

RENAULT

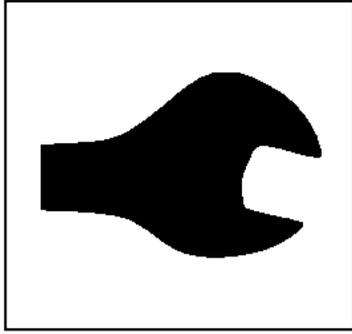
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Special
Tooling

77 11 329 222



Tooling

The special tools being stored in the parts stores, they are procured by the same process as a spare part.

The special tooling 2004 catalogue

ref.: 77 11 329 222

This catalogue supersedes special tooling catalogue

ref.: 77 11 319 062

You will find in this document:

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“The repair methods given by the manufacturer in this document are based on the technical specifications current when it was prepared.

The methods may be modified as a result of changes introduced by the manufacturer in the production of the various component units and accessories from which his vehicles are constructed.”

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CATALOGUE INSTRUCTIONS FOR USE

This catalogue contains all the specialised tools required for diagnostics and repairs on current vehicles of the Renault range.

① ②	③ Gearboxes	Twingo	Kangoo	Clio	Clio II	Megane	Megane II	Laguna	Laguna II	Vel Satis	Espace	Espace IV	Avantime	Traffic II	Master	Master Prop	
Bvi. 22-01 00 01 216 401  <small>17669</small>	Extractor shell without body. JB JC NG HA Gearboxes Inédit			•	•	•	•	•	•							•	•

④

⑤

⑥

⑦

① "Methods" number of tool.

② MPR Renault Reference of tools.

③ Designation and use of tool.

④ Application for type of vehicle indicated.

⑤ Application for type of component indicated.

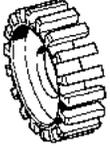
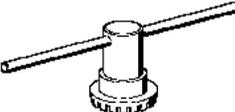
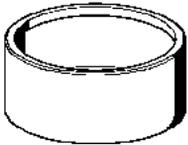
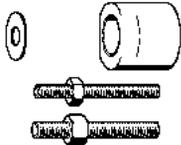
⑥ Name of supplier.

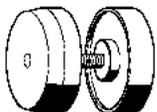
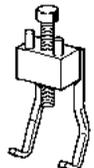
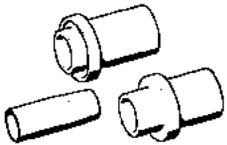
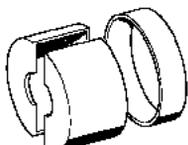
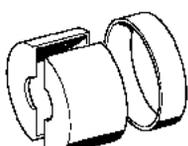
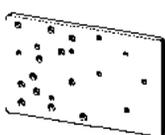
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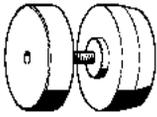
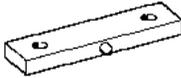
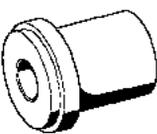
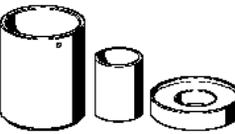
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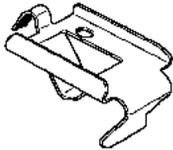
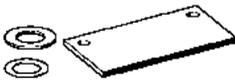
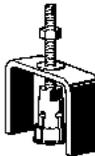
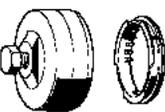
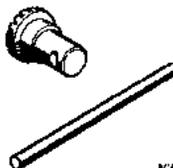
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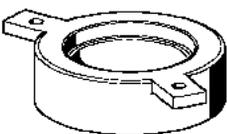
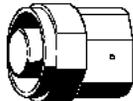
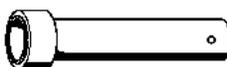
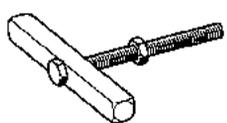
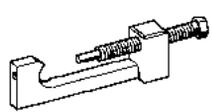
TOOLING

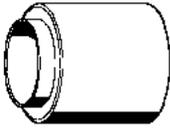
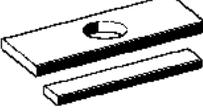
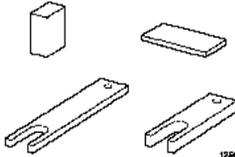
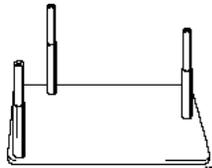
		Gearboxes											Twingo	Kangoo	Clio	Clio II	Mégane	Mégane II	Laguna	Laguna II	Vel Satis	Espace	Espace IV	Avantime	Trafic II	Master	Master Prop
Bvi. 805 00 00 080 500 	Spanner for differential nut. Used with Bvi.645.																										
	NE2 NE3 NE7 NL2 NL5 NL7 NO2 NO5 MJ1 MJ3 ML1 UN1 UN5 UN7 4141 <small>18147</small> Inédit																										
Bvi. 807-01 00 00 080 701 	Spanner for differential nut.																										
	NG0 NG1 NG2 NG3 NG7 NG9 4139 <small>18152</small> Inédit																										
Bvi. 883 00 00 088 300 	Ring for fitting differential collar.																										
	NG0 NG1 NG2 NG3 NG7 NG9 MJ1 MJ3 ML1 <small>18157</small> Inédit																										
Bvi. 902-01 00 00 090 201 	Tool for fitting circlips on input and output shafts.																										
	JB0 JB1 JB2 JB3 JB4 JB5 NE2 NE3 NE7 NL2 NL5 NL7 NO2 NO5 <small>18154</small> Inédit																										
Bvi. 905-02 00 00 090 502 	Tooling for refitting speedometer spindle seal (boxed set).																										
	NG NL NO MJ ML MB HA gearboxes <small>18146</small> Z. International																										
Bvi. 945 00 00 094 500 	Mandrel for fitting sunwheel seal.																										
	JB - JH - MB <small>18150</small> Inédit																										
Bvi. 946 00 00 094 600 	Mandrel for fitting stop ring on sunwheel.																										
	JB - JH - MB <small>18149</small> Inédit																										

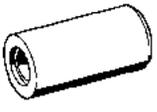
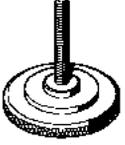
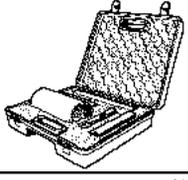
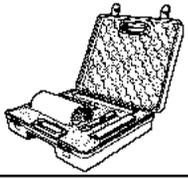
		Gearboxes														
		Twingo	Kangoo	Clio	Clio II	Megane	Megane II	Laguna	Laguna II	Vel Satis	Espace	Espace IV	Avantime	Trafic II	Master	Master Prop
Bvi. 947 00 00 094 700  <small>18056</small>	Mandrel for fitting bearings in mechanism housing.															
	JB0 JB1 JB2 JB3 MB1 MB3	•	•	•	•	•		•	•							•
Bvi. 949 00 00 094 900  <small>18200</small>	Tool for removing/refitting Mecanindus pins for fork shafts.															
	J - NE - NL - NO - ND gearboxes	•	•	•	•	•	•	•	•					•		•
	Z. International															
Bvi. 951 00 00 095 100  <small>18201</small>	Tool for fitting differential seals.															
	MJ1 MJ3 ML1													•		•
	Inedit															
Bvi. 1000 00 00 100 000  <small>17774</small>	Extractor for 5th gear pinion on output shaft.															
	JB JC gearboxes	•	•	•	•	•										•
	Z. International															
Bvi. 1000-01 00 00 100 001  <small>17774</small>	5th gear pinion removal tool.															
	J gearboxes				•		•		•							•
	Z. International															
Bvi. 1016-01 00 00 101 601  <small>18264</small>	Automatic transmission housing support plate. Fits on DESVIL stand.															
	Automatic transmissions AR4 - AD4 - AD8 - DP0				•	•		•	•		•					•
	Desvil															
Bvi. 1016-02 00 00 101 602  <small>17772</small>	Punch for automatic transmission. Fits on DESVIL 128 stand.															
	DP0 automatic transmission				•	•	•	•	•							•
	Desvil															

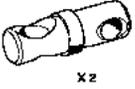
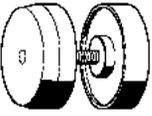
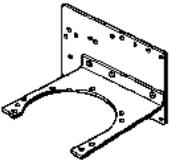
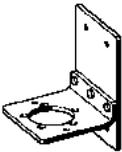
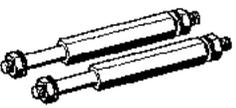
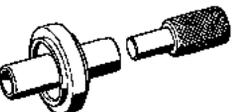
Gearboxes		Twingo	Kangoo	Clio	Clio II	Megane	Megane II	Laguna	Laguna II	Vel Satis	Espace	Espace IV	Avantime	Trafic II	Master	Master Prop	
Bvi. 1030 00 00 103 000 	Mandrel for fitting mechanism housing bearings.			•												•	
	JB4 JB5																
17769	Z. International																
Bvi. 1057 00 00 105 700 	Tool for locking differential rotation.		•	•		•	•	•	•							•	
	JC - JR																
17776	Z. International																
Bvi. 1058 00 00 105 800 	Mandrel for fitting gearbox output seal, differential side.		•	•	•	•	•	•	•	•						•	
	JC - JR gearboxes																
17775	Inedit																
Bvi. 1059 00 00 105 900 	Rings for fitting differential bearings.	•	•	•	•	•	•	•	•	•						•	
	JB - JH																
17779	Inedit																
Bvi. 1088 00 00 108 800 	For locking final drive pinion.													•		•	
	NE2 NE3 NE7 NL2 NL5 NL7 NO2 NO5																
17770	Z. International																
Bvi. 1104 00 00 110 400 	For fitting left-hand differential seal.			•		•		•	•	•						•	
	AR4 AD4 AD8																
17908	Z. International																
Bvi. 1106 00 00 110 600 	For fitting rear plugs.			•		•		•	•	•						•	
	AR4 AD4 AD8																
17914	Devaudel																

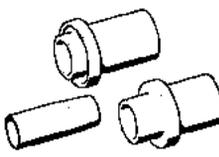
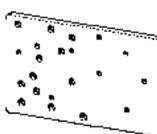
Gearboxes		Twingo	Kangoo	Clio	Clio II	Megane	Megane II	Laguna	Laguna II	Vel Satis	Espace	Espace IV	Avantime	Trafic II	Master	Master Prop
Bvi. 1133-01 77 00 113 674 	Shim for locking gearbox input lever in 1st gear.															
	J gearboxes all types	•	•	•	•	•		•			•					•
18728	Cleon															
Bvi. 1161 00 00 116 100 	Magnetic holder support plate and standard spanners, 0.6 and 1.6.															
	JC - JR		•	•	•	•	•	•	•		•					•
17911	Z. International															
Bvi. 1162 00 00 116 200 	Mandrel for refitting control shaft bearing rings.															
	JB - JC	•	•	•	•	•		•			•					•
17912	Z. International															
Bvi. 1165 00 00 116 500 	For extracting output shaft bearing on clutch/differential housing.															
	JC - JR		•	•		•	•	•	•		•					•
17910	Inedit															
Bvi. 1170 00 00 117 000 	Extractor for 5th gear hub on input shaft. Replaces GB.1003.															
	JB JC JH JR NG NE NL NO gearboxes	•	•	•	•	•	•	•	•		•			•		•
17913	Gillet															
Bvi. 1175 00 00 117 500 	Mounting bolt for 5th gear fixed pinion.															
	J gearboxes	•	•	•	•	•	•	•	•		•					•
17909	Fenwick															
Bvi. 1191 00 00 119 100 	Socket for gearbox filling and draining plugs. 10 mm female square 3/8 drive.															
	NG - UN - NL - NO UN1 - UN5 - 4139 Axle OT														•	•
87188																

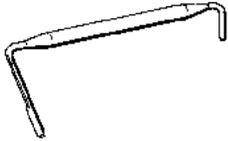
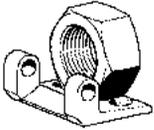
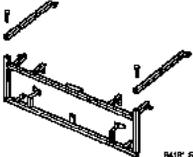
		Gearboxes														
		Twingo	Kangoo	Clio	Clio II	Megane	Megane II	Laguna	Laguna II	Vel Satis	Espace	Espace IV	Avantime	Trafic II	Master	Master Prop
Bvi. 1213 00 00 121 300  <small>18070</small>	Drain plug spanner.															
	AR4 AD4 AD8		•	•	•	•		•	•		•					•
Devaudel																
Bvi. 1215-01 00 00 121 501  <small>99545</small>	Kit for checking automatic transmission oil pressure (boxed set), 25 bar pressure gauge.															
				•	•	•	•	•	•	•	•	•	•	•	•	•
Devaudel																
Bvi. 1216 00 00 121 600  <small>18071</small>	Tool for centring final drive pinion in step-down housing.															
	NE													•		•
Devaudel																
Bvi. 1235 00 00 123 500  <small>18054</small>	For fitting PK1 gearbox differential output seal.															
	PK1 - AD8													•	•	•
Z. International																
Bvi. 1236 00 00 123 600  <small>18061</small>	For fitting input shaft seal.															
	PK														•	•
Devaudel																
Bvi. 1255 00 00 125 500  <small>18069</small>	For removing/refitting sunwheel output flanges.															
	AD4 AD8			•		•		•	•		•					•
Luneray																
Bvi. 1267 00 00 126 700  <small>18055</small>	Tool for removing/refitting gear selection lever pins.															
	PK														•	•
Z. International																

