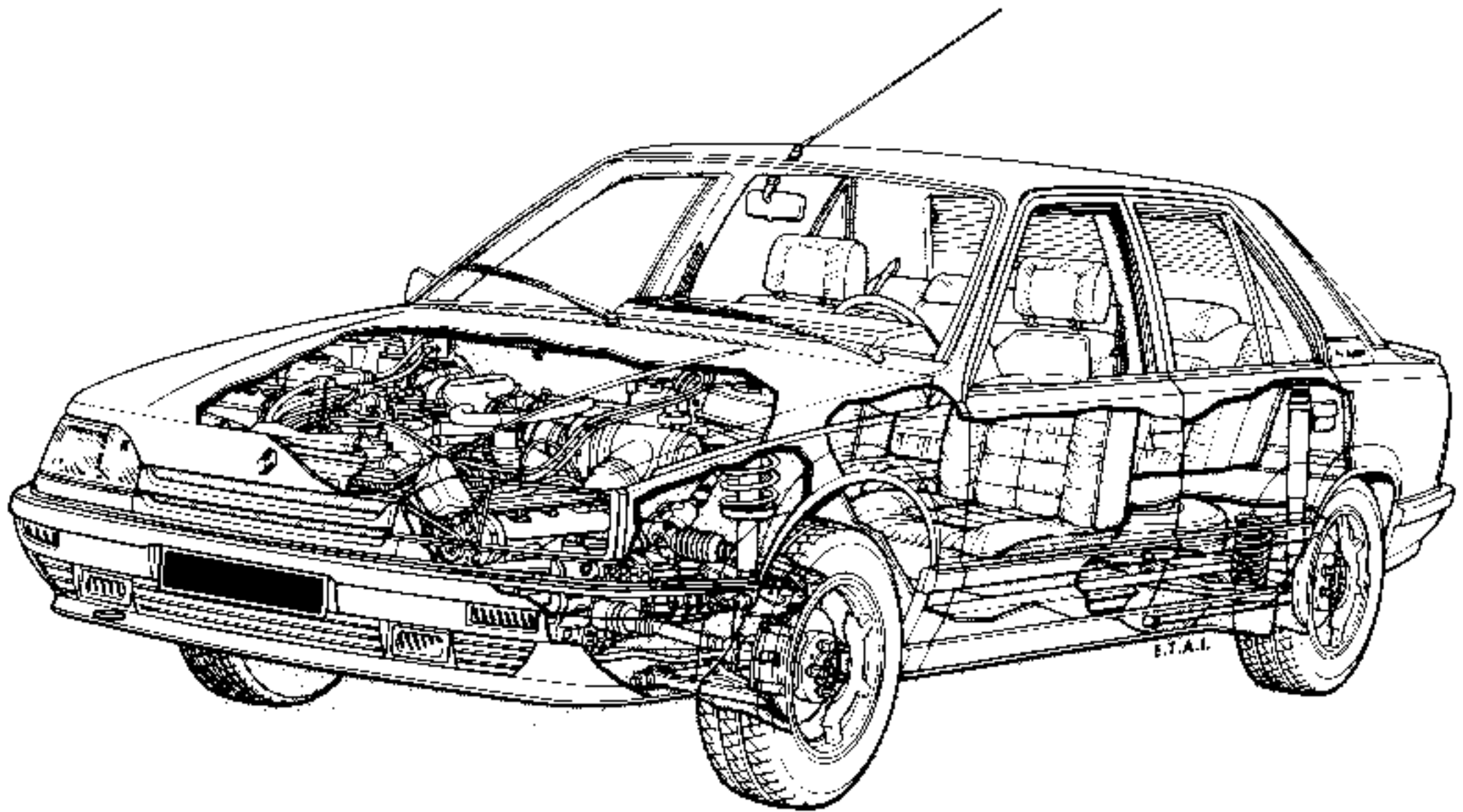
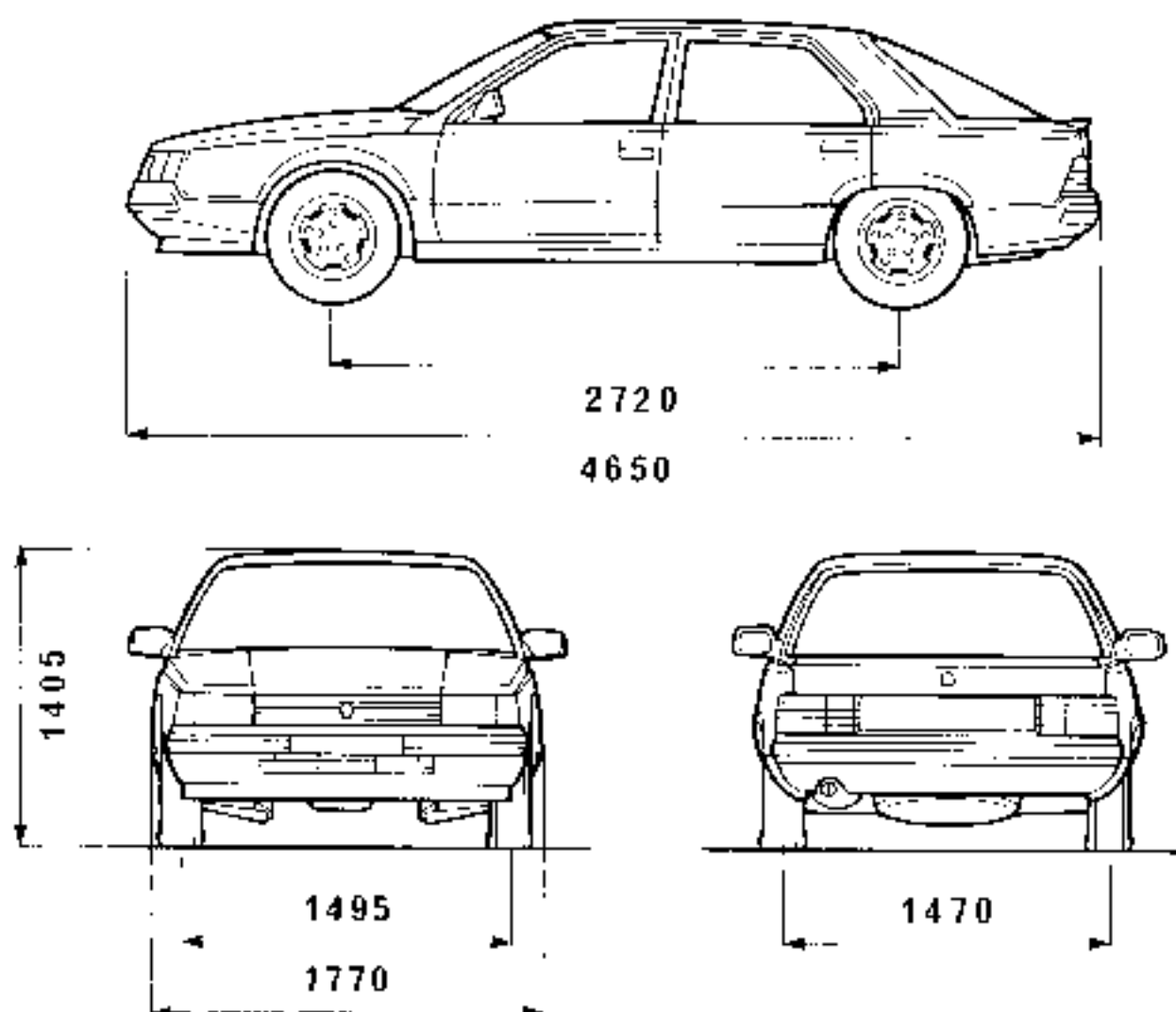




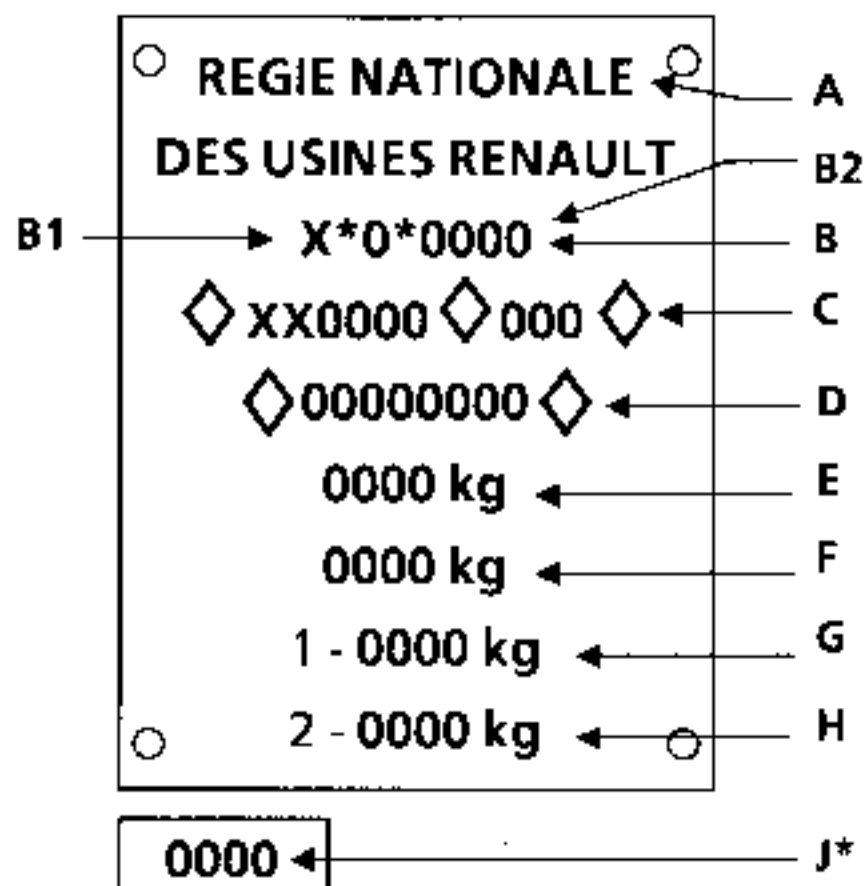


87 639

Engine - Clutch - Gearbox

Vehicle type	Engine		Clutch type	Transmission type	
	Type	Cub. cap.		Manual	Automatic
B 29 W B 290 B 296	J 8 S	2068	215 CP 475 / 215 CP 4500 215 CP 475 / 215 CP 4500 200 DBR 375 / 200 CP 3500	NG3 NG3 NG1	—
B 297	J 6 R	1995	215 CP 475 / 215 CP 4500	NG3	MJ3
B 29 H	J 7 R	1995	215 CP 475 / 215 CP 4500	NG3	AR4
B 292 B 294	J 7 R	1995	215 CP 475 / 215 CP 4500	NG3	AR4
B 29 B B 29 E	J 7 T	2165	215 CP 475 / 215 CP 4500	NG3 UN1 / NG3	MJ3 / AR4
B 29 G B 295	Z 7 U	2458	235 CP 6500 235 DBR 630 / 235 DBR 3050 / 235 CP6050	UN1	—
B 298	Z 7 V	2664	235 DBR 575 / 235 DBR 5500 / 235 CP5500	UN1	4141
B 29 F B 293 B 29 A	Z 7 W	2849	235 DBR 575 / 235 DBR 5500 / 235 CP5500	UN1	AR4 AR4 —

By means of one or two plates: a rectangular plate and an oval plate to the right of the headlight carrier panel.



Rectangular plate*

This contains:

At A : The manufacturer's name.

At B : The EEC reception number, including:

at B1 : the distinctive country number for EEC reception;

at B2 : the reception number linked to the vehicle Mines type.

At C : The vehicle Mines type (France) preceded by the manufacturer's worldwide identification code (e.g. VF1 = Renault France).

At D : The chassis number.

At E : The maximum permitted vehicle weight (GVW)

At F : The maximum permitted total train weight (GTW).

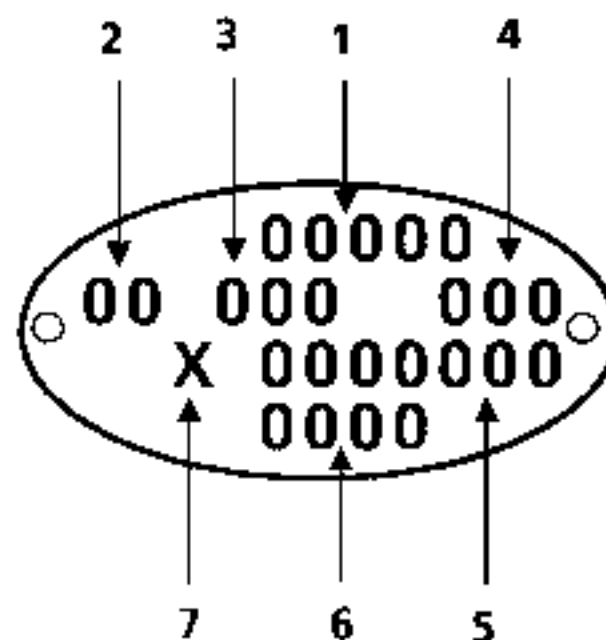
At G : The maximum permitted front axle weight.

At H : The maximum permitted rear axle weight.

At J* : The current model year or the paint identification.

* NOTE:

Depending on the country of export, some of this information may not be included. The plate described above has the most detailed information.



OVAL PLATE

This includes:

At 1 : The vehicle type.

