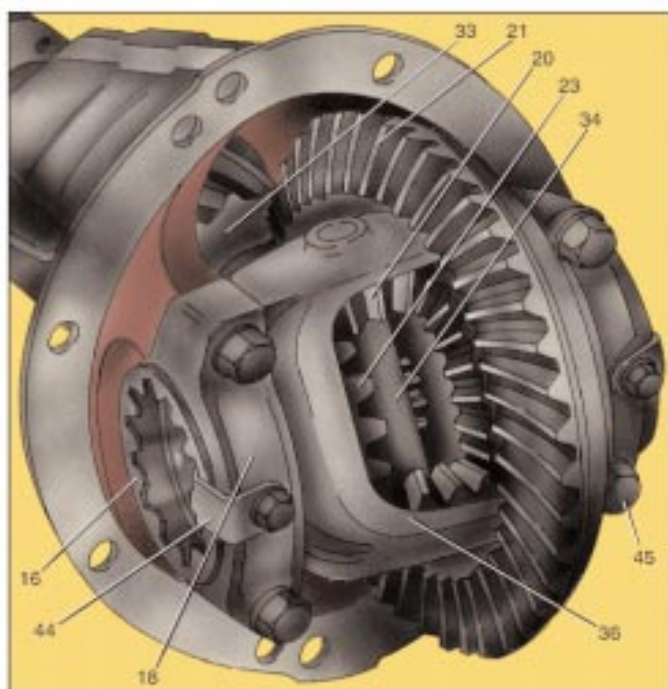
- 9. Low gear
- 10. Torque converter case
- 11. Input shaft rear bearing
- 12. Input shaft
- 13. Torque converter rear cover
- 14. Layshaft
- 15. Layshaft rear bearing
- 16. Differential rear bearing
- 17. Rear axle drive shaft retaining ring
- 18. Rear axle drive shaft bearing
- 19. Oil slinger
- 20. Rear axle drive shaft flange

- 21. Rear axle drive shaft
- 22. Bearing thrust ring
- 23. Differential housing
- 24. Rear axle drive gear
- 25. Pinion
- 26. Differential pinion shaft
- 27. Differential pinion shaft circlip
- 28. Spring washer
- 29. Driven gear
- 30. Differential front bearing circlip
- 31. Differential lock coupling
- 32. Front axle drive shaft

- 33. Front axle casing
- 34. Circlip, front axle drive shaft bearing
- 35. Differential front bearing spring washer
- 36. Differential front bearing
- 37. Speedometer driven gear
- 38. Speedometer drive unit housing
- 39. Layshaft front bearing
- 40. Gearbox
- 41. Coupling
- 42. CV joint
- 43. Torque converter
- 44. Shims

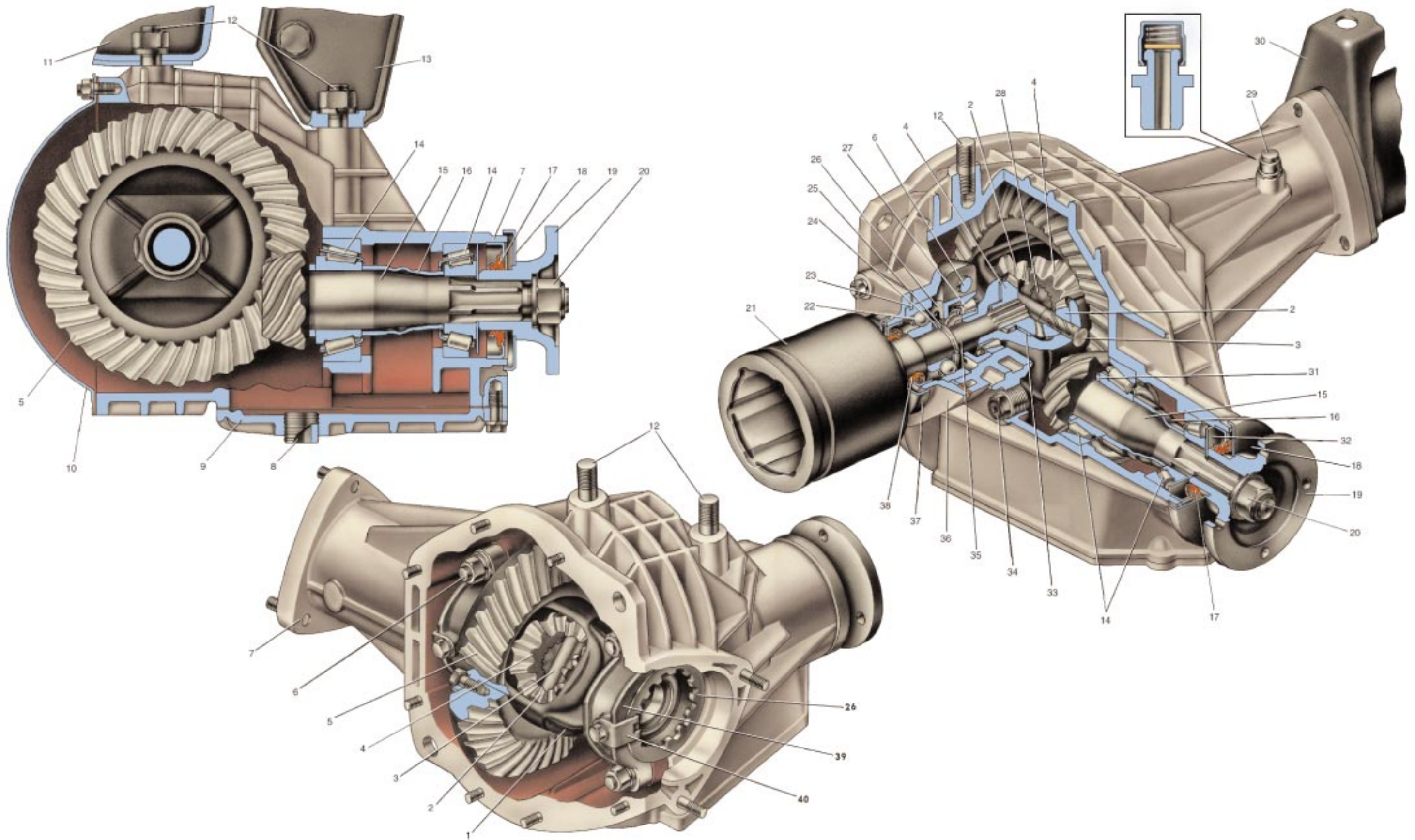
- 45. Bracket, torque converter mounting
- 46. Bracket, engine rear mounting