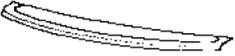
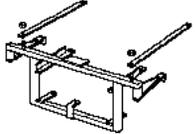
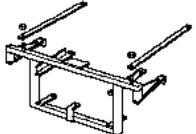
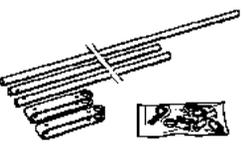
		Gearboxes											Twingo	Kangoo	Clio	Clio II	Megane	Megane II	Laguna	Laguna II	Vel Satis	Espace	Espace IV	Avantime	Trafic II	Master	Master Prop	
Bvi. 1322 00 00 132 200 	Tool for positioning lip seal.																											
	AD4																											
	Luneray																											
Bvi. 1323 00 00 132 300 	Castellated spanner for differential nut.																											
	AD4																											
	Z. International																											
Bvi. 1389 00 00 138 900 	Rulers for measurements on automatic transmission.																											
	AD4 - AR4 - AD8 automatic transmissions																											
	Devaudel																											
Bvi. 1400-01 00 00 140 001 	Tool kit for operating on Aisin Warner automatic transmissions.																											
	SU0 - SU1 Automatic Transmission																											
	Inedit																											
Bvi. 1412 00 00 141 200 	Tool for removing/refitting clutch fork roll pins.																											
	PK - PF gearboxes																											
	Gillet																											
Bvi. 1416 00 00 141 600 	Fork for holding pins and lock shims.																											
	PK - PF gearboxes																											
	Desvii																											
Bvi. 1417 00 00 141 700 	Housing support.																											
	PK - PF - ND0 gearboxes																											
	Desvii																											

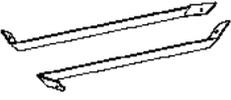
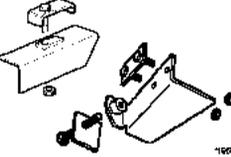
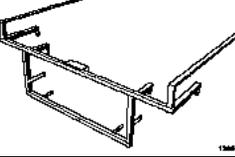
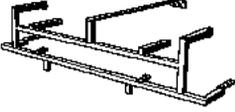
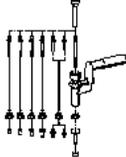
		Gearboxes		Twingo	Kangoo	Clio	Clio II	Megane	Megane II	Laguna	Laguna II	Vel Satis	Espace	Espace IV	Avantime	Trafic II	Master	Master Prop	
Bvi. 1458 00 00 145 800 	Tool for fitting control pin lip seal.																		
	DP0 automatic transmission				•		•	•	•	•	•		•						•
	Z. International																		
18095																			
Bvi. 1459 00 00 145 900 	Tool for fitting right-hand driveshaft output seal.																		
	DP0 automatic transmission				•		•	•	•	•	•		•						•
	Z. International																		
14800																			
Bvi. 1460 00 00 146 000 	Tool for fitting left-hand driveshaft output seal.																		
	DP0 automatic transmission				•		•	•	•	•	•		•						•
	Z. International																		
14801																			
Bvi. 1462 00 00 146 200 	Screw for adjusting blade.																		
	DP0 automatic transmission				•		•	•	•	•	•		•						•
	Z. International																		
14798																			
Bvi. 1510 00 00 151 000 	Boxed kit for working on PF gearbox.																		
	PF gearboxes												•	•	•		•	•	
	Desvil																		
21573																			
Bvi. 1510-01 00 00 151 001 	Boxed kit for working on PK6 gearbox.																		
	PK6 gearboxes											•	•	•	•		•	•	
	Z. International																		
21573																			
Bvi. 1527 00 00 152 700 	Plate for adjusting clearance of input and output shafts.																		
	JC - JR				•	•	•	•	•	•	•		•						•
	Inédit																		
40001																			

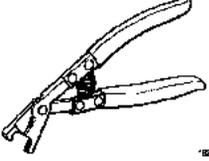
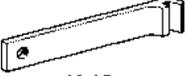
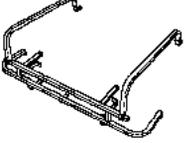
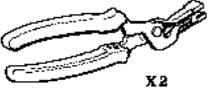
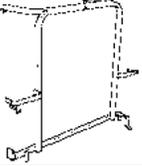
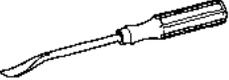
		Gearboxes														
		Twingo	Kangoo	Clio	Clio II	Megane	Megane II	Laguna	Laguna II	Vel Satis	Espace	Espace IV	Avantime	Trafic II	Master	Master Prop
Bvi. 1570 00 00 157 000  X 2 <small>19918</small>	Tools for fitting fork shaft locking systems.															
	JB - JC - JH - JR - NG	•	•	•	•	•	•	•	•	•	•					•
Inedit																
Bvi. 1576 00 00 157 600  <small>18056</small>	Mandrel for refitting mechanism housing bearings.															
	JB - JH	•	•	•	•	•	•	•	•	•	•					•
Z. International																
Bvi. 1581 00 00 158 100  <small>18747</small>	J gearbox mounting, all types. Fits on DESVIL stand.															
	JB - JC - JH - JR	•	•	•	•	•	•	•	•	•	•					•
Inedit																
Bvi. 1582 00 00 158 200  <small>18891</small>	Gearbox output driveshaft yoke & rear axle support.															
	Axle SD1					•										•
SPX																
Bvi. 1601 00 00 160 100  <small>18061</small>	For fitting input shaft seal.															
	JC - JR				•	•	•	•	•	•	•					•
Inedit																
Bvi. 1602 00 00 160 200  <small>23133</small>	Rear final drive bracket pins. Fit on DESVIL stand. For use with GB.1016-01 or GB.1581.															
	Kangoo 4x4	•														•
SPX																
Bvi. 1611 00 00 161 100  <small>21570</small>	Tool for fitting transmission output seal.															
	SU1 automatic transmission SU1									•	•	•				•
Inedit																

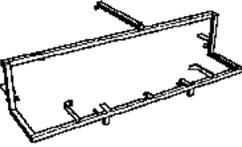
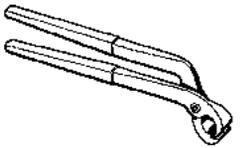
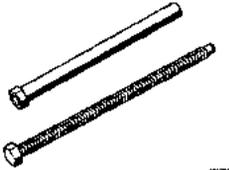
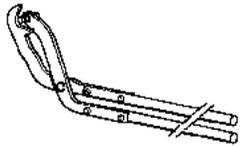
		Gearboxes														
		Twingo	Kangoo	Clio	Clio II	Mégane	Mégane II	Laguna	Laguna II	Vel Satis	Espace	Espace IV	Avantime	Trafic II	Master	Master Prop
Bvi. 1689 00 00 168 900  <small>18201</small>	Differential output seal fitting tool.															
	NDO						•									•
Z. International																
Bvi. 1718 77 11 381 718  <small>18264</small>	Gearbox support mounting. Can be used with hydraulic jack															
	PK - PF							•	•	•	•	•	•		•	•
Inédit																

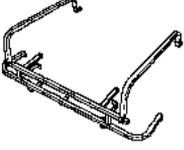
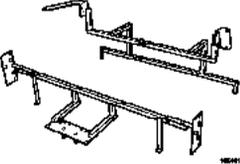
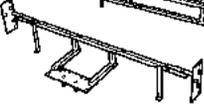
		Bodywork														
		Twingo	Kangoo	Clio	Clio II	Megane	Megane II	Laguna	Laguna II	Vel Satis	Espace	Espace IV	Avantime	Trafic II	Master	Master Prop
Car. 41 00 01 310 400  <small>18309</small>	Tool for centring door hinge pins, Ø6 mm diameter.															
	Inedit															
Car. 956 00 00 095 600  <small>18310</small>	Tool for lining up door hinges. Used with tool Ms.580.															
	Z. International															
Car. 1033 00 00 103 300  <small>18202</small>	Tool for removing bonded mirrors.															
	Gillet															
Car. 1203 00 00 120 300  <small>94191-S</small>	Front end jig.															
	Luneray															
Car. 1218 00 00 121 800  <small>18263</small>	Dashboard protector.															
	Sofare															
Car. 1219-01 00 00 121 901  <small>18308</small>	Tool kit for fitting door panels.															
	Desvii															
Car. 1296 00 00 129 600  <small>18263</small>	Dashboard protector.															
	Sofare															

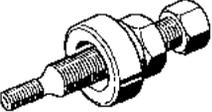
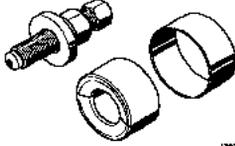
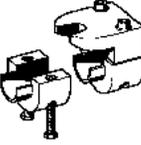
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		Twingo	Kangoo	Clio	Clio II	Megane	Megane II	Laguna	Laguna II	Vel Satis	Espace	Espace IV	Avantime	Trafic II	Master	Master Prop
Car. 1361 00 00 136 100 	Dashboard protector.					•										•
18263	Sofare															
Car. 1363 00 00 136 300 	Tool for removing rear view mirror.	•	•	•	•	•	•	•	•	•	•	•			•	•
99331	Gillet															
Car. 1365 00 00 136 500 	Front face jig.					•										•
99546-1	Devaudel															
Car. 1365-01 00 00 136 501 	Addition to front end template for Scenic Phase I.					•										•
99546-1	Luneray															
Car. 1393 00 00 139 300 	Tooling (telpher) for partial removal of dashboard. Work on air conditioning/heating units without extracting the dashboard.										•		•			•
40002	Z. International															
Car. 1393-01 00 00 139 301 	Adapter for partial removal of dashboard.												•			•
23129	D66 Z. International															
Car. 1406 00 00 140 600 	Scenic dashboard protector.					•										•
18263	Sofare															

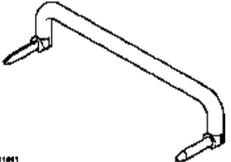
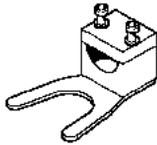
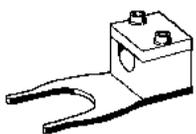
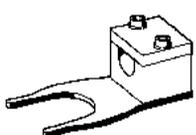
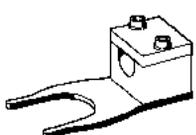
		Bodywork														
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Car. 1407 00 00 140 700 	18312	Luneray														
											•		•			•
Car. 1409 00 00 140 900 	11959	Celette														
											•		•			•
Car. 1415-01 00 00 141 501 	12776	Gillet														
				•		•		•		•		•				•
Car. 1439 00 00 143 900 	13994	Z. International														
			•													•
Car. 1481 00 00 148 100 	14552	Inédit														
						•										•
Car. 1482 00 00 148 200 	18263	Sofare														
						•									•	•
Car. 1504 00 00 150 400 	16069	Gillet														
			•	•	•	•	•	•	•	•	•	•	•	•	•	•

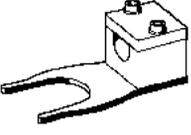
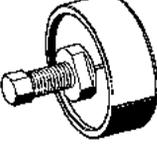
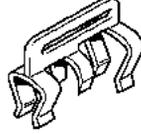
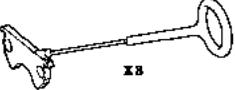
		Bodywork														
		Twingo	Kangoo	Clio	Clio II	Megane	Megane II	Laguna	Laguna II	Vel Satis	Espace	Espace IV	Avantime	Trafic II	Master	Master Prop
Car. 1521 00 00 152 100  <small>18203</small>	Pliers for fitting trim mounting clips on seats fitted with side airbags.	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
	Gillet															
Car. 1528 00 00 152 800  X 10 <small>17711</small>	Thrust stops for installing windows without encapsulation.		•		•	•										•
	Z. International															
Car. 1546 00 00 154 600  <small>17563</small>	Template for front end, Scenic phase 2.					•										•
	Inedit															
Car. 1558 00 00 155 800  X 2 <small>18650</small>	Pliers for zips.	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
	Gillet															
Car. 1563 00 00 156 300  <small>18122</small>	Jig for positioning rear lid hinges.					•										•
	Scenic 4x4 Inedit															
Car. 1583 00 00 158 300  <small>18263</small>	Dashboard protector.							•								•
	SPX															
Car. 1597 00 00 159 700  <small>19647</small>	Lever for removing fasteners from cornering rear handle.				•	•		•	•		•	•		•	•	
	Gillet															