At 2 : Special features of the vehicle*.

At 3 : Basic equipment*.

At 4 : Optional equipment.

At 5 : Fabrication number.

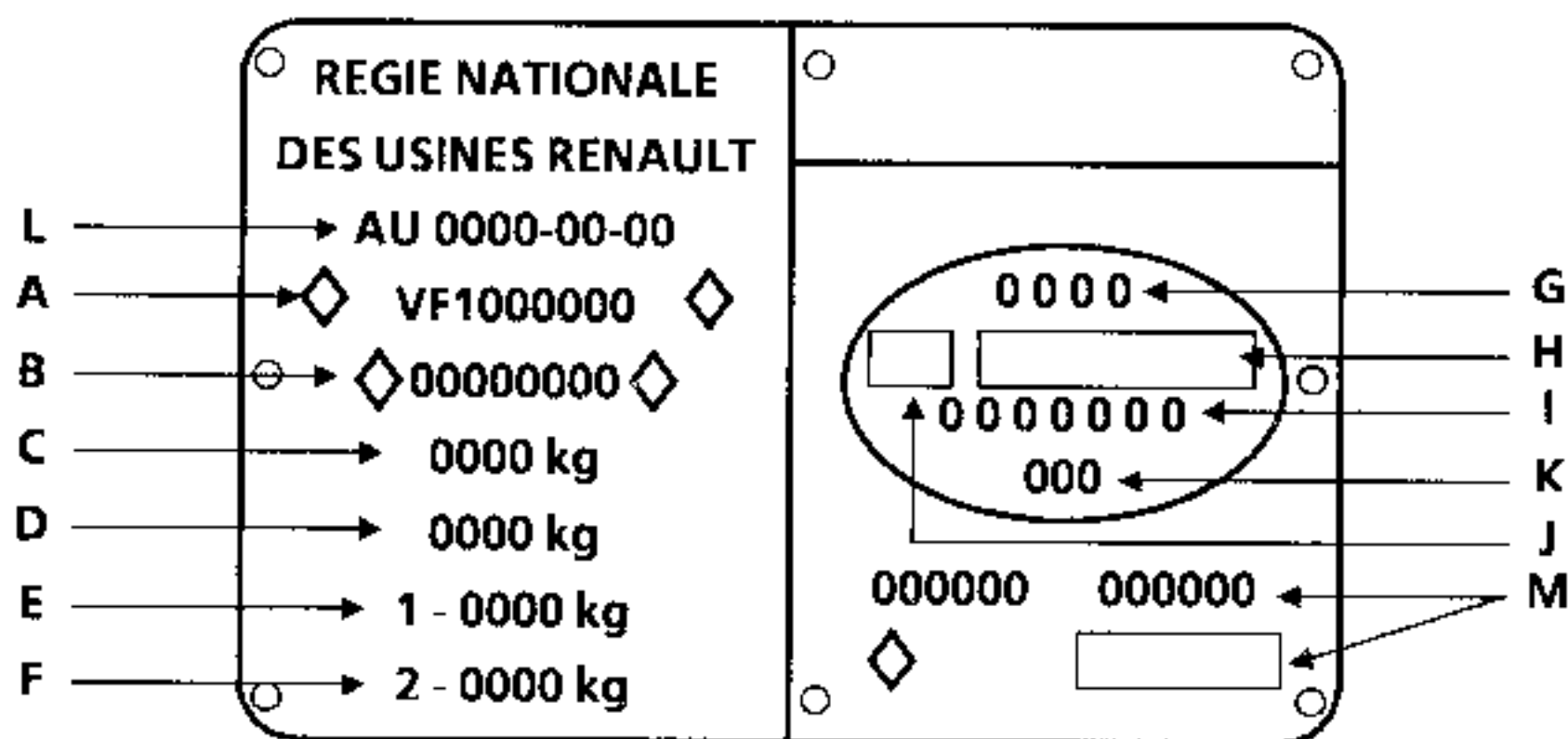
At 6 : The model year* or paint identification*.

At 7 : Vehicle factory symbol.

- A** Portugal
- B** Batilly
- C** Creil
- D** Douai
- E** Spain
- F** Flins
- G** Grand Couronne
- G** Yugoslavia
- H** Haren
- J** Billancourt
- K** Dieppe
- Q** A.M.C.
- S** Sandouville
- T** Matra
- U** Maubeuge
- W** Ireland
- X** Heuliez

* DEPENDING ON COUNTRY OR VERSION.

Single plate*



This includes:

- At A : Vehicle Mines type (VF1 = Renault France).
- At B : The chassis number
- At C : The maximum permitted vehicle weight (GVW).
- At D : The maximum permitted total train weight (GTW).
- At E : The maximum permitted front axle weight.
- At F : The maximum permitted rear axle weight.
- At G : The vehicle type.
- At H : The equipment and optional equipment number.
- At I : The fabrication number.
- At J : Special features of the vehicle.
- At K : The original paint reference*.
- At L : The EEC reception number.
- At M : Additional marking.

* Depending on the country of export, some information may not be included.

Application of technical equipment numbers

	Normal roads		Poor roads		Special equipment	
Up to JUNE 1989	Left-hand drive 100 series	Right-hand drive 600 series	Left-hand drive 200 series	Right-hand drive 700 series	Left-hand drive 200 series	Right-hand drive 700 series
	Normal roads				Speedway	
Since JUNE 1989*	Left-hand drive 10-49 series	Right-hand drive 70-89 series	--		Left-hand drive 50-69 series	Right-hand drive 90-99 series

* The 3rd character corresponds to an extra quality.

 Security symbol (special precautions to be observed when working)

ESSENTIAL SPECIAL TOOLING	
Cha. 280-02	Block to fit trolley jack
Cha. 408-01 or Cha. 408-02	Sleeve to fit trolley jack

 If a trolley jack is used, suitable stands must also be used.

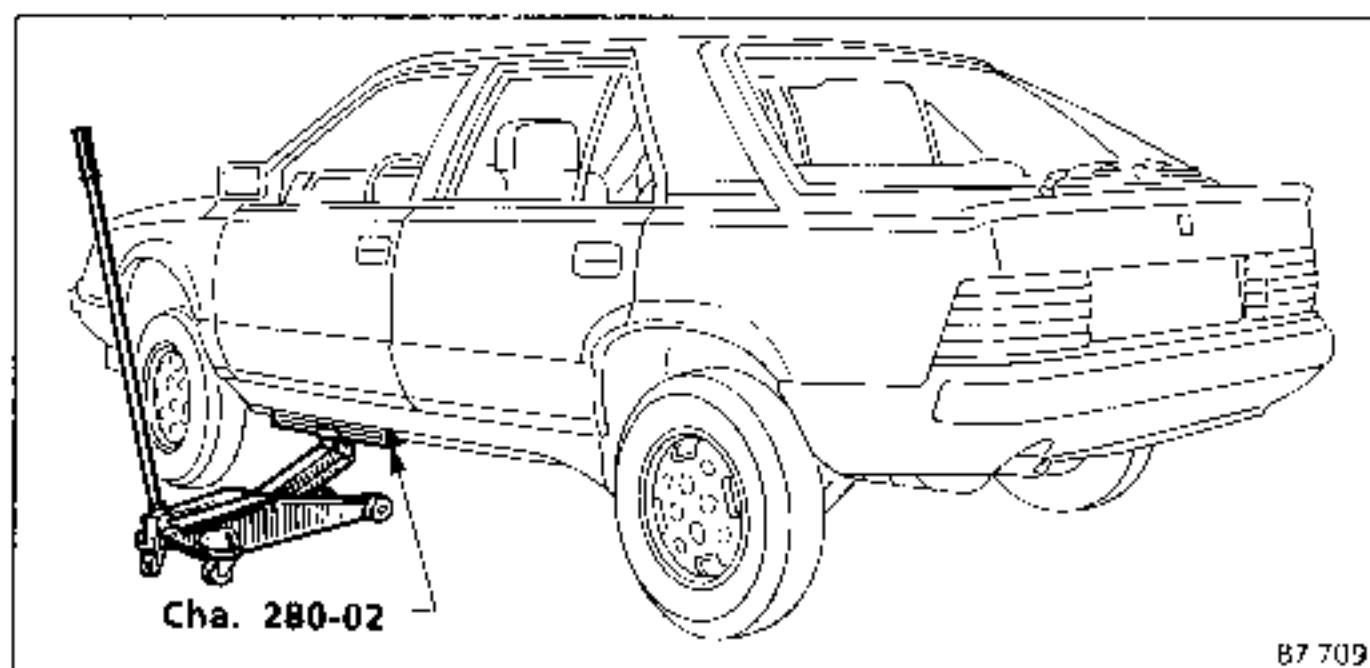
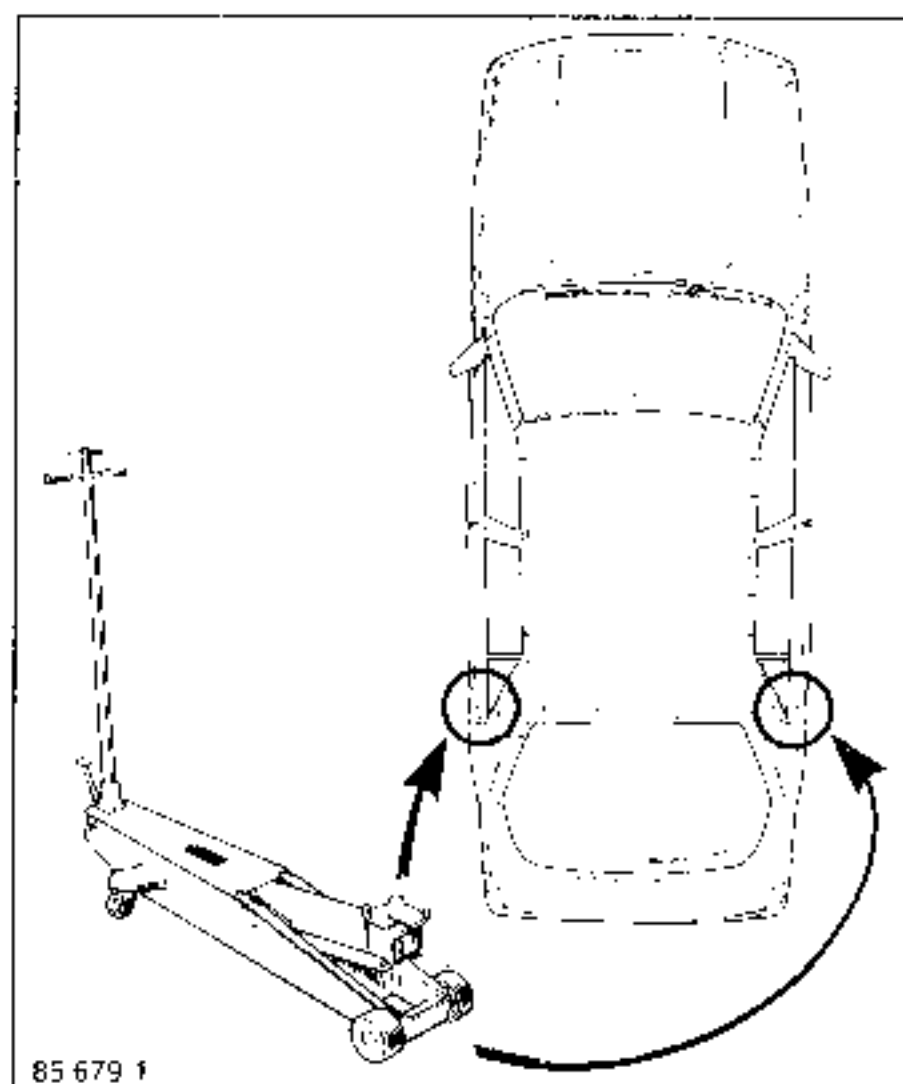
The vehicle must not be lifted with its weight taken by the front or rear suspension arms or under the front cross member between side members.

Depending on the type of trolley jack, use sleeves Cha. 408-01 or Cha. 408-02 to position block Cha. 280-02.

Use the built-in jacking points under the vehicle to raise the front or the rear.

TROLLEY JACK AT THE SIDE

- Use block Cha. 280-02.
- Take the load under the valance in line with the front door.
- Correctly position the body flange in the slot in the block.



TROLLEY JACK AT THE FRONT

The front of the vehicle may be lifted, taking the weight using Cha. 280-02, just behind the cross member between side members.

Make sure that the block is not resting on the exhaust.