- I. Top gear engaged
- II. Low gear engaged
- III. Low gear engaged, differential locked up



REAR AXLE

- | | | | | |
|--|---|---|--|---|
| <ul style="list-style-type: none"> 1. Road wheel cap 2. Brake drum - to - wheel securing bolt 3. Oil deflector 4. Brake drum 5. Brake drum iron ring 6. Wheel cylinder 7. Brake bleed nipple 8. Half-shaft bearing | <ul style="list-style-type: none"> 9. Bearing locking collar 10. Rear axle beam flange 11. Half-shaft oil seal 12. Coil spring cup 13. Rear axle beam 14. Suspension bar securing bracket 15. Half-shaft guide 16. Differential bearing nut 17. Differential bearing 18. Differential bearing cover | <ul style="list-style-type: none"> 19. Breather 20. Pinion 21. Crown wheel 22. LH halfshaft 23. Halfshaft gear 24. Rear axle reduction gear casing 25. Drive gear shim 26. Bearing spacer sleeve 27. Bearing, pinion 28. Oil seal, pinion | <ul style="list-style-type: none"> 29. Oil seal splash guard 30. Propeller shaft securing flange 31. Nut 32. Oil baffle 33. Pinion, final drive 34. Differential pinion shaft 35. Half-shaft gear thrust washer 36. Differential case 37. RH halfshaft 38. Bracket to secure suspension components | <ul style="list-style-type: none"> 39. Thrust plate, half-shaft bearing 40. Rear brake backplate 41. Rear brake shoe 42. Friction disc 43. Half-shaft flange 44. Bearing nut lockplate 45. Bearing cover securing bolt |
|--|---|---|--|---|



FRONT AXLE

- 1. Differential case
- 2. Differential pinion
- 3. Differential pinion shaft
- 4. Half-shaft gear
- 5. Crown wheel
- 6. Bearing cover retaining stud
- 7. Front axle casing

- 8. Drain plug
- 9. Casing lower cover
- 10. Casing cover
- 11. Bracket, engine front mounting
- 12. Front axle securing stud
- 13. Front axle securing bracket, LH
- 14. Pinion bearings
- 15. Pinion, final drive
- 16. Spacer sleeve
- 17. Pinion oil seal

- 18. Oil seal splash guard
- 19. Pinion flange
- 20. Flange securing nut
- 21. Road wheel drive inner joint
- 22. Inner joint bearing
- 23. Bearing locating ring
- 24. Spring washer
- 25. Circlip
- 26. Differential bearing adjuster nut
- 27. Differential bearing

- 28. Inner joint shell, RH halfshaft
- 29. Breather
- 30. RH bracket, front axle
- 31. Drive gear shim
- 32. Bearing oil deflector
- 33. Half-shaft gear thrust washer
- 34. Filler plug
- 35. LH half-shaft, inner joint shell
- 36. Inner joint shell bearing cover
- 37. Splash guard, joint shell oil seal

- 38. Oil seal
- 39. Differential bearing cover
- 40. Adjuster nut lockplate