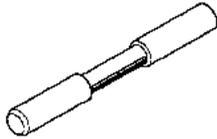
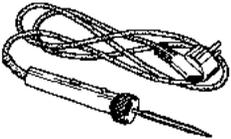
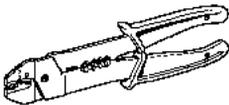
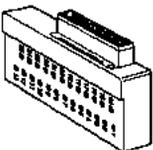
		Bodywork														
		Twingo	Kangoo	Clio	Clio II	Megane	Megane II	Laguna	Laguna II	Vel Satis	Espace	Espace IV	Avantime	Trafic II	Master	Master Prop
Car. 1637 00 00 163 700 	Template for front end, Clio II Phase 2.				•											•
	23128	SPX														
Car. 1640 00 00 164 000 	Dashboard protector.									•						•
	18263	Sofare														
Car. 1657 00 00 165 700 	Door panel uncrimping pliers.									•		•				•
	100506	Gillet														
Car. 1670 00 00 167 000 	Dashboard protector.						•									•
	18263	SPX														
Car. 1673 00 00 167 300 	Dashboard beam play compensation bushing repositioning bolt.						•					•				•
	101308	SPX														
Car. 1679 00 00 167 900 	Front seat booster cushion spring pliers.											•				•
	105958	Gillet														
Car. 1704 77 11 381 704 	J84 Dashboard protector						•									•
	18263	Z. International														

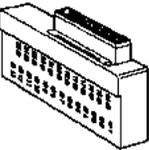
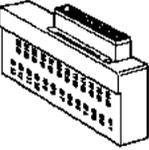
		Bodywork														
		Twingo	Kangoo	Clio	Clio II	Megane	Megane II	Laguna	Laguna II	Vel Satis	Espace	Espace IV	Avantime	Trafic II	Master	Master Prop
Car. 1707 77 11 381 707 	Template for front end, Kangoo phase II.		•													•
	17563	Z. International														
Car. 1710 77 11 381 710 	Template for roof supports and boot support guide.						•									•
	E84	Z. International														
Car. 1713 77 11 381 713 	Tipper support for working on actuator.															•

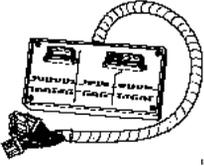
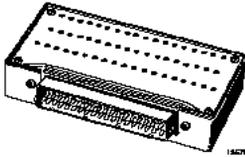
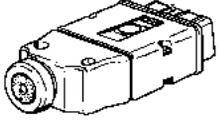
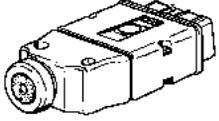
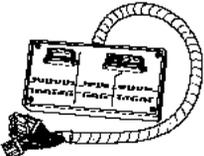
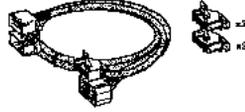
Steering		Twingo	Kangoo	Clio	Clio II	Megane	Megane II	Laguna	Laguna II	Vel Satis	Espace	Espace IV	Avantime	Trafic II	Master	Master Prop
Dir. 803 00 00 080 300  <small>77840</small>	Union for measuring power assisted steering oil pressure. Metric thread.		•		•			•	•	•	•	•	•	•	•	•
	Z. International															
Dir. 1083-01 00 00 108 301  <small>13571</small>	Tool for removing power assisted steering pump pulley.		•	•	•	•		•	•	•	•	•	•	•	•	•
	Inédit															
Dir. 1083-02 00 00 108 302  <small>13570</small>	Kit for removing power assisted pump pulley.		•	•	•	•		•	•	•	•	•	•	•	•	•
	Inédit															
Dir. 1204 00 00 120 400  <small>18730</small>	Adapter for measuring pressure in power steering high pressure pipe.		•	•	•	•		•	•	•	•	•	•	•	•	•
	Z. International															
Dir. 1266 00 00 126 600  <small>18736</small>	Tool for locking steering rack for changing axial ball joints.	•		•												•
	Gillet															
Dir. 1282-01 00 00 128 201  <small>13579</small>	17 mm spanner for removing steering high pressure pipe.										•		•			•
	Z. International															
Dir. 1282-02 00 00 128 202  <small>18735</small>	19 mm spanner for removing steering high pressure pipe.										•		•			•
	Z. International															

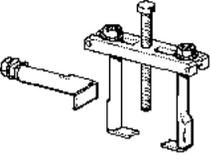
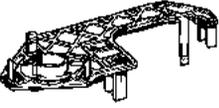
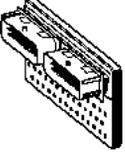
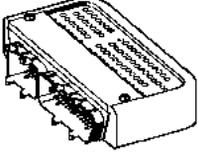
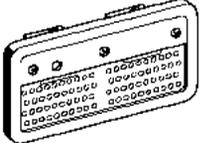
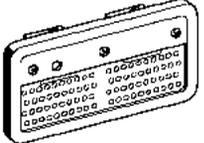
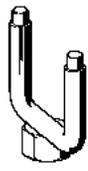
		Steering														
		Twingo	Kangoo	Clio	Clio II	Megane	Megane II	Laguna	Laguna II	Vel Satis	Espace	Espace IV	Avantime	Trafic II	Master	Master Prop
Dir. 1303 00 00 130 300  <small>18731</small>	Tool for adjusting steering unit.							•								•
Dir. 1303-01 00 00 130 301  <small>11931</small>	Tool for adjusting steering unit.									•		•				•
Dir. 1305-01 00 00 130 501  <small>18434</small>	Tool for removing/refitting axial ball joint, Ø35 mm to 41 mm diameter.	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
Dir. 1306 00 00 130 600  <small>97467</small>	Tool for locking steering rack.				•			•								•
Dir. 1306-01 00 00 130 601  <small>18737</small>	Tool for locking steering rack (TRW).		•			•										•
Dir. 1306-02 00 00 130 602  <small>18737</small>	Tool for locking steering rack.									•	•					•
Dir. 1306-03 00 00 130 603  <small>18737</small>	Tool for locking steering rack.														•	•
<small>18737</small>	Gillet															

		Steering														
		Twingo	Kangoo	Clio	Clio II	Megane	Megane II	Laguna	Laguna II	Vel Satis	Espace	Espace IV	Avantime	Trafic II	Master	Master Prop
Dir. 1306-04 00 00 130 604  <small>18737</small>	Tool for locking steering rack.						•									•
	Gillet															
Dir. 1308 00 00 130 800  <small>18892</small>	Extractor for power assisted steering pump pulley.							•		•		•				•
	Z. International															
Dir. 1408 00 00 140 800  <small>11930</small>	Pliers for adjusting steering column universal joint.									•		•				•
	Gillet															
Dir. 1594 00 00 159 400  <small>19646</small>	Spacers for positioning steering column.								•	•						•
	SPX															
Dir. 1678 00 00 167 800  <small>103192</small>	Spacers for positioning steering column.										•					•
	Gillet															

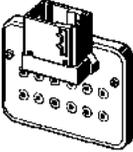
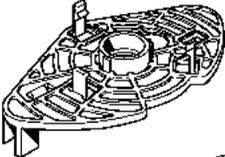
		Electricity															
		Twingo	Kangoo	Clio	Clio II	Megane	Megane II	Laguna	Laguna II	Vel Satis	Espace	Espace IV	Avantime	Trafic II	Master	Master Prop	
Ele. 1044-01 00 00 104 401 	Tool for removing Packard connector clips. Replaces tool Ele.1044.	•	•	•	•	•		•			•			•		•	
	<small>13492</small> Gillet																
Ele. 1070 00 00 107 000 	20W to 40W adjustable soldering iron. 220 V single-phase power supply.	•	•	•	•	•		•	•		•			•		•	
	<small>13582</small> Devaudei																
Ele. 1071 00 00 107 100 	Ø50 mm diameter inspection mirror with pivoting handle, chrome-plated flexible shaft	•	•	•	•	•		•	•		•			•		•	
	<small>18888</small> Devaudei																
Ele. 1086 00 00 108 600 	Spark plug wrench with universal joint and 9 mm square drive.										•					•	
	<small>93907</small> Z. International																
Ele. 1146 00 00 114 600 	Crimpers for non-insulated terminals.	•	•	•	•	•		•	•	•	•	•		•		•	
	<small>20332</small> Gillet																
Ele. 1263 00 00 126 300 	Set of gauges for SIGMA connectors.	•	•					•								•	
	<small>20337</small> Devaudei																
Ele. 1286 00 00 128 600 	15-track bornier for checking wiring	•	•													•	
	ABS Bosch																
	<small>98498</small> Perricaudet																

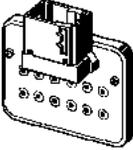
		Electricity											Twingo	Kangoo	Clio	Clio II	Megane	Megane II	Laguna	Laguna II	Vel Satis	Espace	Espace IV	Avantime	Trafic II	Master	Master Prop
Ele. 1287 00 00 128 700  <small>96832-S</small>	Detonator tool for destroying airbags and pretensioners.																										
	Perricaudet																										
Ele. 1287-01 00 00 128 701  <small>13574</small>	Spare cable for airbag and pretensioner destruction tool.																										
	Perricaudet																										
Ele. 1287-02 00 00 128 702	Kit of 2 adaptors for the airbag and pretensioner destruction tool.																										
	One-Too																										
Ele. 1294-01 00 00 129 401  <small>96826-S</small>	Tool for removing windscreen wiper arm.																										
	Z. International																										
Ele. 1332 00 00 133 200  <small>98498</small>	25-track bornier for checking automatic clutch or diesel injection circuit.																										
	Perricaudet																										
Ele. 1371 00 00 137 100  <small>98498</small>	20-track AXID mini connectors .For Passenger Compartment Connection Unit.																										
	Perricaudet																										
Ele. 1382 00 00 138 200  <small>10250</small>	Set of spark plug spanners, 16 & 21 mm, torque 1.75 & 2.8 daNm + square adapter 9 - 9.52 for Elé.1086 spanner.																										
	Z. International																										

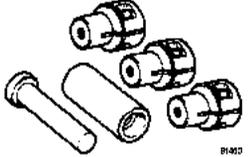
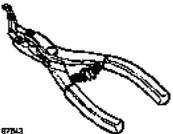
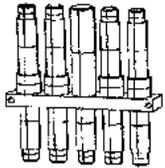
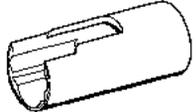
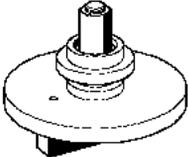
		Electricity														
		Twingo	Kangoo	Clio	Clio II	Megane	Megane II	Laguna	Laguna II	Vel Satis	Espace	Espace IV	Avantime	Trafic II	Master	Master Prop
Ele. 1382-01 00 00 138 201 	14 mm spark plug 3/8. Square drive															
	D4 engines	•	•		•											•
	17771 Gillet															
Ele. 1391 00 00 139 100 	48-track bornier for fault finding on air conditioning and heating.															
											•		•			•
	13575 Perricaudet															
Ele. 1444 00 00 144 400 	55-track bornier for checking computer wiring.															
	L/X															•
	13576 Perricaudet															
Ele. 1446 00 00 144 600 	Battery voltage tester for systematic checking before vehicle delivery.															
		•	•		•	•		•	•		•			•		•
	13681 Actia															
Ele. 1484-10 00 00 148 410 	Airbag cable kit. Compatible adapters between: XRBAG - NXR or CLIP.															
	All types	•	•	•	•	•		•		•			•			•
	Actia															
Ele. 1506 00 00 150 600 	Bornier for checking continuities of passenger compartment wiring harness connections.															
	Multiplexing										•		•			•
	13575 Z. International															
Ele. 1506-01 00 00 150 601 	BGTOC additional electric wiring harness (sunroof). Used with tool Ele.1506.															
																•
	23138 SPX															

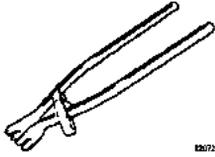
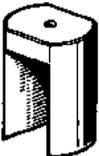
Electricity		Twingo	Kangoo	Clio	Clio II	Megane	Megane II	Laguna	Laguna II	Vel Satis	Espace	Espace IV	Avantime	Trafic II	Master	Master Prop
Ele. 1552 00 00 155 200  <small>18174</small>	Tool for removing rear wiper arm. Z. International		•			•	•	•	•	•	•	•	•	•	•	•
Ele. 1580 00 00 158 000  <small>23139</small>	Template for positioning rear screen wiper mechanism. K74 Inédit							•								•
Ele. 1588 00 00 158 800  <small>19852</small>	Bornier for checking automatic transmission computer wiring. DP0 automatic transmission One-100		•	•	•	•	•	•		•						•
Ele. 1589 00 00 158 900  <small>23050</small>	80-track bornier (52 + 28) for checking automatic transmission computer wiring. JH sequential gearboxes Inédit	•														•
Ele. 1593 00 00 159 300  <small>19688</small>	Midtronics R 330 battery tester. Midtronics	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
Ele. 1598 00 00 159 800  <small>19688</small>	Bornier for checking UCH. (Central Passenger Compartment Control Unit). Inédit							•	•							•
Ele. 1600 00 00 160 000  <small>19648</small>	Key for removing/refitting driving position wiring lock ring. SPX							•								•