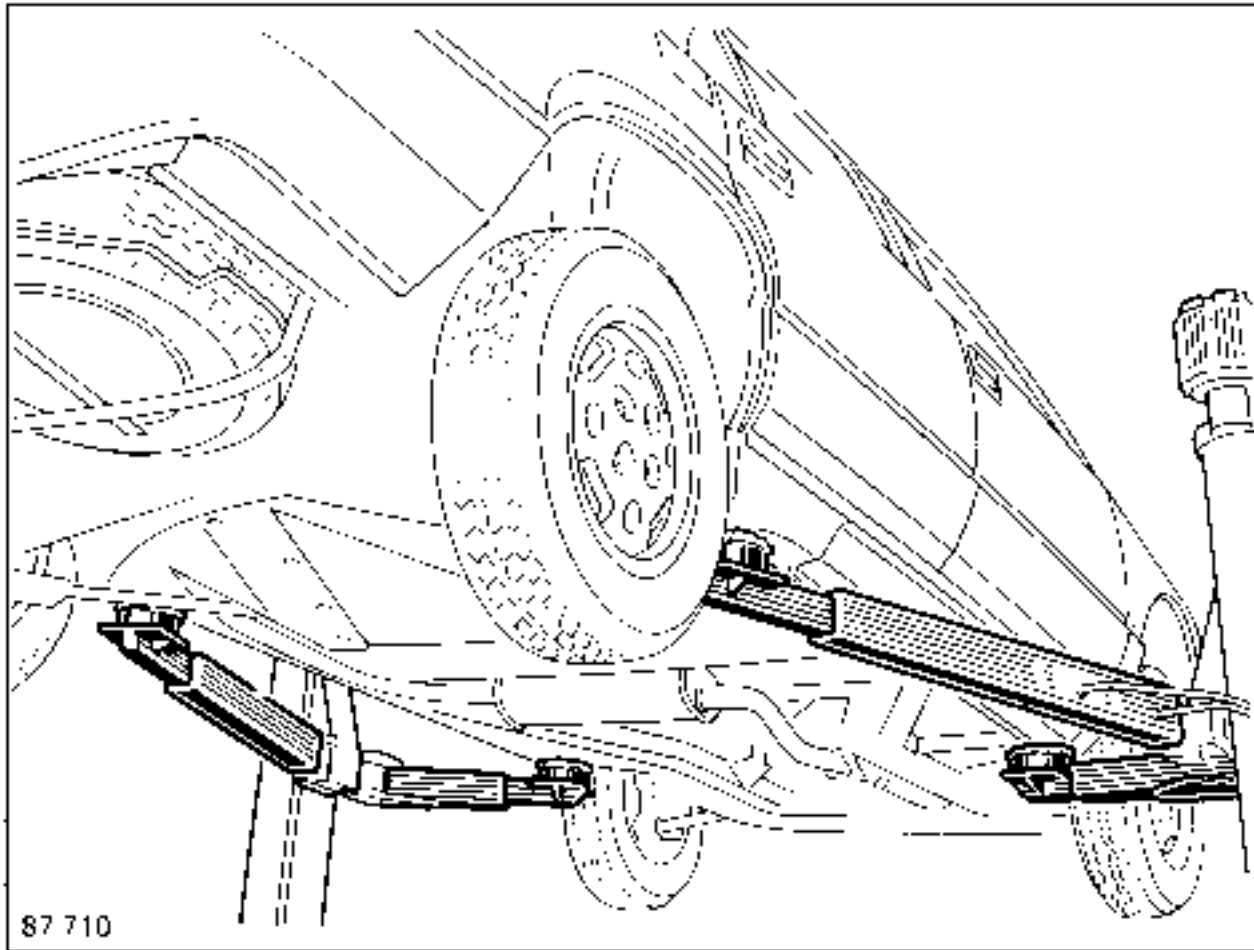
STANDS

To place the vehicle on stands, these must be placed under the stiffened sections provided for raising the vehicle using the car jack.

Lift the vehicle at each side to position the stands at the rear.

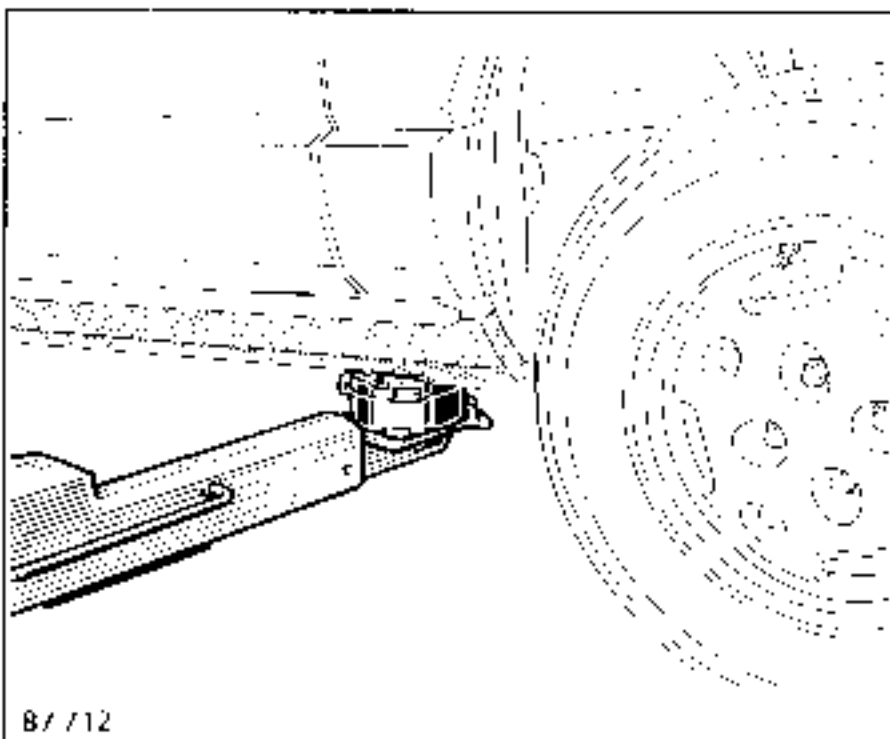
FOR YOUR SAFETY

Units **MUST NOT** be dismantled when a 2-column lift is in use which takes the weight under the body, because of the alteration in balance and to make sure that the vehicle jacking points remain firmly on the lift pads.

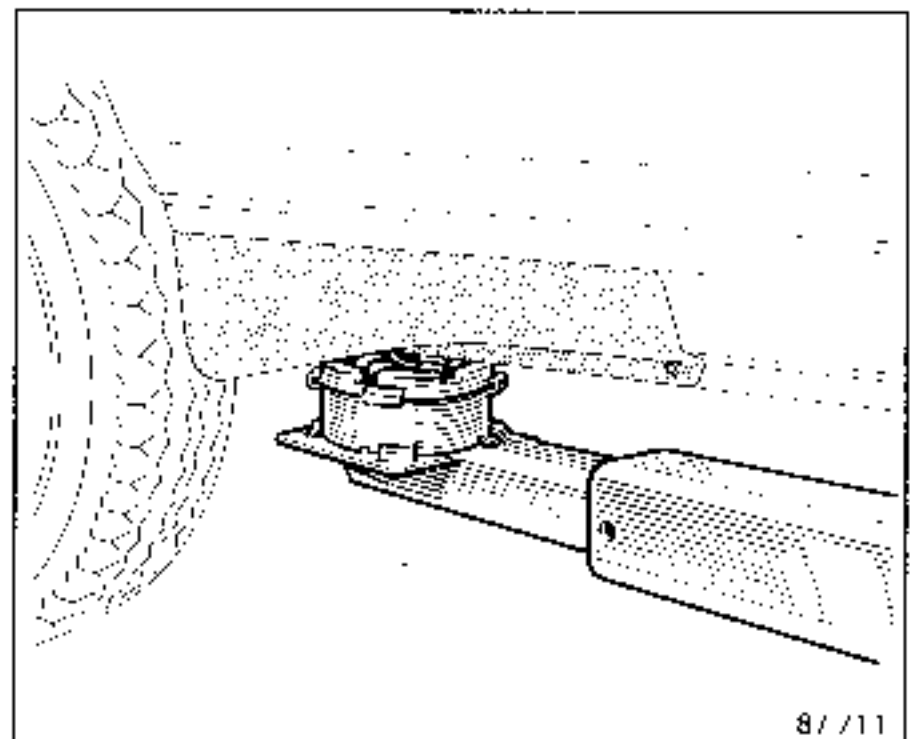


Position the lifting pads under the body flange in line with the car jack supports.

AVANT

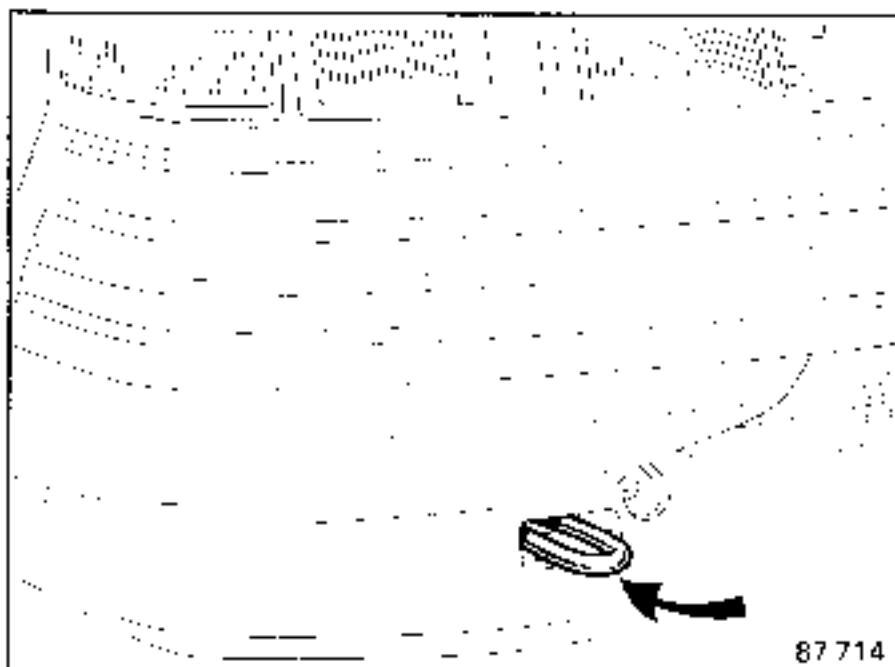
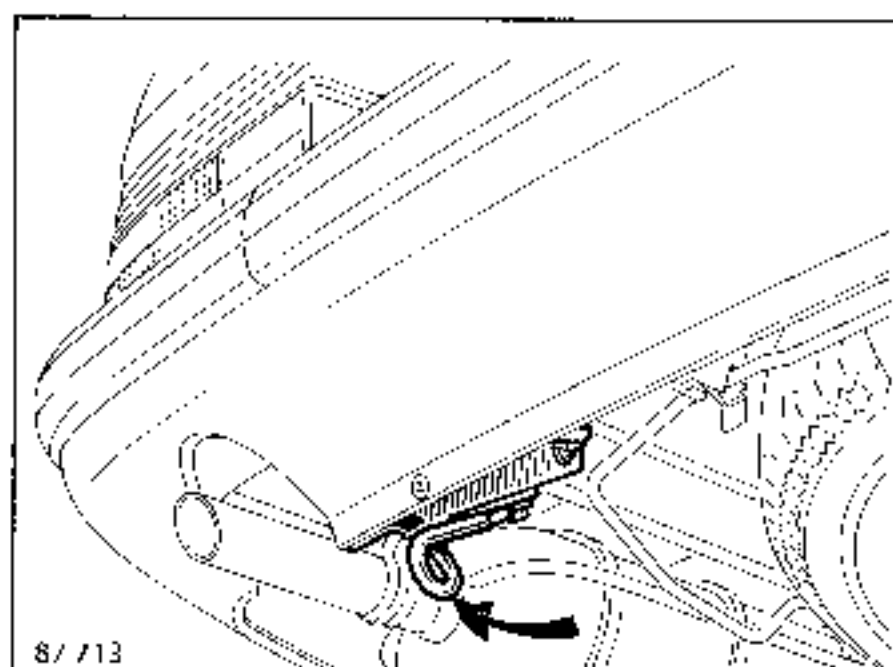


ARRIERE



NEVER USE THE DRIVESHAFTS AS ATTACHMENT POINTS

The towing points are to be used only for road towing and must never be used for pulling the vehicle out of a ditch or similar breakdown operations or for directly or indirectly lifting the vehicle.

FRONT**REAR****TOWING**
Automatic transmission**DRIVING**

Since the automatic transmission is lubricated under pressure, lubrication is only guaranteed when the engine is running.

Consequently, the following instructions must be observed to avoid causing serious damage to the transmission:

- never drive with the ignition switched off (for example, downhill); we cannot overemphasise how dangerous this practice is;
- never push the vehicle (for example, to reach a petrol station) without following the instructions contained in the section on "Towing".

Moreover, the wheels only drive the engine when the engine is running. It is therefore impossible to start the engine of a vehicle with automatic transmission by pushing the vehicle.

Similarly, the wheels must not be dynamically balanced while fitted to the vehicle.

TOWING

The front of the car must be raised; however, if this is impossible, towing can exceptionally take place with the wheels on the ground, under the following conditions:

MJ automatic transmissions

1. Add two extra litres of oil (ELF Renaultmatic D2 or Mobil ATF 220).
2. Do not tow the vehicle at speeds over 18 mph (30 km/h) or over a distance of more than 30 miles (50 km) (lever in N position).

Do not forget to remove the excess oil afterwards.

AR4 automatic transmissions

Do not tow the vehicle at speeds over 25 mph (40 km/h) or over a distance of more than 16 miles (25 km).

Units	Capacity in litres	Grade	Special features
Petrol engines (oil)	When changing	EEC	
			5.7
			6
			5
			5
			7.5
			5
			5
			5
			(plus 0.5 litres for the oil filter)
Diesel engine (oil)	When changing	Non EEC	
			5
			5
			5
			5
			5
			5
			5
			5
			(plus 0.5 litres for the oil filter)
Gearbox	When changing	EEC	
			4.8
			5.5(2)
			(plus 0.5 litres for the oil filter)
			4.8
			5.5(2)
			(plus 0.5 litres for the oil filter)
			4.8
			5.5(2)
			(plus 0.5 litres for the oil filter)
Gearbox	When changing	Non EEC	
			4.8
			5.5(2)
			(plus 0.5 litres for the oil filter)
			4.8
			5.5(2)
			(plus 0.5 litres for the oil filter)
			4.8
			5.5(2)
			(plus 0.5 litres for the oil filter)
UN1 1st assembly	3.4	All countries: Tranself TRX 80W	
UN1 2nd assembly	3		
NG1 NG3	2.2		
MJ3	6	Gearbox: ELF RenaultMatic D2 or Mobil ATF 220	
AR4	5.7	Gearbox: ELF RenaultMatic D2 or Mobil ATF 220	Differential: ELF Tranself TRX80 W 140

(1) The use of 10 W 40 mineral-based oils which are not CCMC-G3 is not recommended.

(2) With stiffener base.

Units	Capacity in litres	Grade	Special features
Brake circuit	Normal: 0.7 ABS: 1	SAE J 1703 and DOT 3 or DOT 4	Brake fluids must be approved by our Design Office
Fuel tank	67 or 72	See maintenance instructions	
Power- assisted steering	Built-in reservoir 0.7 Separate reservoir 1.1	ELF RenaultMatic D2 or Mobil ATF 220	

Cooling system Engines	Capacity in litres depending on version	Grade/Special features
J6R J7R J7R 12 V J7T J8S Z7U Z7V Z7W	7.5 7.8 7.1 8 7.5 9.7 9.5 9.5	Glacéol AL (type C). Add only demineralised water. Protection to -23 °C in temperate, hot and cold climates Protection to - 40 °C in extremely cold climates.

LIST OF PRODUCTS RECOMMENDED FOR MECHANICAL REPAIRS

DESCRIPTION	PACKAGING	PART NO.
GREASES		
MOLYKOTE "BR2" for shaft throats, clutch fork thrust faces, lower suspension arm bearings, torsion bar splines, steering gear housing and transmission splines.	1 kg tin	77 01 421 145
"MOLYKOTE 33 Médium" Anti-roll bar collars.	100 g tube	77 01 028 179
"MOLYKOTE M55 plus" Synchromesh ring.		77 01 421 079
"MOLYKOTE CU 7439" (High-temperature grease) Turbocharger, etc.	1 kg tin	77 01 417 627
"ELF MULTI" for lip-type oil seals, transmission stub axle splines, stud and wheel bolt threads.	1 kg tin	77 01 022 166
"MOBIL CVJ" 825 Black star or MOBIL EXF57C for transmission gaskets.	180 g sachet	77 01 366 100
GREASE N° 20 for planet ring splines, fork shafts, thrust bearing guide, clutch shaft fork pad.	1 g sachet	77 01 032 832

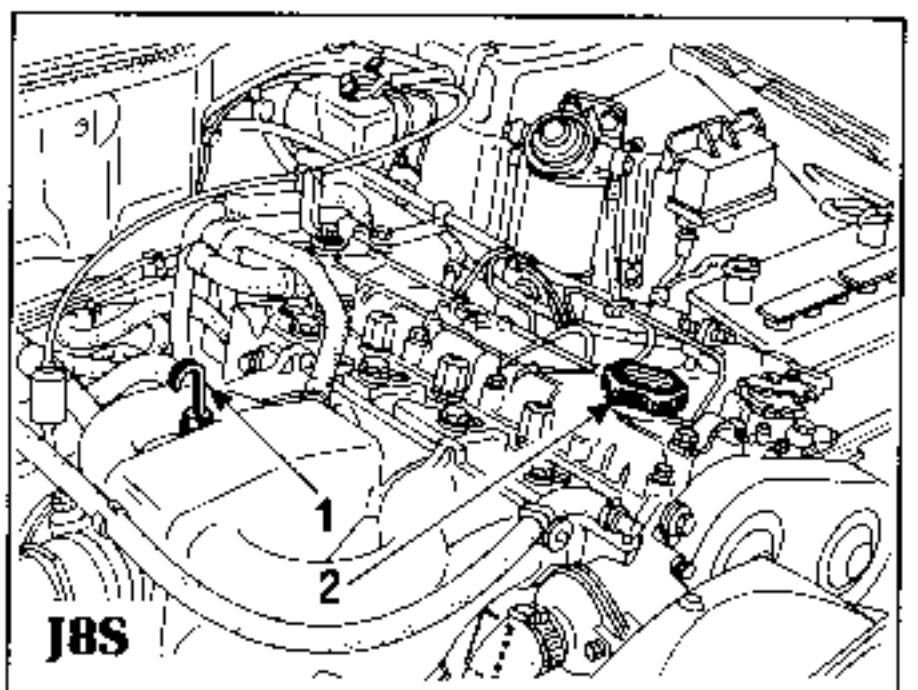
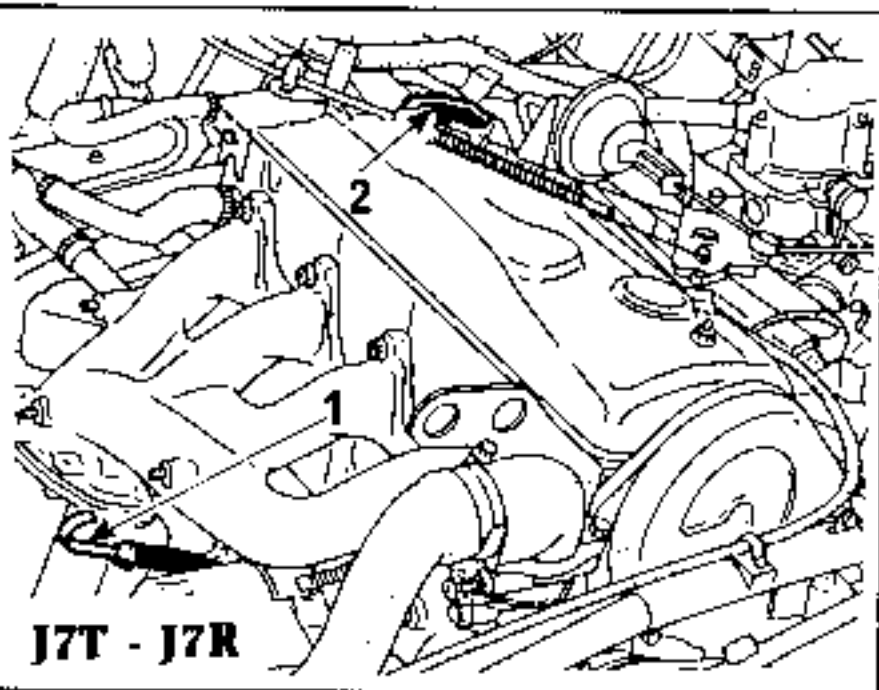
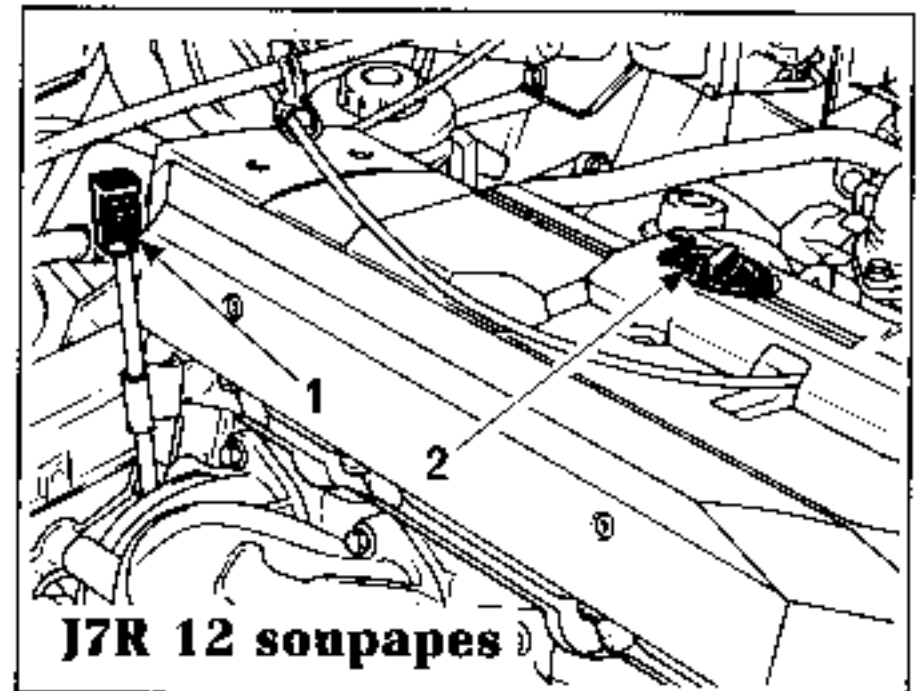
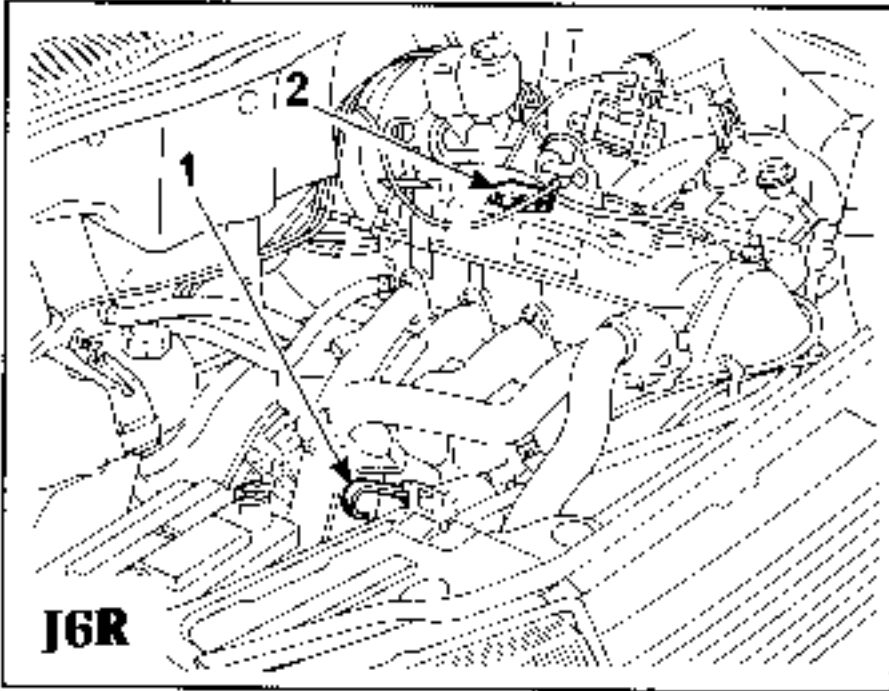
MECHANICAL SEALERS		
Perfect-seal "LOWAC" fluid jointing paste.	100 g tube	77 01 417 404
Mastic for exhaust pipe connection sealing.	1.5 kg tin	77 01 421 161
"CAF 4/60 THIXO" for transmission pins.	100 g tube	77 01 404 452
HARDENER KIT "CAF 4/60 THIXO" for side seals of main bearing housings.	Kit	77 01 421 080
AUTO blue gasket sealing paste	100 ml tube	77 01 396 227
	45 g tube	77 01 397 027
LOCTITE 518 for gearbox housing sealing.	24 ml syringe	77 01 421 162
DOSE GURIT Reservoir dipstick sealing.	60 cm ³ tube	77 01 421 164