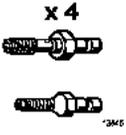
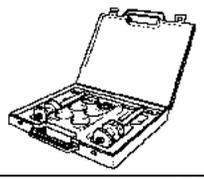
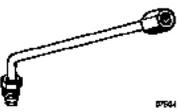
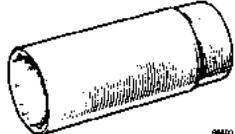
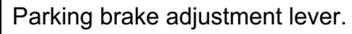
Electricity		Twingo	Kangoo	Clio	Clio II	Megane	Megane II	Laguna	Laguna II	Vel Satis	Espace	Espace IV	Avantime	Trafic II	Master	Master Prop	
Ele. 1603 00 00 160 300 	Bornier (2 x 24-track) for checking Fuse and Relay Box.								•	•						•	
	SPX																
Ele. 1614 00 00 161 400	B52 50-track airbag test bornier.	•				•										•	
	JCAE																
Ele. 1615 00 00 161 500	B53 75-track airbag test bornier.								•	•			•		•	•	
	JCAE																
Ele. 1616 00 00 161 600	28-track front seat integrated function test bornier.								•	•						•	
	JCAE																
Ele. 1617 00 00 161 700	Airbag wiring adapter set. Adapters compatible between: XRBAG - NXR or CLIP.	•				•			•	•			•		•	•	
	JCAE																
Ele. 1618 00 00 161 800	96-track bornier (48 + 48) 5NR - Magneti Marelli - (Integral upper engine block).	•	•		•											•	
	JCAE																
Ele. 1620 00 00 162 000	ABS 25-track test bornier. ABS - EBC 430 LUCAS.															•	•
	JCAE																

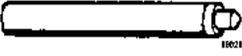
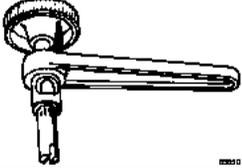
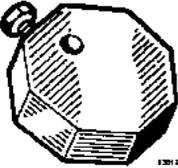
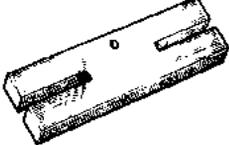
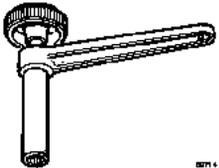
		Electricity														
		Twingo	Kangoo	Clio	Clio II	Megane	Megane II	Laguna	Laguna II	Vel Satis	Espace	Espace IV	Avantime	Trafic II	Master	Master Prop
Ele. 1621 00 00 162 100	121-track bornier (80 + 41), EDC 15 VM + BOSCH.															
	F9Q CR		•		•	•				•						•
	JCAE															
Ele. 1622 00 00 162 200	55-track bornier (40 + 15) Sagem UCH.															
	Clio TWR				•										•	•
	JCAE															
Ele. 1629 00 00 162 900	B54 50-track airbag test bornier.															
	Clio II Phase 2				•					•						•
	JCAE															
Ele. 1641 00 00 164 100	- B 55 - Airbag test bornier															
										•						•
	JCAE															
Ele. 1645 00 00 164 500 	12-track bornier A. Seat inertia reel, parking brake, key card reader.															
										•						•
	100507 One-100															
Ele. 1680 00 00 168 000 	Template for positioning rear screen wiper mechanism.															
												•				•
	103190 Gillet															
Ele. 1681 00 00 168 100	Test pin kit. (Universal bornier).															
		•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
	JCAE															

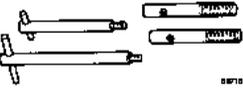
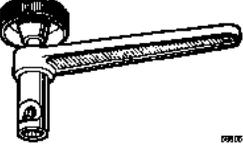
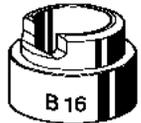
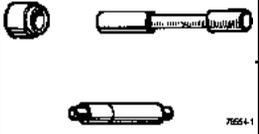
Electricity		Twingo	Kangoo	Clio	Clio II	Megane	Megane II	Laguna	Laguna II	Vel Satis	Espace	Espace IV	Avantime	Trafic II	Master	Master Prop
Ele. 1684 00 00 168 400	ACU3 - 27- track airbag test bornier.											•				•
	JCAE															
Ele. 1685 00 00 168 500	ACU4 - 10-track airbag test bornier.						•									•
	JCAE															
Ele. 1687 00 00 168 700  <small>100507</small>	22-track airbag test bornier - front seat connector -						•									•
	JCAE															
Ele. 1701 77 11 381 701	4-track Airbag test bornier -		•													•
	JCAE															
Ele. 1717 77 11 381 717	34-track ACU4 Airbag test bornier - Replaces Ele.1686						•									•
	JCAE															

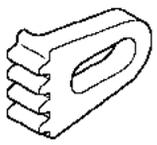
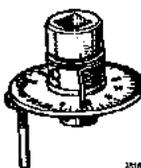
		Clutch														
		Twingo	Kangoo	Clio	Clio II	Megane	Megane II	Laguna	Laguna II	Vel Satis	Espace	Espace IV	Avantime	Trafic II	Master	Master Prop
Emb. 880 00 00 088 000 	Pin extractor.	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
	84328	Z. International														
Emb. 1075 00 00 107 500 	Set of tools for unclipping clutch shaft and fitting pentagonal stop ring.													•		•
	91450	Devaudel														
Emb. 1163 00 00 116 300 	For fitting thrust pad guide tube. Used with tool Emb.880.		•	•	•			•			•					•
	93068	Gearboxes JC Z. International														
Emb. 1307 00 00 130 700 	Pliers for removing clutch thrust pad.								•	•	•		•			•
	97543	Gillet														
Emb. 1518 00 00 151 800 	Set of clutch friction pad centring devices.	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
	40004	Desvil														
Emb. 1596 00 00 159 600 	24 mm socket for removing/refitting clutch transmitter.							•	•	•	•			•		•
	19854	SPX														
Emb. 1604 00 00 160 400 	Clutch compression tool for refitting the play compensation system.				•		•		•	•	•	•	•		•	•
	19919	Z. International														

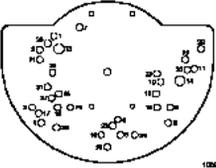
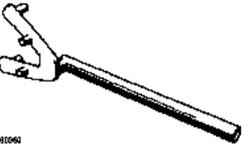
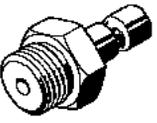
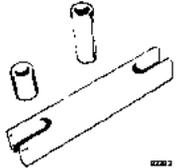
Brakes		Twingo	Kangoo	Clio	Clio II	Megane	Megane II	Laguna	Laguna II	Vel Satis	Espace	Espace IV	Avantime	Trafic II	Master	Master Prop
Fre. 244-03 00 00 024 403  <small>73167 A</small>	Pressure gauge for checking braking circuit: from 0 to 160 bar. Spares for Fre.1085.	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
73167-A	IMTP															
Fre. 284-06 00 00 028 406  <small>73167 B</small>	Flexible connector for Fre.244-03 Fre.1085-01 pressure gauge. Spares for Fre.1085.	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
73167-B	IMTP															
Fre. 573-01 00 00 057 301  <small>82072</small>	Pliers for hooking handbrake cable onto brake shoe lever.	•					•			•			•		•	
82072	Gillet															
Fre. 826 00 00 082 600  <small>81813</small>	Tool for removing rear brake side retaining spring.				•					•			•		•	
81813	Z. International															
Fre. 1047 00 00 104 700  <small>89034</small>	Tool for dismantling handbrake mechanism on rear brake calliper.			•												•
89034	Z. International															
Fre. 1085 00 00 108 500  <small>13569</small>	Complete kit for checking braking system.	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
13569	Devaudel															
Fre. 1085-01 00 00 108 501  <small>97835</small>	Braking pressure checking gauge: 0 to 250 bar. (spares for Fre.1085).	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
97835	IMTP															

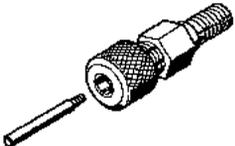
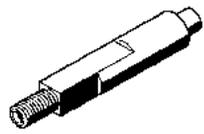
Brakes		Twingo	Kangoo	Clio	Clio II	Megane	Megane II	Laguna	Laguna II	Vel Satis	Espace	Espace IV	Avantime	Trafic II	Master	Master Prop
Fre. 1085-06 00 00 108 506  13545	Set of 5 spare adapters for Fre.1085. Replaces Fre.1085-03.	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
	Luneray															
Fre. 1190-01 00 00 119 001  21569	Tool for pushing brake calliper piston back. Bendix - Bosch - Brembo brakes		•		•	•	•	•	•	•	•	•	•	•	•	•
	Gillet															
Fre. 1309 00 00 130 900  97594	Extension for rear brake bleeding apparatus.							•								•
	Luneray															
Fre. 1396 00 00 139 600  86890	13 mm socket, Radio series, 31 mm long, for removing/refitting brake servo.										•		•			•
	Gillet															
Fre. 1499 00 00 149 900  15032	Tool for removing handbrake sleeves.				•											•
	Desvii															
Fre. 1708 77 11 381 708 	Parking brake adjustment lever.															•
	Gillet															

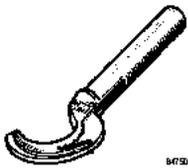
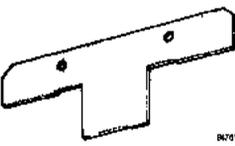
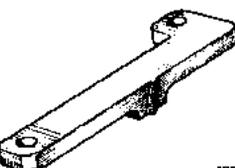
		Engine														
		Twingo	Kangoo	Clio	Clio II	Megane	Megane II	Laguna	Laguna II	Vel Satis	Espace	Espace IV	Avantime	Trafic II	Master	Master Prop
Mot. 111 00 01 320 300 	Punch for fitting lubrication rail plugs.															
	C engines	•	•	•	•	•	•	•	•	•	•			•	•	•
68625	Desvii															
Mot. 233 00 00 023 300 	Valve rocker adjuster for nut, 13 mm across the flats.															
														•		•
68650	Vautrin															
Mot. 251-01 00 00 025 101 	Gauge stand. Used with Mot.252-01.															
	Lined engines	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
83812	Z. International															
Mot. 252-01 00 00 025 201 	Bearing plate for measuring liner protrusion. Used with Mot.251-01.															
	Lined engines	•	•	•	•	•		•	•	•	•	•		•		•
83812b	Z. International															
Mot. 443 00 00 044 300 	Valve rocker adjuster (except 804 type engines).															
														•		•
69714	Vautrin															
Mot. 445 00 00 044 500 	Universal wrench for oil filter.															
		•	•	•	•	•		•	•		•		•	•	•	•
69716	Z. International															
Mot. 445-01 00 00 044 501 	Spare strap for Mot.445.															
		•	•	•	•	•		•	•		•		•	•	•	•
71261	Z. International															

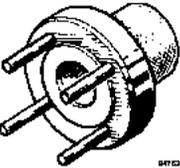
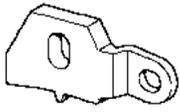
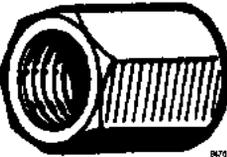
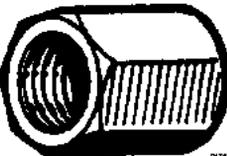
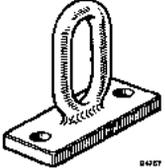
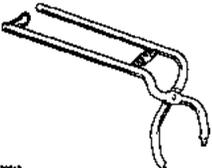
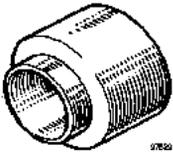
		Engine														
		Twingo	Kangoo	Clio	Clio II	Megane	Megane II	Laguna	Laguna II	Vel Satis	Espace	Espace IV	Avantime	Trafic II	Master	Master Prop
Mot. 446 00 00 044 600 	Tool for centring cylinder head.															
	Engines A - 821 - 10 - 821 - 11															
69717	Z. International															
Mot. 451 00 00 045 100 	Set of studs for fitting cylinder head gasket on cylinder block.															
	F7R															
69718	Z. International															
Mot. 567 00 00 056 700 	Valve rocker adjuster.															
	C engines															
68605	Vautrin															
Mot. 574-18 00 00 057 418 	Set for refitting gudgeon pins (A10 - B15 - V15).															
	F3P															
97542	Z. International															
Mot. 574-19 00 00 057 419 	B16 ring for positioning gudgeon pin.															
	C3G															
97582	Z. International															
Mot. 574-21 00 00 057 421 	Ring B17, centring tool C17 and pin A17 for positioning gudgeon pin.															
	D engines															
76554-1	Z. International															
Mot. 574-22 00 00 057 422 	Tooling for refitting gudgeon pins. Boxed set.															
	Engines J, F, G, C															
10052	Z. International															