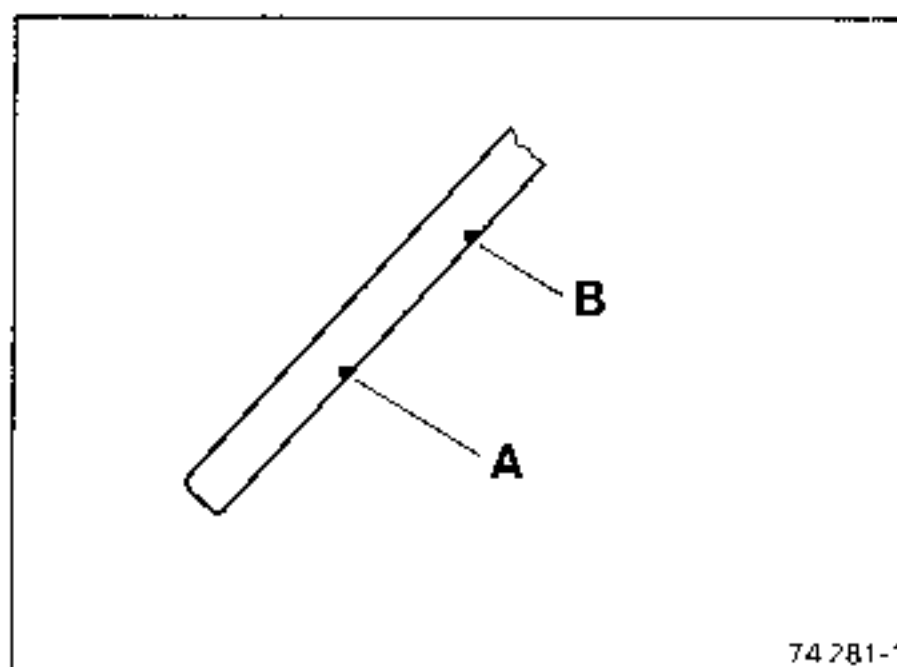
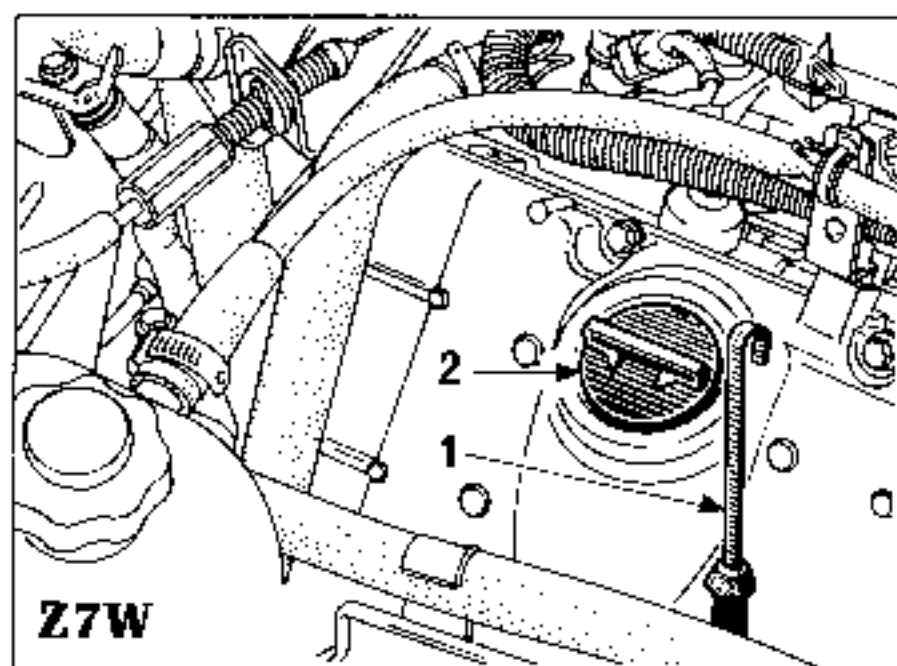
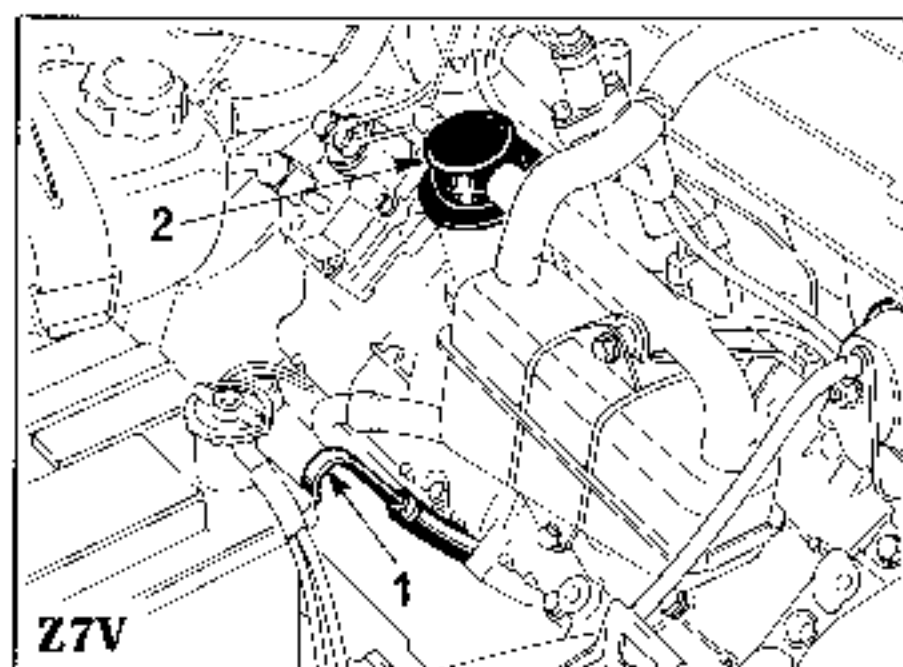
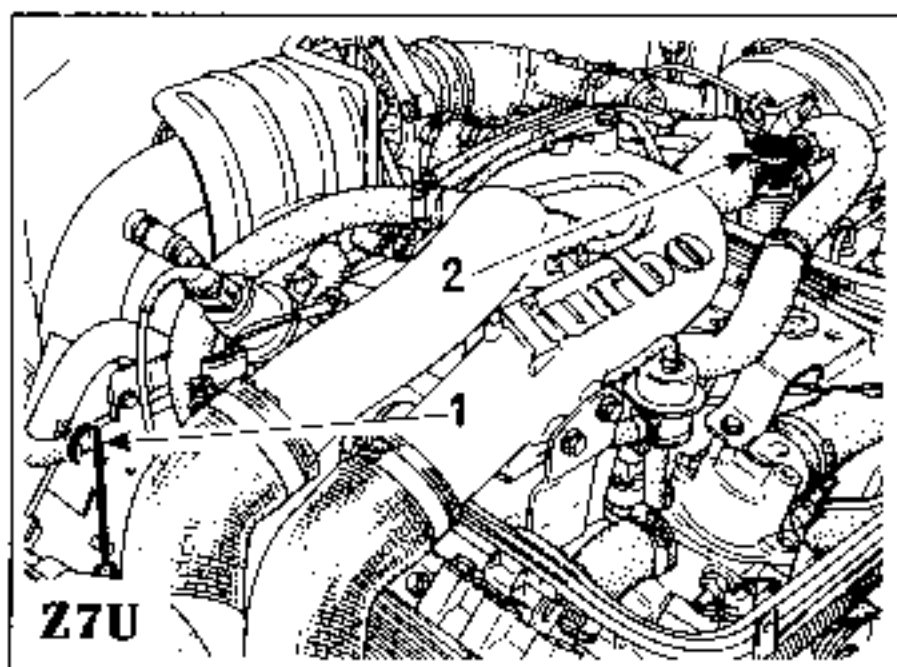
DESCRIPTION	PACKAGING	PART NO.
ADHESIVES		
"LOCTITE - FRENETANCH" prevents bolts unscrewing and enables removal.	24 cc bottle	77 01 394 070
"LOCTITE - FRENBLOC" for securing bolts.	24 cc bottle	77 01 394 071
"LOCTITE SCEBLOC" for bonding bearings.	24 cc bottle	77 01 394 072
"LOCTITE AUTOFORM" for bonding engine flywheels to crankshaft.	50 cc bottle	77 01 400 309
"LOCTITE 275" for bonding steering tie-rods.	50 ml bottle	77 01 418 252

CLEANSING AGENTS/LUBRICANTS		
"SAFCA" lubricant special for door lock cylinders.	20 g aerosol	77 01 400 097
"ELECTRONEX" (SEMME) release agent, lubricant.	250 g aerosol	77 01 403 517
"AGIR 40" release agent, lubricant.	140 ml aerosol	77 01 421 140
RAVITOL PLUS	2 l	77 01 417 424
	10 l	77 01 417 425
	30 l	77 01 417 426
Carburettor cleansing agent	250 ml can	77 01 393 112
	300 ml aerosol	77 01 393 111
Injector cleansing agent	500 ml can	77 01 421 205
	420 ml aerosol	77 01 393 109
Highly-concentrated release agent.	385 ml aerosol	77 01 405 952
"DECAPJOINT" (FRAMET) for cleaning aluminium cylinder head gasket faces.		
VARNISH		
"CIRCUIT PLUS" Varnish for repairing heated rear window elements.	2 g bottle	77 01 421 135
TYRES		
"TIP TOP" product for repairing Tubeless tyres.	Combi A kit	77 01 417 243

BRAKES		
Brake fluid	0.5 l	77 01 394 499
	1 l bottle	77 01 422 312
AIR CONDITIONING		
Oil for compressor	250 ml	77 01 417 655

FILLING: Cap (2)





74281-

DIPSTICK (1)

A - Minimum level

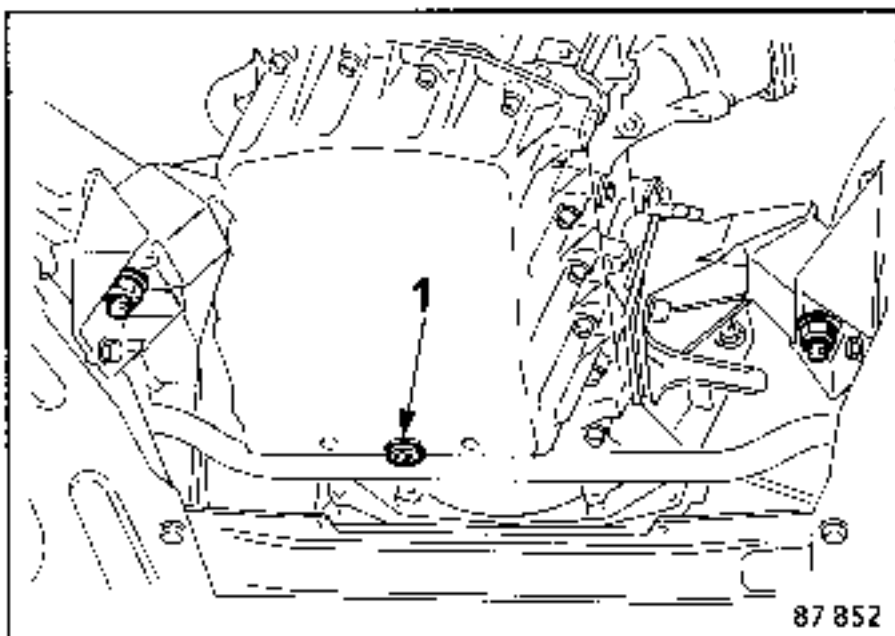
B - Maximum level

ESSENTIAL SPECIAL TOOLING

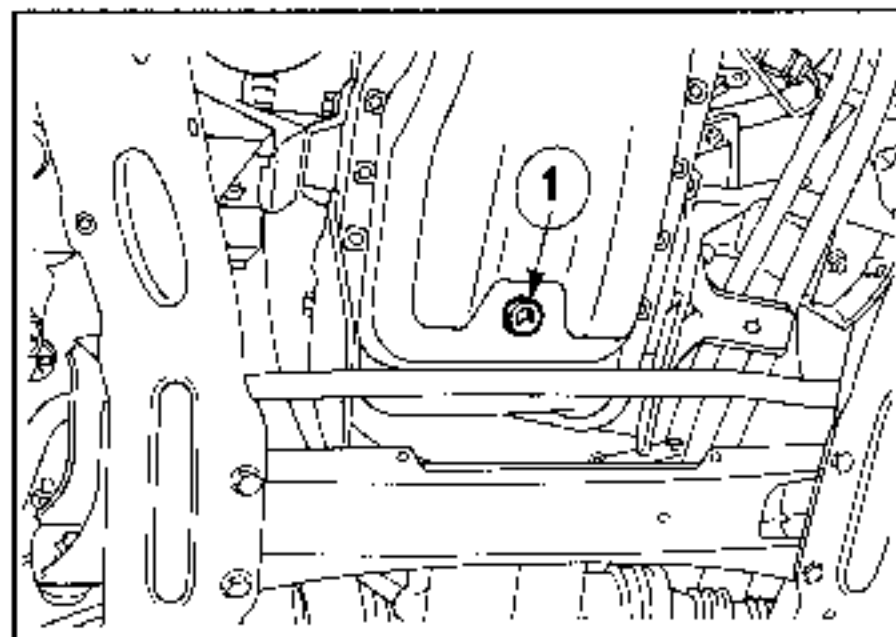
Drain plug wrench

DRAINING (1)

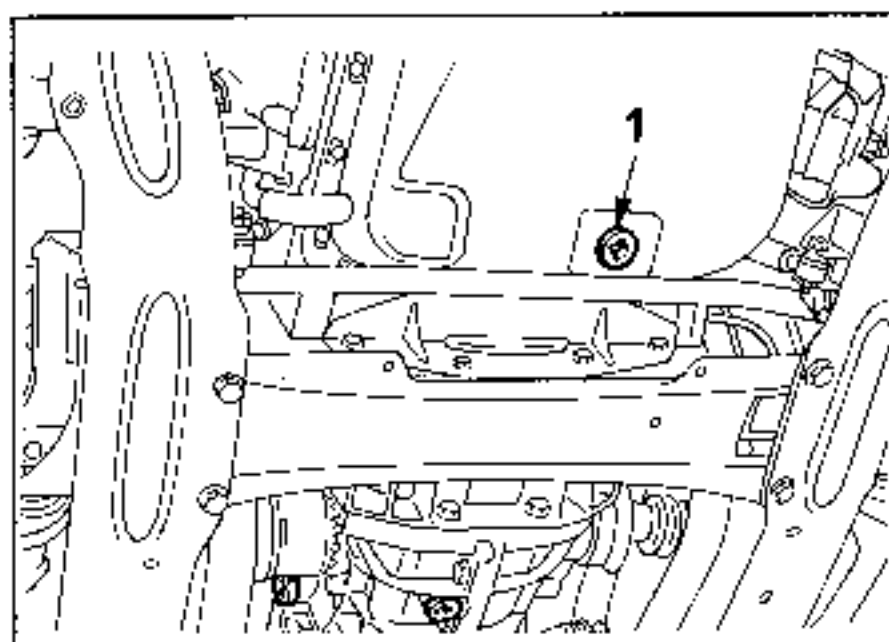
J engine, aluminium sump



J engine, sheet metal sump



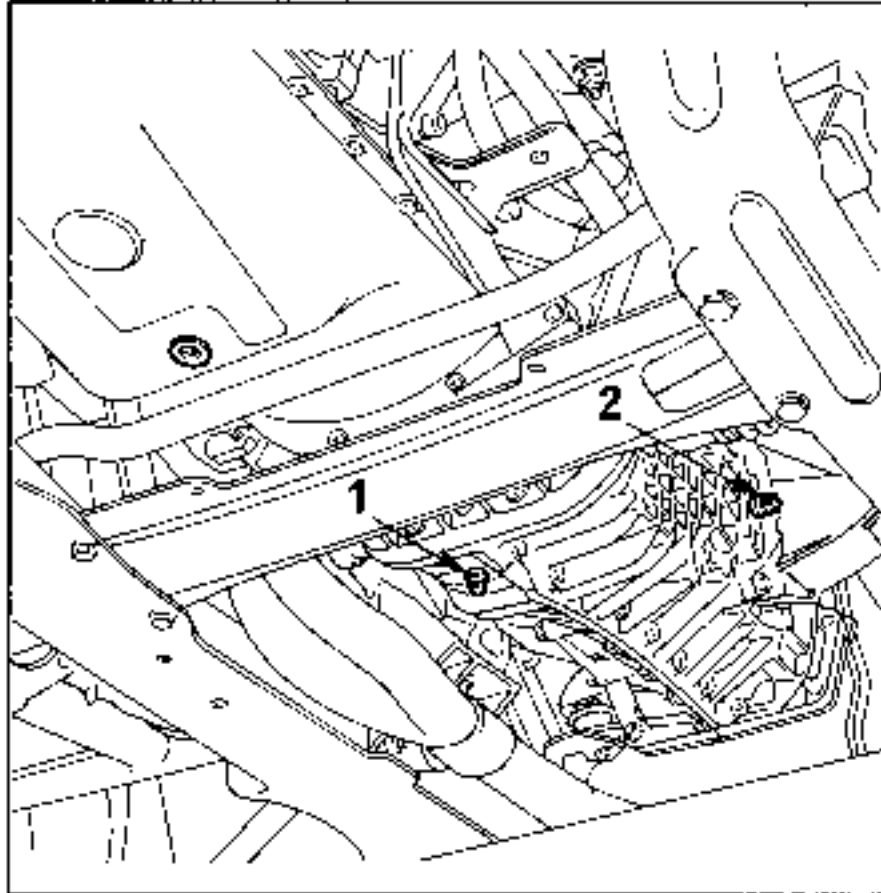
V6 engines



ESSENTIAL SPECIAL TOOLING

B.Vi. 1191	3/8" drive socket for removing and refitting filter and drain plugs.
------------	--

DRAINING: Plug (1)



FILLING: Cap (2)

Fill the gearbox until the oil is flush with the bottom of the hole.

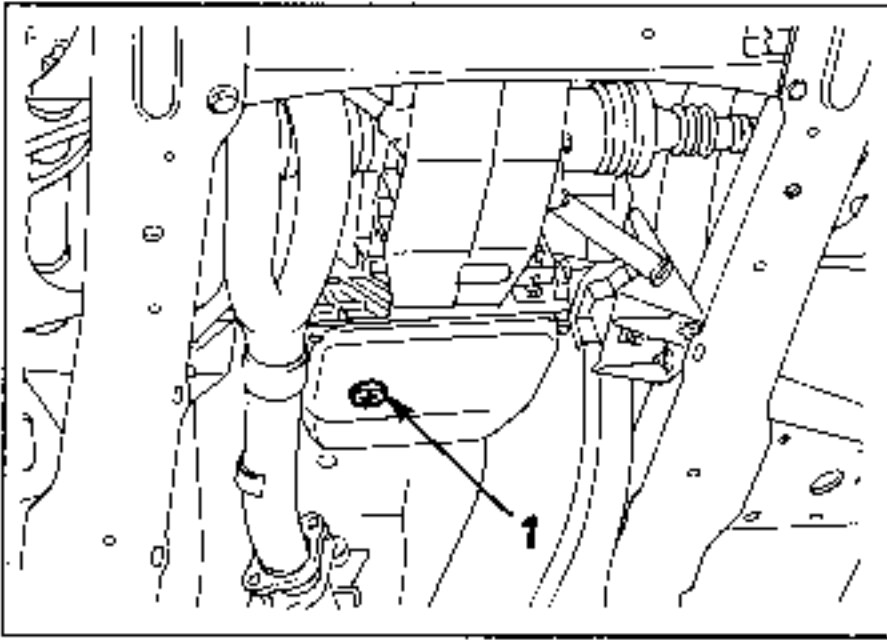
ESSENTIAL SPECIAL TOOLING

Drain plug wrench

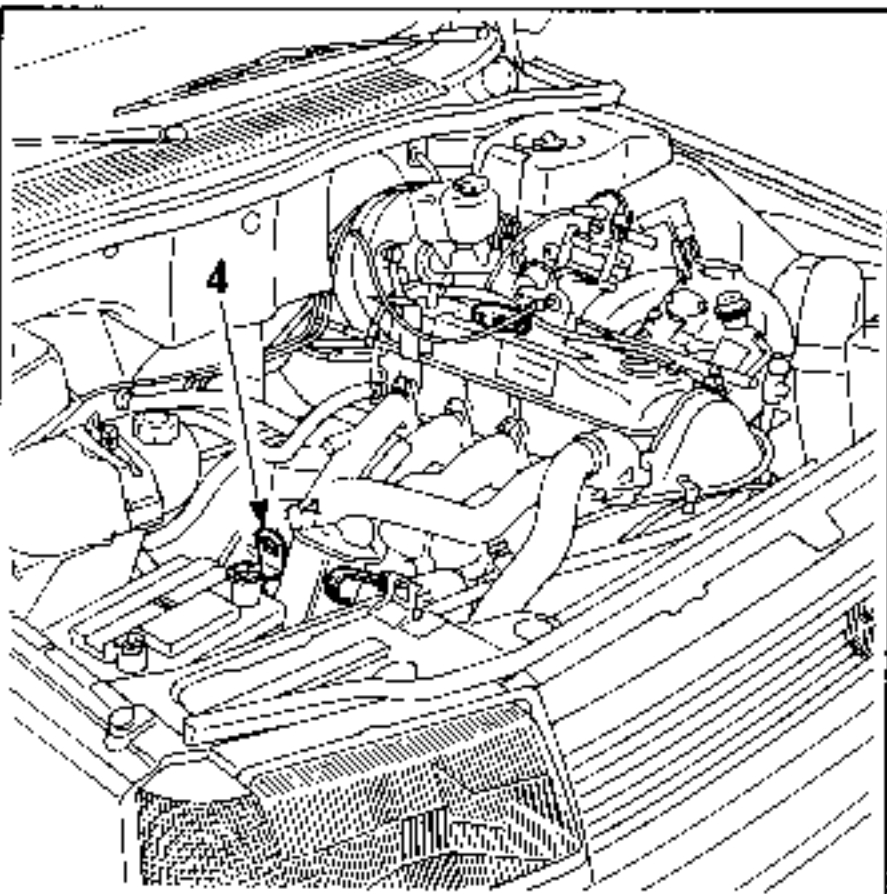
LEVEL DRAINING

MJ automatic transmission

Cap (1)

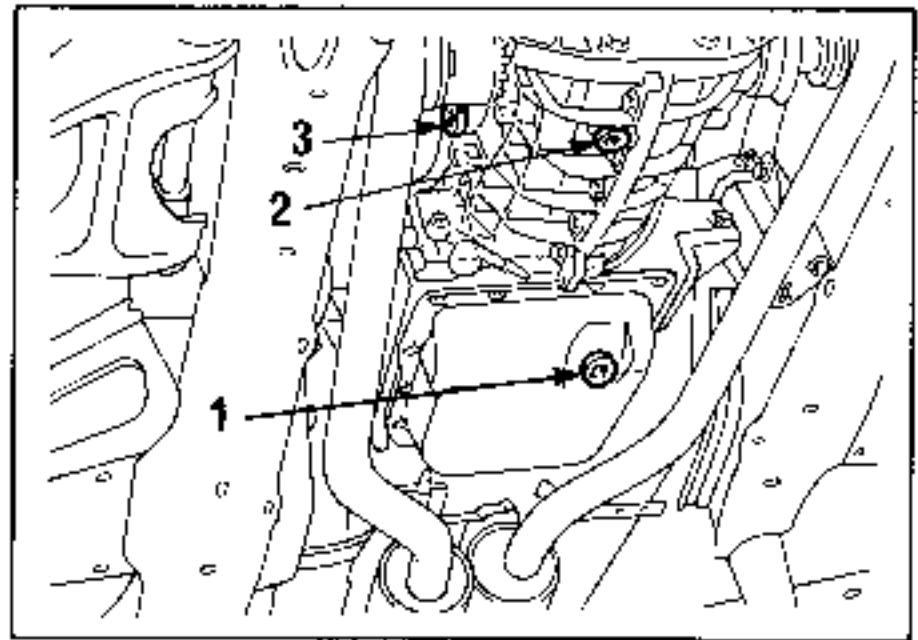


LEVEL: Dipstick (4)

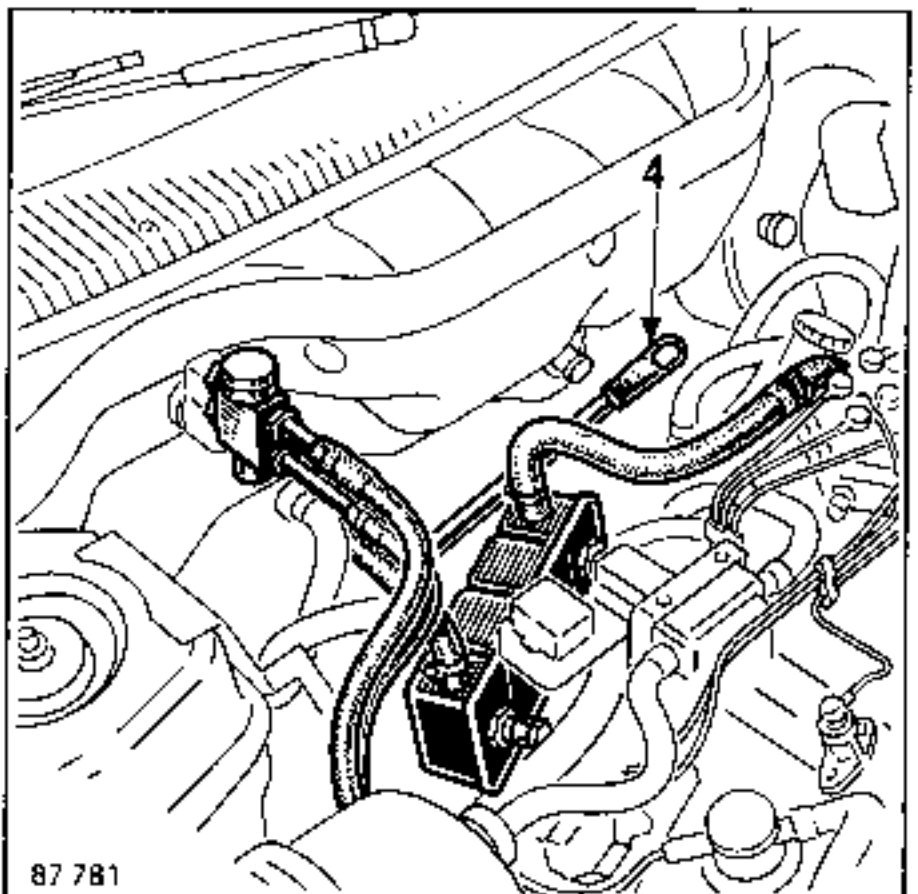


4141 automatic transmission

Caps (1) and (2)



LEVEL: Cap (3) and dipstick (4)



CHECKING THE LEVEL

The vehicle must be empty.

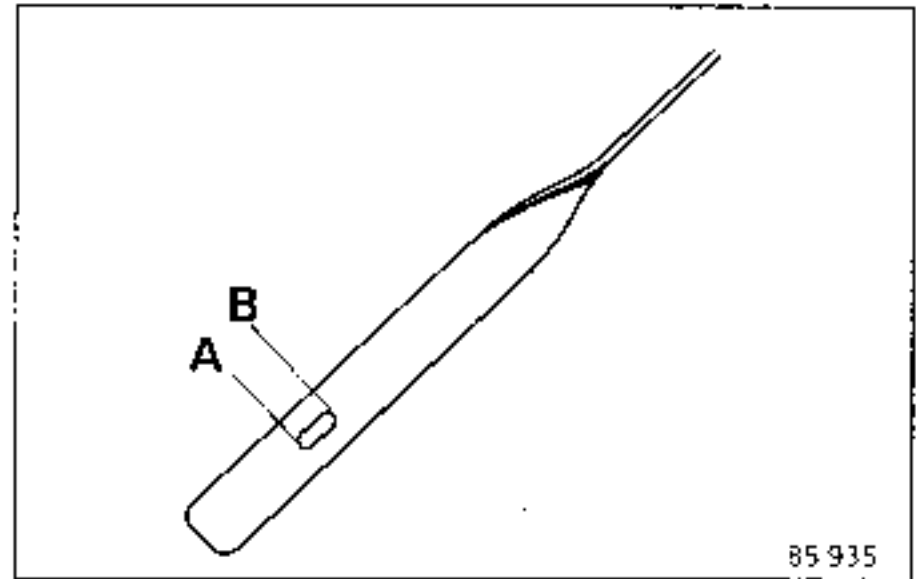
The oil is at ambient temperature (engine cold).