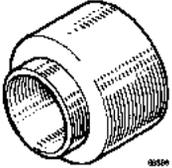
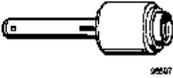
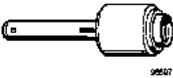
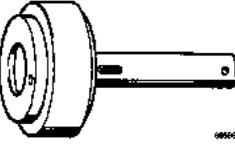
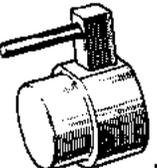
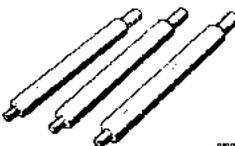
		Engine														
		Twingo	Kangoo	Clio	Clio II	Megane	Megane II	Laguna	Laguna II	Vel Satis	Espace	Espace IV	Avantime	Trafic II	Master	Master Prop
Mot. 574-23 00 00 057 423 	Ring B18 and shim C18 for fitting gudgeon pins.															
	K engines		•		•	•		•								•
97542	Z. International															
Mot. 574-24 00 00 057 424  	Pin A13-01, replaces pin A13 for fitting gudgeon pins.															
	E engines		•	•	•	•			•							•
7654-1	Z. International															
Mot. 574-25 00 00 057 425  	Pin A19 and shim C19 for fitting gudgeon pins.															
	D7 engines	•	•		•											•
7654-1	Z. International															
Mot. 582 00 00 058 200 	Tool for immobilising flywheel.															
	All types except G, S and D engines	•	•	•	•	•	•	•	•	•	•			•		•
77121	Z. International															
Mot. 582-01 00 00 058 201 	Tool for immobilising flywheel.															
	Engines D - K	•	•	•	•	•	•		•	•					•	•
99614	Z. International															
Mot. 591-02 00 00 059 102 	Magnetised flexible shaft with pointer for angular wrench for tightening cylinder head.															
		•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
77889	Z. International															
Mot. 591-04 00 00 059 104 	Angular wrench for tightening cylinder head (1/2 drive).															
		•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
78181	Z. International															

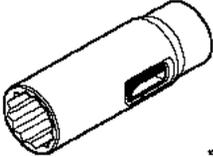
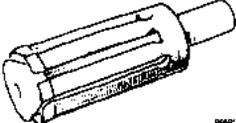
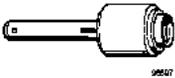
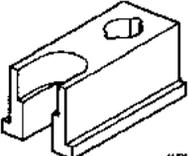
		Engine	Twingo	Kangoo	Clio	Clio II	Megane	Megane II	Laguna	Laguna II	Vel Satis	Espace	Espace IV	Avantime	Trafic II	Master	Master Prop
Mot. 792-03 00 00 079 203  <small>12069</small> 10099	Engine support plate for DESVIL stand (with punches from A to W).		•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
	Desvii																
Mot. 799-01 00 00 079 901  <small>91061</small> 80359	Tool for immobilising pinions for toothed timing belt.			•	•	•	•	•	•	•	•	•	•		•		•
	Engines J, F, G, N, E, K Z. International																
Mot. 836-05 00 00 083 605  <small>83269</small> 82258	Boxed kit for measuring oil pressure.		•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
	Devaudel																
Mot. 836-06 00 00 083 606  <small>12851</small> 13291	Spare set of adapters for Mot.836-05 kit.		•	•	•	•		•	•		•			•	•	•	
	Z. International																
Mot. 853 00 00 085 300  <small>82293</small> 83393	Tool for compressing liner end seals.																•
	J8S Inédit																
Mot. 854 00 00 085 400  <small>13261</small> 83254	Tool for immobilising injection pump drive gear.																•
	J8S Z. International																
Mot. 856 00 00 085 600  <small>83276</small> 83375	Gauge stand. Calibration of BOSCH injection pump.		•	•	•	•		•		•				•		•	
	S8U S9U J8S F8M F8Q G8T Z. International																

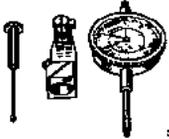
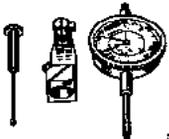
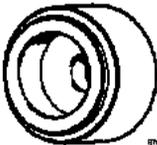
		Engine														
		Twingo	Kangoo	Clio	Clio II	Megane	Megane II	Laguna	Laguna II	Vel Satis	Espace	Espace IV	Avantime	Trafic II	Master	Master Prop
Mot. 856-01 00 00 085 601 	Gauge stand adapter for calibration of BOSCH pump VP 37.															
	F9Q															
13544	Inedit															
Mot. 856-02 00 00 085 602 	Gauge stand. Calibration of BOSCH injection pump.															
	F8Q - F9Q															
14274	Z. International															
Mot. 861 00 00 086 100 	Top Dead Centre pin.															
	Engines J and F															
83394	Inedit															
Mot. 871 00 00 087 100 	Adapter for testing compression.															
	S8U S9U J8S															
83661	Z. International															
Mot. 871-01 00 00 087 101 	Adapter for testing compression.															
	S8U S9U S9W F9Q															
13598	Vautrin															
Mot. 877 00 00 087 700 	Tool for calibrating ROTO-DIESEL pump (side access).															
	J8S F8M F8Q															
84122	Z. International															
Mot. 909-02 00 00 090 902 	13 mm flat ring spanner, for removing lower injection pump mounting bolt.															
	G8T F8M F8Q J8S															
84747	Gillet															

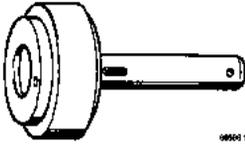
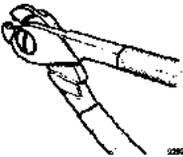
		Engine	Twingo	Kangoo	Clio	Clio II	Megane	Megane II	Laguna	Laguna II	Vel Satis	Espace	Espace IV	Avantime	Trafic II	Master	Master Prop	
Mot. 910 00 00 091 000 	Set of 2 T.D.C. pins for checking timing.																	
	S8 - S9																	
	84918	Inedit																
Mot. 911 00 00 091 100 	Tool for fitting crankshaft seal, timing side.																	
	S8 - S9																	
	84919	Z. International																
Mot. 913 00 00 091 300 	Tool for fitting camshaft seal.																	
	S8 - S9																	
	84919	Z. International																
Mot. 914 00 00 091 400 	Bar for use with Mot.382 for removing valve springs.																	
	S8 - S9																	
	84897	Z. International																
Mot. 915 00 00 091 500 	Tool for compressing pushrods for adjusting valve clearance.																	
	S8 - S9																	
	84750	Z. International																
Mot. 916 00 00 091 600 	Gauge for checking height of valve stems.																	
	S8 - S9																	
	84751	Z. International																
Mot. 917 00 00 091 700 	Tool for immobilising oil pump drive gear.																	
	S8 - S9																	
	84752	Z. International																

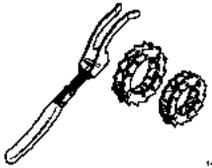
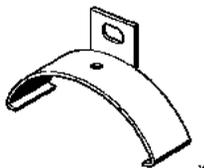
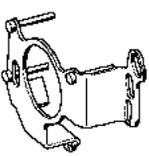
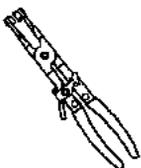
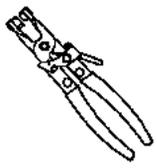
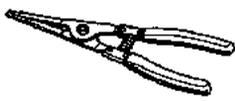
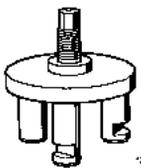
		Engine														
		Twingo	Kangoo	Clio	Clio II	Mégane	Mégane II	Laguna	Laguna II	Vel Satis	Espace	Espace IV	Avantime	Trafic II	Master	Master Prop
Mot. 918 00 00 091 800 	Tool for checking engagement of oil pump pinion.															
	S8 - S9															
84753	Vautrin															
Mot. 919-02 00 00 091 902 	Tool for locking flywheel.															
	S8 - S9 - P9															
14212	Vautrin															
Mot. 921 00 00 092 100 	Tool for extracting injector holders.															
	S8 - S9															
84756	Z. International															
Mot. 921-01 00 00 092 101 	Tool for extracting injector holders.															
	S9W															
84756	Luneray															
Mot. 923 00 00 092 300 	Tool for lifting cylinder block.															
	S8U S9U F8M F8Q F3P F7P F1N F2N F2R F3N															
84757	Z. International															
Mot. 929-01 00 00 092 901 	Pliers for removing valve play adjusters.															
	S8 - S9 - P9															
86648	Gillet															
Mot. 988-02 00 00 098 802 	Tool for fitting camshaft seal (seal 25 x 42 x 7) on F engine, timing side. Replaces Mot.988-01.															
	F8M F8Q F1N F2N F2R F3N F3P F7P															
97629	Inédit															

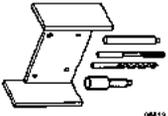
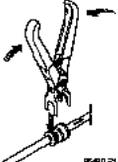
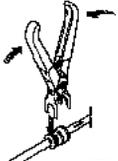
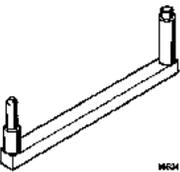
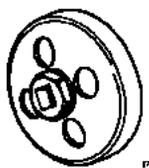
		Engine														
		Twingo	Kangoo	Clio	Clio II	Megane	Megane II	Laguna	Laguna II	Vel Satis	Espace	Espace IV	Avantime	Trafic II	Master	Master Prop
Mot. 989 00 00 098 900 	Tool for fitting seal on intermediate shaft housing.															
	F8M F8Q F1N F2N F2R F3N F3P F7P		•	•	•	•					•			•		•
86888	Desvil															
Mot. 990-02 00 00 099 002 	Tool for fitting crankshaft seal (seal 50 x 68 x 8) on F engine, timing side. Replaces Mot.990-01.															
	F engines		•	•	•	•		•	•	•	•			•		•
96897	Inédit															
Mot. 990-03 00 00 099 003 	Tool for fitting crankshaft seal, timing side.															
	F engines without intermediate shaft		•	•	•	•		•	•	•	•		•	•	•	•
96897	Inédit															
Mot. 991-01 00 00 099 101 	Tool for fitting crankshaft seal (seal 85 x 105 x 8), flywheel side.															
	F engines		•	•	•	•		•	•	•	•			•	•	•
96898-1	Inédit															
Mot. 993 00 00 099 300 	Mandrel for fitting intermediate shaft inner ring.															
	F engines			•		•		•		•			•		•	•
86887	Z. International															
Mot. 994 00 00 099 400 	Mandrel for fitting intermediate shaft outer ring.															
	F engines			•		•		•	•	•			•		•	•
86889	Z. International															
Mot. 995 00 00 099 500 	Set of 2 pins (used with engine support plate Mot.792-03).															
	F engines		•	•	•	•	•	•	•	•	•	•	•	•	•	•
84900	Desvil															

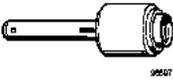
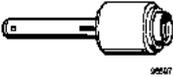
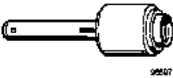
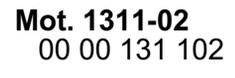
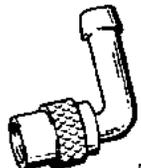
		Engine														
		Twingo	Kangoo	Clio	Clio II	Megane	Megane II	Laguna	Laguna II	Vel Satis	Espace	Espace IV	Avantime	Trafic II	Master	Master Prop
Mot. 996-01 00 00 099 601 	Tool for immobilising injection pump drive gear.															
	F8M F8Q		•	•		•								•		•
92338	Z. International															
Mot. 997-01 00 00 099 701 	Spanner for removing/refitting injector holder fitted with cable. Replaces tool Mot.997.															
	Diesel		•	•	•	•		•	•		•	•		•	•	•
10579	Gillet															
Mot. 998 00 00 099 800 	Extractor for intermediate shaft rings.															
	F8M F8Q F1N F2N F2R F3N F3P F7P			•		•		•		•	•			•		•
86891	Z. International															
Mot. 1010-01 00 00 101 001 	Tool for fitting camshaft seal (seal 22 x 45 x 8) for F engine, petrol, flywheel side. Replaces Mot.1010.															
	F petrol engines					•		•	•	•	•			•		•
96897	Inédit															
Mot. 1011-01 00 00 101 101 	Support for injector holder for removing and adjusting injectors. Replaces tool Mot.1011.															
	F diesel engines		•	•	•	•								•		•
11405	Inédit															
Mot. 1018 00 00 101 800 	8 mm square sump drain spanner.															
		•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
88124	Z. International															
Mot. 1053 00 00 105 300 	Extractor for monobloc injection pump pinion.															
	S8U S9U J8S F8M F8Q		•	•		•					•			•		•
90097	Inédit															