Place the vehicle on a horizontal, level surface.

Set the gear selector lever to "PARK" (P).

Start the engine and wait one or two minutes until the converter and the cooler have filled.

Pull out the dipstick while the engine is running.



A = min. cold
B = max. cold

DRAINING AR4 AUTOMATIC TRANSMISSION

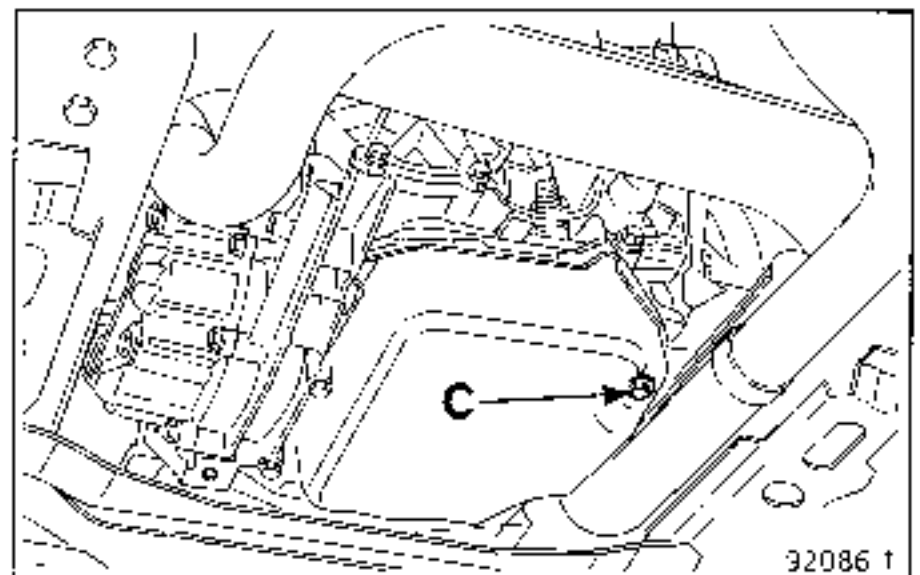
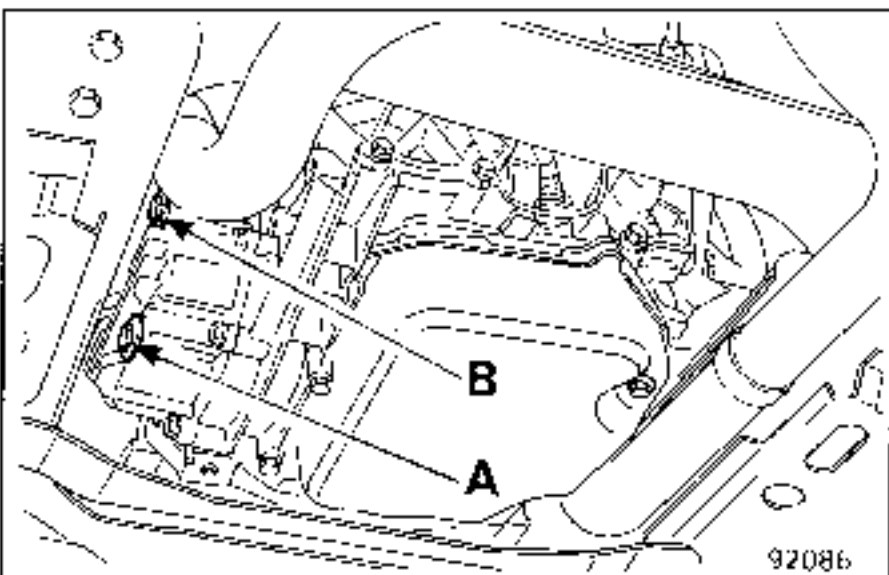
DIFFERENTIAL

The differential is drained using plug (A). Plug (B) is used for filling and checking the level, after filling with 0.80 l of oil (see section entitled "Lubricants").

GEARBOX

The gearbox housing has no drain plug.

Draining is carried out by removing the refill plug (C) (some of the oil runs out) and removing the transmission casing sump.



FILLING

See section



CHECKING THE LEVEL

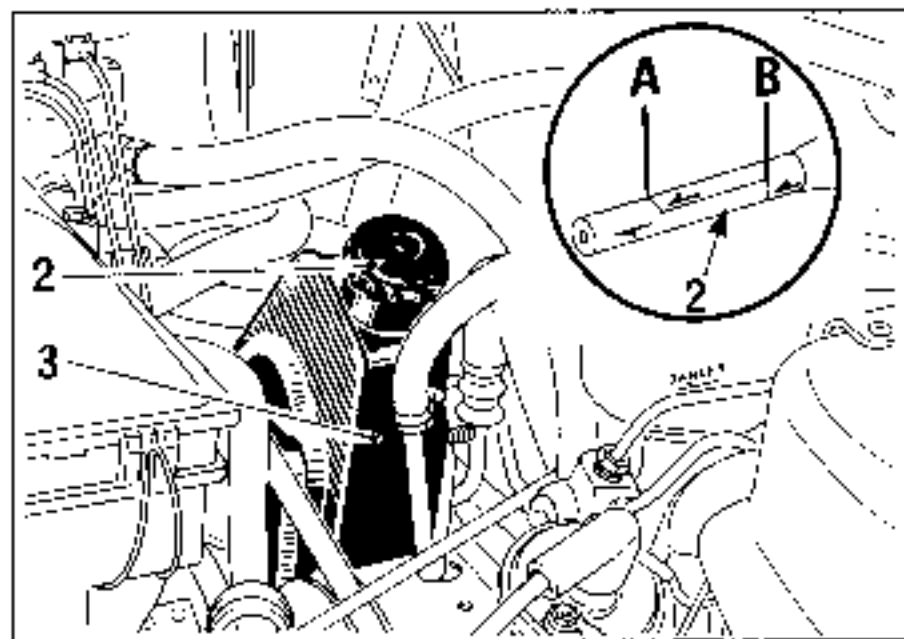
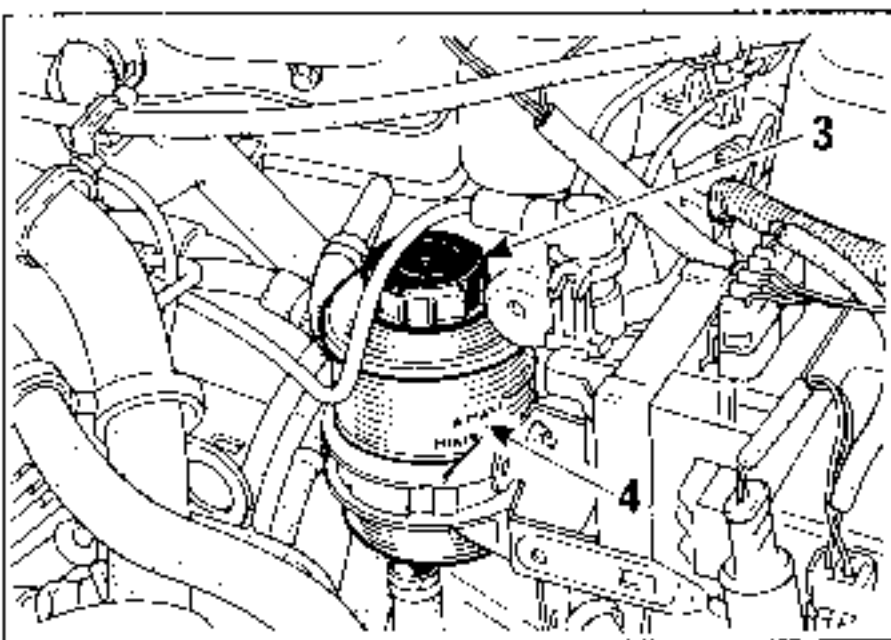
POWER-ASSISTED STEERING 3 PUMP LEVEL*

For topping up or filling with oil, use: Elf Renaultmatic D2, or Mobil ATF 220.

For the level to be correct, it must be:

- between A and B on dipstick 2.
- or
- visible between MIN and MAX levels on reservoir 4.

* Depending on version.



Methods Reference	Part no.	Description
Mot. 11	00 01 072 500	Crankshaft spigot bush extractor.
Mot. 213-01	00 00 021 301	Fuel pump pressure checking gauge - 0 - 5 bar.
Mot. 251-01	00 00 025 101	Clock gauge support. Used with Mot. 252-01.
Mot. 252-01	00 00 025 201	Thrust plate for checking liner protrusion Used with Mot. 251-01.
Mot. 259-01	00 00 025 901	Mandrel for inserting main bearing oil seal Oil seal bore Ø 80 mm.
Mot. 330-01	00 00 033 001	Cylinder head support.
Mot. 336	00 00 033 600	Wrench for PC hose clips (large version).
Mot. 400	00 00 040 000	Wrench for PC hose clips (small version).
Mot. 401	00 00 040 100	Equipment for refilling cooling system under positive head (vehicles with expansion bottle).
Mot. 445	00 00 044 500	Tool for removing oil filter.
Mot. 452	00 00 045 200	Oil pressure gauge wrench (22 mm across flats).
Mot. 453-01	00 00 045 301	Set of 2 hose clamps.
Mot. 475	00 00 047 500	Offset ratchet for tightening cylinder head bolts.

Methods Reference	Part No.	Description
Mot. 503	00 00 050 300	Wrench for carburettor base flange units (12 mm across flats)
Mot. 521-01	00 00 052 101	Liner clamp.
Mot. 574-13	00 00 057 413	Tooling kit for replacing gudgeon pins.
Mot. 574-14	00 00 057 414	Gudgeon pin insertion guide and thrust ring, for pistons without skirts.
Mot. 582	00 00 058 200	Flywheel locking tool.
Mot. 587	00 00 058 700	Oil seal extractor.
Mot. 588	00 00 058 800	Liner clamps.
Mot. 589	00 00 058 900	Camshaft sprocket supports.
Mot. 591-02	00 00 059 102	Magnetised flexible arm for cylinder head angular tightening wrench.
Mot. 591-04	00 00 059 104	Angular wrench for tightening cylinder head ($\frac{1}{2}$ " drive).
Mot. 647	00 00 064 700	Rocker arm clearance adjustment wrench.
Mot. 658	00 00 065 800	Crankshaft pulley oil seal insertion tool.
Mot. 720	00 00 072 000	Cylinder head locating tool.
Mot. 788	00 00 078 800	Crankshaft oil seal insertion tool (flywheel end).

Methods Reference	Part No.	Description
Mot. 789	00 00 078 900	Crankshaft oil seal insertion tool (timing cover end).
Mot. 790	00 00 079 000	Oil seal insertion and intermediate shaft bearing locating tool.
Mot. 791	00 00 079 100	Tool for replacing camshaft oil seal (timing cover end).
Mot. 792-01	00 00 079 201	Engine support plate for Desvil stand.
Mot. 799	00 00 079 900	Sprocket locking tool for toothed belt timing gear.
Mot. 828-01	00 00 082 801	Flexible screwdriver for carburettor bolt with tamper-proof cap.
Mot. 836-05	00 00 083 605	Boxed oil pressure testing kit
Mot. 836-06	00 00 083 606	Set of adaptors for kit Mot. 836-05.
Mot. 843	00 00 084 300	Boxed set of tooling for repair and checking of K-Jetronic electronic injection. All types (0.6 pressure switch).
Mot. 844	00 00 084 400	Exhaust gas sampling equipment for analysing CO-CO ₂ .
Mot. 844-01	00 00 084 401	Spare exhaust gas bleeder for analysing CO- CO ₂ *
Mot. 845	00 00 084 500	Set of 2 x 3 test tubes for checking injector deliveries. PETROL injection.

Methods Reference	Part No.	Description
Mot. 853	00 00 085 300	Liner base seal compressing tool.
Mot. 854	00 00 085 400	Injection pump sprocket locking tool.
Mot. 855	00 00 085 500	Intermediate gear locking strap.
Mot. 856	00 00 085 600	Clock gauge support. BOSCH injection pump timing.
Mot. 861	00 00 086 100	TDC rod.
Mot. 867	00 00 086 700	Fuel circuit pressure testing kit.
Mot. 869	00 00 086 900	Injector holder fixing nut tightening socket (used with Ele. 721)
Mot. 871	00 00 087 100	Adaptor for compression testing.
Mot. 875	00 00 087 500	Mot. 843 box adaptor kit.
Mot. 877	00 00 087 700	ROTO-DIESEL pump timing tooling
Mot. 909-01	00 00 090 901	Injection pump fixing nut wrench.
Mot. 965	00 00 096 500	Tool for mounting camshaft oil seal .
Mot. 997	00 00 099 700	Injector holder removing/refitting wrench.