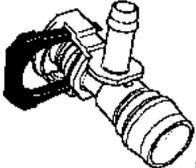
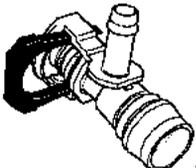
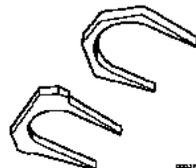
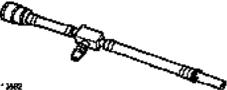
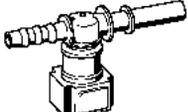
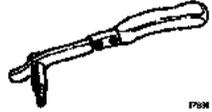
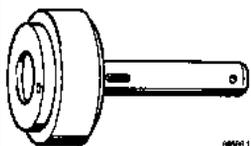
Engine		Twingo	Kangoo	Clio	Clio II	Megane	Megane II	Laguna	Laguna II	Vel Satis	Espace	Espace IV	Avantime	Trafic II	Master	Master Prop
Mot. 1054 00 00 105 400 	Top Dead Centre pin.															
	Engines J and F		•	•	•	•	•	•	•	•	•	•	•	•	•	•
90277	Inédit															
Mot. 1063 00 00 106 300 	Spanner with universal joint for removing/refitting sump mounting bolts.															
	J8S J6R J7R J7T J5R J6T													•		•
90680	Z. International															
Mot. 1079 00 00 107 900 	Complete boxed set for calibrating LUCAS injection pumps.		•	•	•	•								•		•
	J8S - F8M - F8Q - F9Q															
09125	Z. International															
Mot. 1079-01 00 00 107 901 	Stand and gauge for calibrating LUCAS injection pumps. Used with 30 mm travel gauge Mot.1079-02.		•	•	•	•								•		•
	J8S - F8M - F8Q - F9Q															
09125	Z. International															
Mot. 1079-02 00 00 107 902 	Gauge for Mot.1079-01 for calibrating injection pumps.		•	•	•	•								•		•
	J8S - F8M - F8Q - F9Q															
91285	Z. International															
Mot. 1127-01 00 00 112 701 	Tool for fitting camshaft seal (seal 30 x 42 x 7) on E engine, timing side. Replaces Mot.1127.		•	•	•	•										•
	E engines															
97628	Inédit															
Mot. 1128-01 00 00 112 801 	Tool for fitting crankshaft seal (35 x 4 x 7 seal) on E engine, timing side. Replaces Mot.1128.		•	•	•	•										•
	E engines															
92658-S	Inédit															

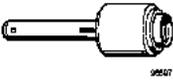
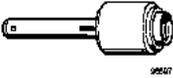
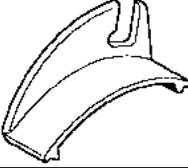
Engine		Twingo	Kangoo	Clio	Clio II	Megane	Megane II	Laguna	Laguna II	Vel Satis	Espace	Espace IV	Avantime	Trafic II	Master	Master Prop
Mot. 1129-01 00 00 112 901 	Tool for fitting crankshaft seal (seal 80 x 100 x 8), flywheel side. Replaces Mot.259-01, Mot.1129 & Mot.1172 tools.															
	E engines		•	•	•											•
96898-1	Inedit															
Mot. 1129-02 00 00 112 902 	Tool for fitting crankshaft seal, flywheel side. Supplements Mot.1129-01.															
	C engines			•										•		•
97872	Inedit															
Mot. 1131 00 00 113 100 	For immobilising injection pump drive gear.															
	F8Q		•	•		•								•		•
92871	Gillet															
Mot. 1135-01 00 00 113 501 	Timing gear belt tensioner tool.															
	S8U S9U J6R J7R J7T J5R J6T E6J E5F E7F E7J F7R		•	•		•								•		•
92645-1	Z. International															
Mot. 1157 00 00 115 700 	For fitting camshaft seal, timing side.															
	J6R J7R J7T J5R J6T													•		•
80259	Luneray															
Mot. 1159-03 00 00 115 903 	Engine support on right hand side member for carrying out repairs without removing engine.															
			•	•	•	•										•
18233	SPX															
Mot. 1160 00 00 116 000 	Crimpers for accelerator cable nipples (spare part).															
	Engines Z, J, F, E, C		•	•	•	•	•	•	•	•	•	•	•	•	•	•
92929	Gillet															

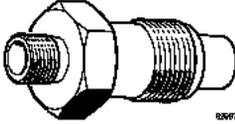
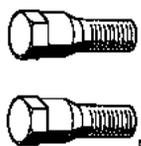
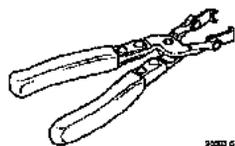
		Engine														
		Twingo	Kangoo	Clio	Clio II	Mégane	Mégane II	Laguna	Laguna II	Vel Satis	Espace	Espace IV	Avantime	Trafic II	Master	Master Prop
Mot. 1199-01 00 00 119 901 	Exhaust pipe cutter. Ø35/50 mm diameter & Ø50/65 mm diameter. Complete boxed set. Replaces tool Mot.1199.	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
	All types															
	14747 Gillet															
Mot. 1200-01 00 00 120 001 	For immobilising injection pump drive gear.		•	•	•	•		•			•			•	•	•
	F8Q - F9Q															
	14233 Gillet															
Mot. 1200-02 00 00 120 002 	Injection pump pulley immobiliser.		•		•	•	•	•	•		•	•		•	•	•
	F8Q RAM pulley - F9Q CR															
	21563 One-Too															
Mot. 1202-01 00 00 120 201 	Circlip pliers, (large model). Replace pliers Mot.1202.	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
	All types															
	40005 Gillet															
Mot. 1202-02 00 00 120 202 	Circlip pliers (small model).	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
	All types															
	40006 Gillet															
Mot. 1214 00 00 121 400 	BISCHOFF exhaust pipe circlip pliers.			•				•	•						•	
	40017 Gillet															
Mot. 1224 00 00 122 400 	Extractor for injection pump pinion with detachable hub.	•	•			•		•					•		•	
	F8Q															
	13596 Inédit															

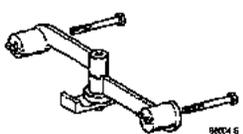
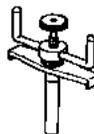
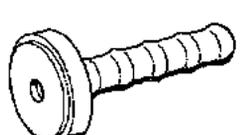
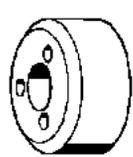
		Engine														
		Twingo	Kangoo	Clio	Clio II	Megane	Megane II	Laguna	Laguna II	Vel Satis	Espace	Espace IV	Avantime	Trafic II	Master	Master Prop
Mot. 1241 00 00 124 100 	Adapter for checking compression.															
	J8S F8Q G8T		•	•		•		•			•			•		•
	Z. International															
86977-1																
Mot. 1258 00 00 125 800 	BOSCH turbocharger compensator repair kit.															
	Specific to RENAULT Injection Centre															
	Desvii															
96313																
Mot. 1265 00 00 126 500 	Pliers for removing quick release fuel pipe unions (Legris and Raymond), Ø8 mm diameter.															
	Petrol engines	•	•	•		•		•			•					•
	Gillet															
96420-R1																
Mot. 1265-01 00 00 126 501 	Pliers for removing quick release fuel pipe unions (Legris and Raymond), Ø10 mm diameter.															
	Diesel engines		•			•		•			•					•
	Gillet															
96420-R1																
Mot. 1272 00 00 127 200 	Engine stand positioning jig.															
	C3G		•													•
	Devaudel															
96524																
Mot. 1280-01 00 00 128 001 	Oil filter cover, Ø86 mm diameter.															
	Engines C - E - F - J - Z	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
	Inédit															
97160																
Mot. 1281-01 00 00 128 101 	Oil filter cover, Ø96 mm diameter.															
	Engines F - J - S		•								•	•		•	•	•
	Inédit															
97160																

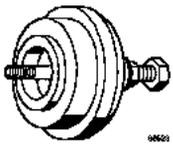
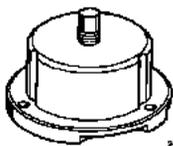
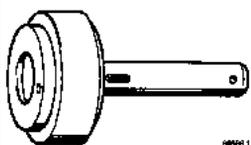
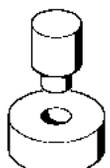
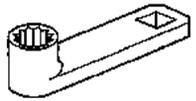
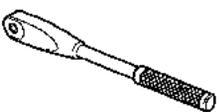
		Engine														
		Twingo	Kangoo	Clio	Clio II	Megane	Megane II	Laguna	Laguna II	Vel Satis	Espace	Espace IV	Avantime	Trafic II	Master	Master Prop
Mot. 1298 00 00 129 800  <small>96897</small>	For fitting crankshaft seal, timing side. Replaces Mot.789.															
	J8S J6R J7R J7T J5R J6T															
96897	Inédit															
Mot. 1299 00 00 129 900  <small>96897</small>	Tool for fitting intermediate bearing seal. Replaces Mot.790.															
	J8S J6R J7R J7T J5R J6T															
96897	Inédit															
Mot. 1300 00 00 130 000  <small>96897</small>	Tool for refitting camshaft seal. Replaces Mot.791.															
	J8S J6R J7T J5R J6T															
96897	Inédit															
Mot. 1301 00 00 130 100  <small>17772</small>	T punch for DESVIL stand, additional to Mot.792-03. Used with two D pins.															
	G8 - G9															
17772	Desvil															
Mot. 1311-01 00 00 131 101  <small>14213</small>	Pressure gauges and connectors for measuring petrol pressure.															
14213	Inédit															
Mot. 1311-02 00 00 131 102  <small>98548-1</small>	Set of spare fuel pressure measuring connectors. Connectors: A-B-C-D-F-H-I.															
	Devauzel															
Mot. 1311-03 00 00 131 103  <small>98548-1</small>	l connector for measuring petrol pressure.															
	N engines															
98548-1	Z. International															

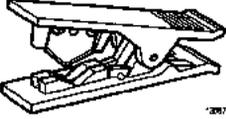
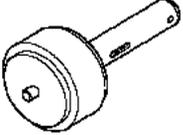
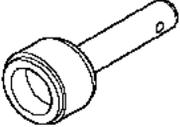
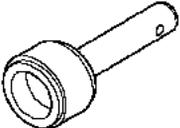
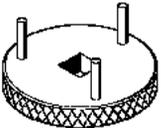
Engine		Twingo	Kangoo	Clio	Clio II	Megane	Megane II	Laguna	Laguna II	Vel Satis	Espace	Espace IV	Avantime	Trafic II	Master	Master Prop
Mot. 1311-04 00 00 131 104  <small>99376</small>	J connector for measuring fuel pressure.															
	K engines		•		•	•	•	•	•	•		•				•
	Norma															
Mot. 1311-05 00 00 131 105  <small>99376</small>	K connector for measuring fuel pressure.															
	D engines	•	•	•	•											•
	Norma															
Mot. 1311-06 00 00 131 106  <small>99375</small>	Tool for removing petrol pressure connectors.															
	Engines D - K - L7X	•	•	•	•	•	•	•	•	•	•	•	•			•
	Norma															
Mot. 1311-07 00 00 131 107  <small>13592</small>	Quick connector for taking petrol pressure.															
	Engines F - Z					•	•	•	•	•	•	•	•		•	•
	Gillet															
Mot. 1311-08 00 00 131 108  <small>17635</small>	Connector for measuring fuel pressure.															
	F9Q CR					•	•	•	•	•	•	•			•	•
	Gillet															
Mot. 1312 00 00 131 200  <small>97836</small>	Tool for adjusting timing belt tensioner.															
	G8T								•			•				•
	Gillet															
Mot. 1313 00 00 131 300  <small>96898-1</small>	Tool for fitting crankshaft seal, flywheel side (93 x 108 x 7).															
	G8 - G9								•			•				•
	Inédit															

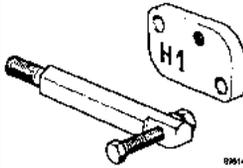
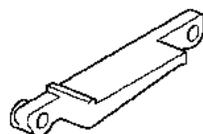
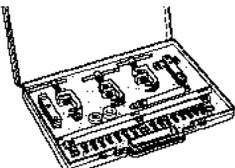
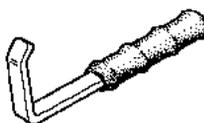
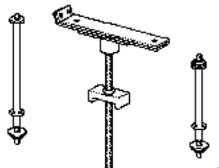
		Engine														
		Twingo	Kangoo	Clio	Clio II	Mégane	Mégane II	Laguna	Laguna II	Vel Satis	Espace	Espace IV	Avantime	Trafic II	Master	Master Prop
Mot. 1314 00 00 131 400 	Tool for fitting crankshaft seal, timing side (46 x 59 x 7 seal).															
	G8T															
96897	Inédit															
Mot. 1315 00 00 131 500 	Tool for fitting camshaft seal (33 x 43 x 7 and 33 x 44 x 7 seals).															
	G8T															
96897	Inédit															
Mot. 1316 00 00 131 600 	Tool for immobilising flywheel.															
	Engines G8 - G9															
97922-S1	Z. International															
Mot. 1317 00 00 131 700 	Tool for immobilising injection pump pinion.															
	G8T															
10096	Z. International															
Mot. 1319 00 00 131 900 	Gauge for measuring height of crankpins.															
	Engines G8 - G9															
97857	Z. International															
Mot. 1319-01 00 00 131 901	Gauge for measuring height of crankpins.															
	F9 - G8 - G9 - K9 engines															
Mot. 1324 00 00 132 400 	Tool for aligning water pump/alternator pulleys.															
	C3G															
97885	Z. International															

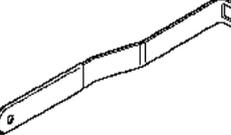
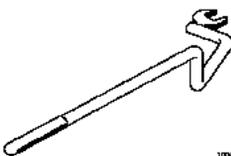
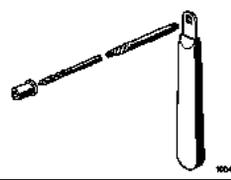
		Engine														
		Twingo	Kangoo	Clio	Clio II	Megane	Megane II	Laguna	Laguna II	Vel Satis	Espace	Espace IV	Avantime	Trafic II	Master	Master Prop
Mot. 1326 00 00 132 600 	Adapter for checking compression.															
	S8U															
92987	Luneray															
Mot. 1327 00 00 132 700 	Pressure gauge - 1 bar + 1.5 bar. Addition to Mot.1311-01.															
97835	IMTP															
Mot. 1328 00 00 132 800 	Pressure gauge 0-10 bar. Addition to Mot.1311-01.															
97835	IMTP															
Mot. 1329 00 00 132 900 	Oil filter cover, Ø76 mm diameter.															
	Air conditioning															
97160	Inédit															
Mot. 1330 00 00 133 000 	Oil filter cover, Ø66 mm diameter.															
	D engines															
97160	Inédit															
Mot. 1334 00 00 133 400 	Set of two bolts for centring flywheel.															
	S8 - S9															
98335-S	Z. International															
Mot. 1335 00 00 133 500 	Pliers for removing valve stem seals.															
98503-S	Gillet															

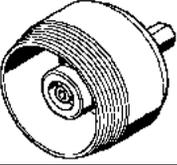
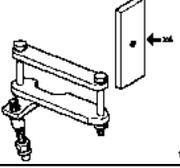
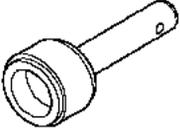
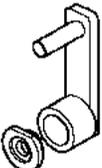
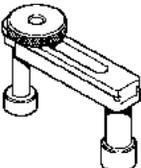
		Engine														
		Twingo	Kangoo	Clio	Clio II	Megane	Megane II	Laguna	Laguna II	Vel Satis	Espace	Espace IV	Avantime	Trafic II	Master	Master Prop
Mot. 1336 00 00 133 600 	Set of two pins, U and V type, for engine support. Used with a D pin.															
	N7Q - N7U															
40016	Desvii															
Mot. 1337 00 00 133 700 	Tool for adjusting camshaft.															
	N7Q - N7U															
98504-S	Gillet															
Mot. 1339 00 00 133 900 	Tool for compressing cylinder head cover.															
	N7Q - N7U															
98524	Desvii															
Mot. 1340 00 00 134 000 	Top Dead Centre pin.															
	N7Q - N7U															
98550	Z. International															
Mot. 1341 00 00 134 100 	Tool for centring connecting rod bearings.															
	N7Q - N7U															
98501-S	Z. International															
Mot. 1342 00 00 134 200 	Tool for fitting oil pump seal, timing side (35 x 47 x 6 seal).															
	N7Q - N7U															
98499-S	Inédit															
Mot. 1343 00 00 134 300 	Tool for fitting camshaft seal, timing side.															
	N7Q - N7U															
98500-S	Celette															

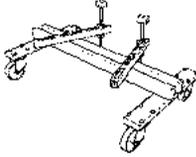
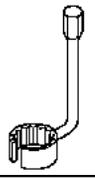
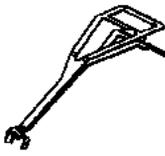
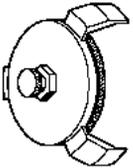
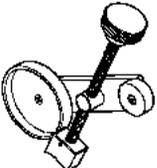
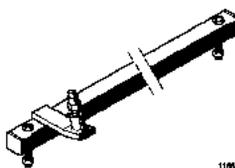
		Engine														
		Twingo	Kangoo	Clio	Clio II	Mégane	Mégane II	Laguna	Laguna II	Vel Satis	Espace	Espace IV	Avantime	Trafic II	Master	Master Prop
Mot. 1344 00 00 134 400  <small>98523</small>	Tool for fitting camshaft seal. 30 x 47 x 7 seal, flywheel side.															
	N7Q - N7U															
Devaudel																
Mot. 1345 00 00 134 500  <small>98520</small>	Tool for fitting left hand camshaft plug, flywheel side.															
	N7Q															
Inédit																
Mot. 1346 00 00 134 600  <small>96898-1</small>	Tool for fitting crankshaft seal, 96 x 110 x 7 seal.															
	N7Q - N7U															
Inédit																
Mot. 1347 00 00 134 700  <small>11821</small>	Tool for compressing timing chain tensioner.															
	N7Q - N7U															
Desvii																
Mot. 1348 00 00 134 800  <small>98518-S</small>	Tool for tensioning belt.															
	N7Q - N7U															
Gillet																
Mot. 1349 00 00 134 900  <small>98522</small>	13mm offset flat ring spanner for torque wrench.															
	N7Q - N7U															
Vautrin																
Mot. 1351 00 00 135 100  <small>99515</small>	Ratchet spanner, Torx 8 female.															
	G8T phase 1															
Gillet																

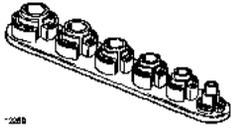
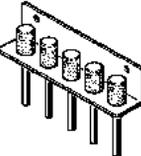
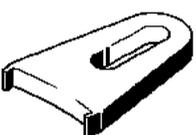
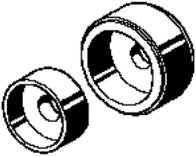
		Engine														
		Twingo	Kangoo	Clio	Clio II	Mégane	Mégane II	Laguna	Laguna II	Vel Satis	Espace	Espace IV	Avantime	Trafic II	Master	Master Prop
Mot. 1352 00 00 135 200 	Tool for cutting petrol pipe.	•	•	•	•	•		•	•		•			•		•
	13587	Devaudel														
Mot. 1354 00 00 135 400 	Tool for fitting crankshaft seal, 70 x 86 x 8.	•	•	•	•											•
	99516	D engines Inédit														
Mot. 1355 00 00 135 500 	Tool for fitting oil pump seal, 32 x 44 x 6.	•	•	•	•											•
	99517	D engines Inédit														
Mot. 1356 00 00 135 600 	Tool for fitting crankshaft seal, 32 x 42 x 7.	•	•	•	•											•
	99517	D engines Inédit														
Mot. 1357 00 00 135 700 	Tool for extracting injection pump pulley.		•	•	•	•		•	•	•				•		•
	99328	F8Q - F9Q Inédit														
Mot. 1358-01 00 00 135 801 	RAM pulley adjustment spanner. Calibration of injection pump equipped with micrometric adjustment pulley.		•	•	•	•		•	•	•				•		•
	99329	F8Q - F9Q Inédit														
Mot. 1359 00 00 135 900 	Socket for tightening injection pump pulley.		•	•	•	•		•		•				•		•
	99330	F8Q - F9Q Inédit														

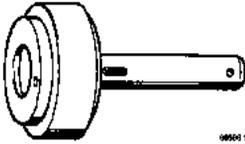
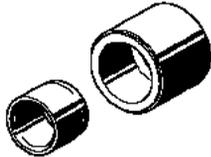
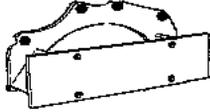
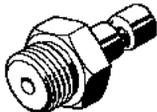
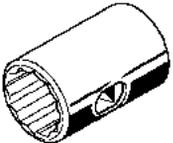
		Engine														
		Twingo	Kangoo	Clio	Clio II	Megane	Megane II	Laguna	Laguna II	Vel Satis	Espace	Espace IV	Avantime	Trafic II	Master	Master Prop
Mot. 1360 00 00 136 000 	W pin and H1 plate for engine mounting, fits on DESVIL stand.															
	D engines	•	•	•	•											•
99814	Desvii															
Mot. 1360-01 00 00 136 001 	W1 pin, replaces W pin of Mot.1360.															
	D engines	•	•	•	•											•
17772	Desvii															
Mot. 1364 00 00 136 400 	Tool for immobilising intermediate shaft pinion.															
	F engines, all types		•	•		•		•			•		•		•	•
99514	Z. International															
Mot. 1366 00 00 136 600 	Tooling for removing valve adjusters and springs. (Complete box).															
	Engines F, N - 16V		•	•	•	•		•			•		•		•	•
99543	Z. International															
Mot. 1366-01 00 00 136 601 	Tool for removing/refitting valve adjusters (F engines fitted with smooth pushrods, except 16 S).															
	F engines except 16 S		•	•	•	•	•	•	•	•	•		•	•	•	•
11231	Z. International															
Mot. 1367 00 00 136 700 	Bar for supporting engine for cylinder head replacement.															
						•		•	•		•		•		•	•
99880	Desvii															
Mot. 1367-02 00 00 136 702 	Engine support, supplements engine support Mot.1367.															
								•	•	•		•			•	•
19851	Gillet															

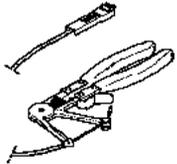
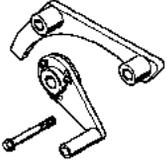
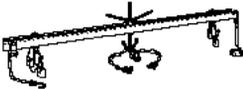
		Engine	Twingo	Kangoo	Clio	Clio II	Megane	Megane II	Laguna	Laguna II	Vel Satis	Espace	Espace IV	Avantime	Trafic II	Master	Master Prop
Mot. 1368 00 00 136 800  <small>10041</small>	Tool for tightening accessories belt gear tensioner bolts. 8 mm Torx wrench and 12.7 mm square drive.																
	G8T air conditioning																
Mot. 1369 00 00 136 900  <small>10037</small>	Accessories belt gear tensioner.																
	G8T air conditioning																
Mot. 1370 00 00 137 000  <small>10035</small>	19 mm offset wrench for compressing gear tensioner.																
	G8T air conditioning																
Mot. 1372 00 00 137 200  <small>10040</small>	Kit to extract self-shearing bolts from injection pump.																
	Diesel engines																
Mot. 1372-02 00 00 137 202  <small>13546</small>	Drill for replacing coded solenoid valve.																
	Lucas & Bosch pumps																
Mot. 1374 00 00 137 400  <small>10039</small>	Tool for extracting oil pump seal.																
	D engines																
Mot. 1376 00 00 137 600  <small>10036</small>	17 mm gauge rod for checking accessories belt tensioner.																
	G8T air conditioning																

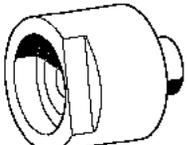
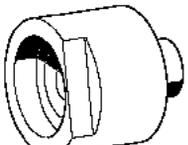
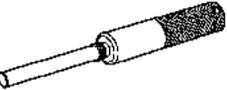
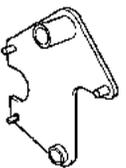
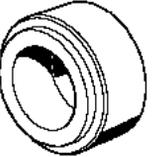
		Engine														
		Twingo	Kangoo	Clio	Clio II	Megane	Megane II	Laguna	Laguna II	Vel Satis	Espace	Espace IV	Avantime	Trafic II	Master	Master Prop
Mot. 1377 00 00 137 700 	Tool for extracting crankshaft seal, 80 x 70 x 8.															
	D engines	•	•	•	•											•
10158	Inédit															
Mot. 1378 00 00 137 800 	Pins X and Y used with pin A; fit on DESVIL stand.															
	K engines		•		•	•	•	•	•							•
40016	Desvil															
Mot. 1379 00 00 137 900 	Tool for supporting engine for working on cylinder head.															
	D engines			•												•
10581	Desvil															
Mot. 1381 00 00 138 100 	Tool for extracting camshaft seal, 30 x 42 x 7.															
	D engines	•	•	•	•											•
10039	Inédit															
Mot. 1385 00 00 138 500 	Tool for fitting crankshaft seal, 35 x 47x 7, timing side.															
	K engines		•		•	•		•								•
99517	Inédit															
Mot. 1386 00 00 138 600 	Tool for pre-tensioning timing belt.															
	D7F	•	•	•	•											•
10885	Gillet															
Mot. 1387-01 00 00 138 701 	Tool for checking tension of accessories belt. Engines fitted with automatic tensioner.															
		•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
11923	Inédit															