Methods Reference	Part No.	Description
Mot. 1014	00 00 101 400	Turbo pressure setting and checking set and engine leak detector.
Mot. 1053	00 00 105 300	Injector pump pinion extractor.
Mot. 1054	00 00 105 400	TDC rod.
Mot. 1063	00 00 106 300	Articulated wrench for removing/refitting engine lower housing fixing bolts.
Mot. 1079	00 00 107 900	Complete boxed kit for timing new ROTO-DIESEL pumps with access via cover.
Mot. 1079-01	00 00 107 901	Support bracket and gauge for timing new ROTO-DIESEL pumps. Used with 30 mm stroke clock gauge Mot. 1079-02.
Mot. 1091	00 00 109 100	V6 engine support for fitting to DESVIL 126 stand.
Mot. 1130	00 00 113 000	Tool for extracting tamper-proof caps from carburettors.
Mot. 1135-01	00 00 113 501	Timing belt tensioner.
Mot. 1155	00 00 115 500	Long-type socket wrench for removing-refitting acceleration sensor.
Mot. 1156	00 00 115 600	Compression take-off endpiece (dummy injector holder for F8Q, J85 +).
Mot. 1157	00 00 115 700	Tool for fitting camshaft seal at timing gear end.

Methods Reference	Part No.	Description
Mot. 1160	00 00 116 000	Accelerator cable endpiece crimping pliers (replacement part).
Mot. 1169	00 00 116 900	Rocker arm retention tool.
Mot. 1172	00 00 117 200	Tool for fitting crankshaft seal, flywheel end.
Mot. 1174	00 00 117 400	Tool for fitting rear crankshaft bearing seal, flywheel end.

Electrical equipment

Ele. 15	00 01 323 300	Test light.
Ele. 22-01	00 01 331 001	Shaft protection endpiece. (Bearing extraction)
Ele. 346-04	00 00 034 604	Belt tension checking tool. Assembly Ele. 346-02 + Ele. 346-03.
Ele. 556	00 00 055 600	Angle wrench for distributor fixing nut.
Ele. 721	00 00 072 100	Limited torque spark plug wrench (R 5 Turbo) B.
Ele. 721-01	00 00 072 101	Spark plug spanner extension. Addition to Ele. 721.
Ele. 879	00 00 087 900	Conical seat spark plug extractor.
Ele. 1023	00 00 102 300	M.T.I.S. electrical connector pliers.
Ele. 1023-01	00 00 102 300	Replacement endpiece for Ele. 1023.

Methods Reference	Part No.	Description
Ele. 1044	00 00 104 400	PACKARD connector clip removal tool.
Ele. 1068-01	00 00 106 801	Connector repair kit.
Ele. 1069	00 00 06 900	12 and 24 V battery tester.
Ele. 1070	00 00 107 000	Variable 25 to 50 W soldering iron. (Power supply 220 V)
Ele. 1071	00 00 107 100	Ø 55 mm movable mirror, movable handle, flexible, chrome-plated body.
Ele. 1086	00 00 108 600	Universal joint spark plug wrench with 9 mm drive. Fits to Ele. 721.

Clutch

Emb. 666	00 00 066 600	Clutch disk locating mandrel, Ø 17 and 24.35 mm.
Emb. 880	00 00 088 000	Clutch fork pin extractor.

Gearbox

Bvi. 22-01	00 01 216 401	Extractor body without shell.
Bvi. 28-01	00 01 227 301	Extractor with interchangeable jaws.
Bvi. 28-02	00 01 244 000	Set of 2 196 mm-long jaws. Replacement for Bvi. 28-01.
Bvi. 28-03	00 01 244 001	Set of 2 146 mm-long jaws. Replacement for Bvi. 28-01.

Methods Reference	Part No.	Description
Bvi. 31-01	00 01 259 401	Set of 3 drifts for inserting Ø 5 mm rollpins.
Bvi. 31-02	00 01 332 600	Replacement drift for Bvi. 31-01.
Bvi. 39	00 01 322 500	Drift for inserting Ø 4 and 10 mm rollpins.
Bvi. 41	00 01 324 800	Shell with 23.5 mm opening for bearing extractor Bvi. 22-01.
Bvi. 47	00 01 331 100	Shell with 28 mm opening for bearing extractor Bvi. 22-01.
Bvi. 48	00 01 330 300	Set of 2 jaws with large tips. (Addition to Bvi. 28-01).
Bvi. 204-01	00 00 020 401	32 mm wrench for secondary shaft nut.
Bvi. 344	00 00 034 400	Drift for Ø 6 mm rollpins.
Bvi. 454-07	00 00 045 407	Replacement harness for Bvi. 454-06 and Bvi. 797.
Bvi. 465	00 00 046 500	Tooling for changing converter seal.
Bvi. 466-06	00 00 046 606	Oil pressure checking gauge (used with Bvi. 466-07).
Bvi. 466-07	00 00 046 607	Boxed set for checking automatic transmission oil pressure. 16 bar pressure gauge.
Bvi. 488	00 00 048 800	Clutch housing oil seal insertion and protection tool.

Methods Reference	Part No.	Description
Bvi. 489-14	00 00 048 914	Tool kit for overhauling automatic transmission clutch and brakes.
Bvi. 489-19	00 00 048 919	Automatic transmission overhaul tooling.
Bvi. 524-01	00 00 052 401	Automatic transmission oil temperature measurement probe.
Bvi. 526	00 00 052 600	Clutch shaft oil seal protection and insertion tool.
Bvi. 606	00 00 060 600	Set of drifts for replacing Ø 6 mm rollpins.
Bvi. 645	00 00 064 500	Castellated wrench for adjusting differential play.
Bvi. 667	00 00 066 700	Wrench for removing-refitting automatic transmission vacuum capsule.
Bvi. 747	00 00 074 700	Selector spring dismantling-reassembly fork.
Bvi. 805	00 00 080 500	Differential nut wrench. Used with Bvi. 645.
Bvi. 807-01	00 00 080 701	Differential nut wrench.
Bvi. 813	00 00 081 300	Differential ring nut oil seal protector (for passing over splines).
Bvi. 858	00 00 085 800	Intermediate harness for automatic transmission test box.
Bvi. 868	00 00 086 800	Cable control locknut wrench.

Methods Reference	Part No.	Description
Bvi. 874	00 00 087 400	Cable control sleeve compressing pliers.
Bvi. 883	00 00 088 300	Differential collar insertion tool.
Bvi. 951	00 00 095 100	Differential ring oil seal insertion tool.
Bvi. 952	00 00 095 200	Feed hub centre punches and F2 piston removing tool.
Bvi. 955	00 00 095 500	Final drive pinion bearing prestress measuring tool.
Bvi. 958	00 00 095 800	Automatic transmission test box.
Bvi. 962	00 00 096 200	Converter seal insertion tool.
Bvi. 1007	00 00 100 700	Set of 2 jaws and protective endpiece for extracting gears. (Used with Bvi. 28-01).
Bvi. 1081	00 00 108 100	Guide for inserting 3-lipped differential output.
Bvi. 1103	00 00 110 300	Harness checking terminal holder and sealed plug simulator.
Bvi. 1104	00 00 110 400	Differential seal fitting tool, left-hand side.
Bvi. 1105	00 00 110 500	Differential seal fitting tool, right-hand side.
Bvi. 1106	00 00 110 600	Rear plug fitting tool.

Methods Reference	Part No.	Description
Bvi. 1107	00 00 110 700	Converter seal fitting tool.
Bvi. 1133	00 00 113 300	Tool for locking gearbox input lever in 1st.
Bvi. 1154	00 00 115 400	Differential seal fitting tool.
Bvi. 1170	00 00 117 000	Primary shaft 5 th gear hub extractor. Replaces Bvi. 1003.
Bvi. 1180	00 00 118 000	Planet wheel locking tool.
Bvi. 1181	00 00 118 100	Input bell-housing extractor.
Bvi. 1182	00 00 118 200	Input bell-housing insertion tool.
Bvi. 1183	00 00 118 300	Castellated wrench for secondary shaft nut.
Bvi. 1184	00 00 118 400	Output flange lip seal insertion tool.
Bvi. 1185	00 00 118 500	Output shaft O-ring insertion tool.
Bvi. 1186	00 00 118 600	Final drive pinion bearing prestress measuring tool. Can be used with torque wrench or Bvi. 955.
Bvi. 1187	00 00 118 700	Tool for fitting bearing cup in input bell- housing.
Bvi. 1188	00 00 118 800	Final drive pinion locking tools.

Methods Reference	Part No.	Description
Bvi. 1191	00 00 119 100	3/8" drive socket for removing and refitting filler and drain plugs.
Bvi. 1195	00 00 119 500	Tool for extracting 1st/2nd speed synchro hub.
Front axle		
Tav. 476	00 00 047 600	Ball joint extractor.
Tav. 537-02	00 00 053 702	Expander for fitting transmission bellows (GE86 coupling).
Tav. 601	00 00 060 100	Tool for extracting driveshaft and hub. Renault 25 - 4-hole hub.
Tav. 603	00 00 060 300	Set of 2 spacer legs for front axle compression retention.
Tav. 731	00 00 073 100	Front anti-roll bar tensioning tool.
Tav. 1034	00 00 103 400	Transmission bellows clip tightening clamp.
Tav. 1050	00 00 105 000	Four and five-hole driveshaft holding tool.
Bvi. 1051	00 00 105 100	ABS braking system sensor target fitting mandrel.

Methods
Reference

Part
No.

Description

Dir. 803

00 00 080 300

Metric pitch union for measuring PAS oil pressure.

Dir. 812-01

00 00 081 201

Wrench for axial ball joint,
Ø 36 and 37 mm.

Dir. 832-01

00 00 083 201

Wrench for axial ball joint,
Ø 41 mm.

Dir. 1083

00 00 108 300

Assembly for refitting PAS pump pulley.
Replaces assembly Dir. 1017.

Rear axle

Tar. 659-02

00 00 065 902

Tooling for removing and refitting rear spring
and rear shock absorber.

Wheels - Hubs

Rou. 15-01

00 01 331 601

Ø 16 mm bore shaft protective end cup.

Rou. 541

00 00 054 100

Clock gauge support for measuring hub
clearance.

Rou. 604-01

00 00 060 401

Hub locking tool.

Rou. 943

00 00 094 300

Hub plug replacing tool.

Methods Reference	Part No.	Description
Sus. 513	00 00 051 300	Shock absorber piston rod locating and insertion tool.
Sus. 578	00 00 057 800	Wrench for shock absorber top flats.
Sus. 1012	00 00 101 200	Tooling for removing and refitting front spring and front shock absorber.

Braking system

Fre. 244-03	00 00 024 403	Pressure gauge for checking brake circuit: 0 to 160 bar.
Fre. 284-06	00 00 028 406	Flexible connection for pressure gauge: Fre. 244-03, Fre. 1085-01.
Fre. 514	00 00 051 400	Tool for dismantling handbrake mechanism on rear caliper. (Vehicles with rear disk brakes.)
Fre. 573-01	00 00 057 301	Handbrake cable pliers.
Fre. 823	00 00 082 300	Brake caliper piston inserting tool. (Vehicles with disk brakes.)
Fre. 826	00 00 082 600	Brake shoe side retaining spring removing tool. (Rear BENDIX brakes.)
Fre. 1085	00 00 108 500	Complete braking system testing kit.
Fre. 1085-01	00 00 108 501	Braking circuit pressure checking gauge (0 to 250 bar) for Fre. 1085.
Fre. 1085-04	00 00 108 504	Steel case for brake pressure gauges.
Fre. 1085-05	00 00 108 505	Addition to Fre. 1085.

Methods Reference	Part No.	Description
Ms. 504-01	00 00 050 401	Steering locking tool.
Ms. 511-01	00 00 051 101	Remote control starter switch.
Ms. 533	00 00 053 300	Manual throttle.
Ms. 554-01	00 00 055 401	Test cap for expansion bottle.
Ms. 554-04	00 00 055 404	Cap for checking cooling circuit and expansion bottle valve. (Addition to Ms. 554-05).
Ms. 554-05	00 00 055 405	Cooling circuit and expansion bottle valve test equipment.
Ms. 580	00 00 058 000	Impact wrench.
Ms. 583	00 00 058 300	Hose clamp.
Ms. 760	00 00 076 000	Ignition circuit testing and tuning instrument.
Ms. 782	00 00 078 200	Fire protection plate, 40 x 20 cm.
Ms. 787	00 00 078 700	Set of gauge rods for carburettor adjustment.
Ms. 815	00 00 081 500	Brake and clutch circuit bleeding equipment.
Ms. 860-01	00 00 086 001	Strobe light kit for Ms. 760 (except diesel engines).
Ms. 872	00 00 087 200	Exhaust pipe expander.

Methods Reference	Part No.	Description
Ms. 881	00 00 088 100	Diesel engine rev. counter kit. (Used with Ms. 760).
Ms. 1005	00 00 100 500	Set of 2 audio unit extractors.
Ms. 1006	00 00 100 600	Service connector for radio unit.
Ms. 1008	00 00 100 800	Mobile head for DESVIL 126 stand. (Used with Mot. 792-01).
Ms. 1019-10	00 00 101. 910	XR 25 test box.
Ms. 1048	00 00 104 800	35-channel terminal holder for checking ABS and injection harnesses.
Ms. 1064	00 00 106 400	Terminal holder for testing instrument panel circuits.