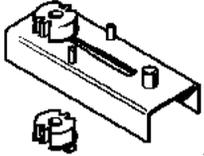
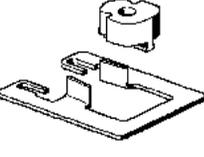
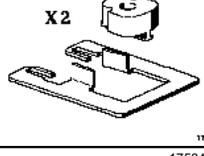
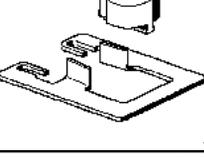
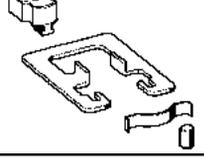
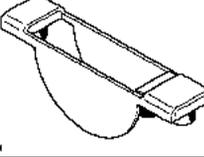
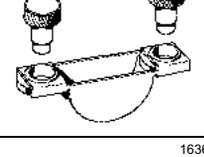
		Engine														
		Twingo	Kangoo	Clio	Clio II	Megane	Megane II	Laguna	Laguna II	Vel Satis	Espace	Espace IV	Avantime	Trafic II	Master	Master Prop
Mot. 1388 00 00 138 800 	Tool for centring target plate drive plate. D & automatic transmission MB3 engines															
	<small>11660</small> Desvii															
Mot. 1390 00 00 139 000 	Support for removing/refitting engine-gearbox assembly.															
	<small>17765</small> Gillet															
Mot. 1394 00 00 139 400 	Spanner for removing/refitting pressure switch. (2x6 sides 27 mm across the flats).															
	<small>11658</small> Vautrin															
Mot. 1395-01 00 00 139 501 	Pliers for unclipping heater matrix couplings. Replaces Mot.1395.															
	<small>40008</small> Gillet															
Mot. 1397 00 00 139 700 	Universal spanner for removing fuel gauge nut. Replaces Mot 1221, Mot.1242 and Mot.1264-01.															
	<small>12156</small> Inédit															
Mot. 1398 00 00 139 800 	Accessories belt tensioner. F3P - F3R air conditioning															
	<small>11429</small> Z. International															
Mot. 1399 00 00 139 900 	Engine support for working on cylinder head. D7F															
	<small>11661</small> Vautrin															

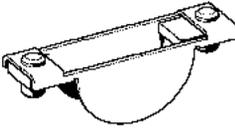
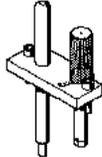
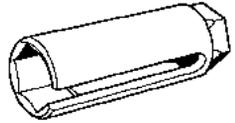
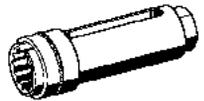
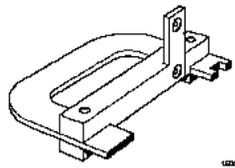
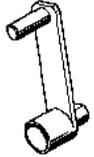
		Engine	Twingo	Kangoo	Clio	Clio II	Megane	Megane II	Laguna	Laguna II	Vel Satis	Espace	Espace IV	Avantime	Trafic II	Master	Master Prop
Mot. 1410 00 00 141 000 		Tool kit for releasing unions on air conditioning hoses (dimensions in inches): 5/16, 3/8, 1/2, 5/8, 3/4, 7/8.							•	•						•	•
	12269	Gillet															
Mot. 1423 00 00 142 300 		Tool for removing silicon coated crankshaft bearing caps.			•	•	•	•	•	•	•	•	•			•	•
	12875	Z. International	Engines F - J														
Mot. 1429 00 00 142 900 		Fork for setting belt tensioner.							•	•							•
	13289	Devaudel	L7X														
Mot. 1430 00 00 143 000 		Set of five setting pins for camshaft and crankshaft pulleys.			•	•		•	•	•							•
	13293	Gillet	Engines L7X - K9														
Mot. 1430-01 00 00 143 001 		Pin for checking setting of camshaft and crankshaft pulleys.							•	•							•
	13292	Gillet	L7X														
Mot. 1431 00 00 143 100 		Tool for locking flywheel.							•	•	•	•	•				•
	13284	Vautrin	L7X														
Mot. 1432 00 00 143 200 		Camshaft seal fitting tool.							•	•							•
	13286	Devaudel	L7X														

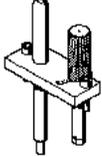
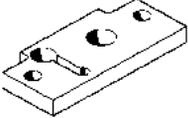
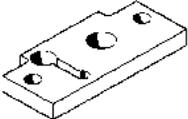
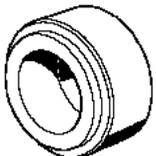
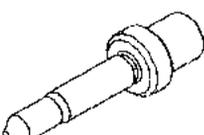
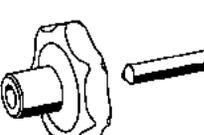
		Engine														
		Twingo	Kangoo	Clio	Clio II	Megane	Megane II	Laguna	Laguna II	Vel Satis	Espace	Espace IV	Avantime	Trafic II	Master	Master Prop
Mot. 1433 00 00 143 300 	Crankshaft seal fitting tool, flywheel end.															
	L7X															
96898-1	Inedit															
Mot. 1434 00 00 143 400 	Crankshaft seal fitting tool, timing end.															
	L7X															
13287	Devaudel															
Mot. 1435 00 00 143 500 	Engine support; fits on DESVIL stand.															
	L7X															
12950	Desvil															
Mot. 1436 00 00 143 600 	Pin for locking belt.															
	L7X															
13288	Gillet															
Mot. 1437 00 00 143 700 	Oil pressure take-off connector.															
	L7X															
13291	Z. International															
Mot. 1438 00 00 143 800 	M1 pin, can be fitted on DESVIL stand.															
	S engines															
17772	Desvil															
Mot. 1440 00 00 144 000 	Tool for removing/refitting altitude corrector.															
	Diesel engines															
13599	Vautrin															

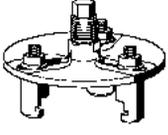
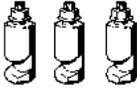
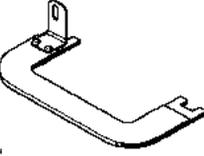
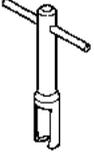
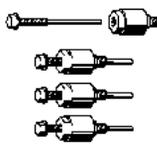
		Engine														
		Twingo	Kangoo	Clio	Clio II	Megane	Megane II	Laguna	Laguna II	Vel Satis	Espace	Espace IV	Avantime	Trafic II	Master	Master Prop
Mot. 1441 00 00 144 100 	Socket for removing/refitting coded solenoid valve.															
	Diesel engines fitted with Lucas pump		•		•	•									•	•
14031	Vautrin															
Mot. 1448 00 00 144 800 	Remote operated pliers for elastic clips.	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
13476	Gillet															
Mot. 1449 00 00 144 900 	Punch for fitting blanking ball on cylinder head.		•	•	•	•	•	•	•							
	F Diesel engines replacement cylinder head		•	•	•	•	•	•	•			•		•	•	•
14352	Gillet															
Mot. 1452 00 00 145 200 	Tool for locking flywheel.															
	S engines															•
13931	Z. International															
Mot. 1453 00 00 145 300 	Engine support for multiple adjustments with restraining strap.	•	•	•	•	•	•	•	•				•		•	•
13641	Gillet															
Mot. 1453-01 00 00 145 301 	Additional wheelbrace nut for Mot.1453 engine lifting support.															
															•	•
21567	SPX															
Mot. 1455 00 00 145 500 	Tool for removing tamperproof pins from injection pumps.		•		•	•			•	•				•		•
	F8Q - G8T - S8U - S9U Lucas & Bosch pumps		•		•	•			•	•				•		•
14999	Vautrin															

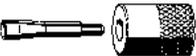
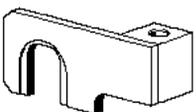
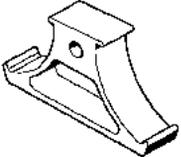
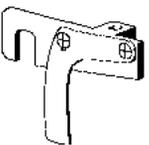
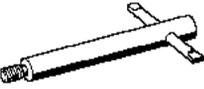
		Engine														
		Twingo	Kangoo	Clio	Clio II	Megane	Megane II	Laguna	Laguna II	Vel Satis	Espace	Espace IV	Avantime	Trafic II	Master	Master Prop
Mot. 1485 00 00 148 500  <small>14859</small>	Tool for removing piston coolers.				•	•					•					•
	Engines K - F															
	Z. International															
Mot. 1485-01 00 00 148 501  <small>15868</small>	Tool for removing piston coolers.				•	•	•	•	•		•	•		•		•
	Engines K - F															
	Z. International															
Mot. 1487 00 00 148 700  <small>14926</small>	Tool for removing camshaft covers, Ø57 mm diameter.				•	•	•	•	•		•	•		•	•	
	Engines K4 - F4															
	Z. International															
Mot. 1488 00 00 148 800  <small>14926</small>	Tool for removing camshaft covers, Ø43 mm diameter.				•	•	•	•	•		•	•		•	•	
	Engines K4 - F4															
	Z. International															
Mot. 1489 00 00 148 900  <small>14924</small>	Top Dead Centre pin.		•	•	•	•	•	•	•							•
	K engines															
	Z. International															
Mot. 1490-01 00 00 149 001  <small>14922</small>	Tool for locking and setting the camshaft pulleys.		•	•	•	•	•	•	•							•
	K4 engines															
	Gillet															
Mot. 1491 00 00 149 100  <small>14925</small>	Tool for fitting camshaft seals.				•	•	•	•	•							•
	K4 engines															
	Inédit															

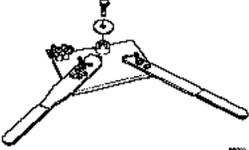
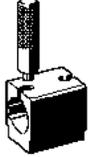
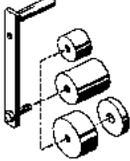
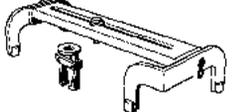
		Engine	Twingo	Kangoo	Clio	Clio II	Megane	Megane II	Laguna	Laguna II	Vel Satis	Espace	Espace IV	Avantime	Trafic II	Master	Master Prop
Mot. 1492 00 00 149 200  <small>15867</small>	Tool for refitting conrod bearings.		•	•	•	•	•	•	•	•	•	•	•	•	•	•	
Mot. 1492-01 00 00 149 201  <small>17584</small>	Adaptor kit for fitting split conrod bearings. F9Q Gillet			•	•	•	•	•	•							•	•
Mot. 1492-02 00 00 149 202  <small>17584-1</small>	Adaptor kit for fitting split conrod bearings. Ø 48 mm & Ø 53 mm. G9T - G9U Gillet								•	•	•	•	•		•	•	
Mot. 1492-03 00 00 149 203  <small>17584</small>	Adaptor kit for fitting split conrod bearings. K9 engines Gillet		•		•		•									•	
Mot. 1492-04 00 00 149 204  <small>19950</small>	Adaptor kit for fitting split conrod bearings. D4 engines Gillet		•	•	•											•	
Mot. 1493 00 00 149 300  <small>15866</small>	Tool for centring crankshaft bearings. F engines Gillet		•	•	•	•	•	•	•	•	•	•	•	•	•	•	
Mot. 1493-01 00 00 149 301  <small>16360</small>	Tool for centring crankshaft bearings. Engines K4 - K7 Gillet				•	•	•	•	•							•	

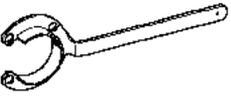
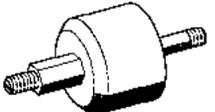
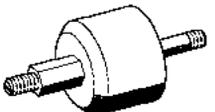
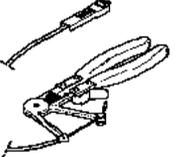
		Engine														
		Twingo	Kangoo	Clio	Clio II	Megane	Megane II	Laguna	Laguna II	Vel Satis	Espace	Espace IV	Avantime	Trafic II	Master	Master Prop
Mot. 1493-02 00 00 149 302 	Tool for centring crankshaft bearings.															
	D4 engines	•	•		•											•
19951	Gillet															
Mot. 1494 00 00 149 400 	Tool for refitting piston coolers.															
	Engines K4 - K7		•		•	•	•	•	•							•
15863	Inédit															
Mot. 1495 00 00 149 500 	22 mm socket for removing/refitting oxygen sensors. 1/2 square drive & 24 mm Allen key.															
					•	•		•	•		•					•
14923	Gillet															
Mot. 1495-01 00 00 149 501 	22 mm socket for removing-refitting oxygen sensors. 1/2 square drive & 24 mm Allen key.															
	F4R								•		•		•	•	•	•
21566	Gillet															
Mot. 1496 00 00 149 600 	Camshaft locking tool for setting timing.															
	Engines K4 - F4					•	•	•	•	•	•	•	•	•	•	•
15004	Inédit															
Mot. 1501 00 00 150 100 	Tool for pre-tensioning timing belt.															
	Engines E - K7M	•	•	•	•											•
15031	Inédit															
Mot. 1502 00 00 150 200 	Tool for removing valve stem keys.															
	F5R - P9X					•			•	•		•				•
16088	Facom															

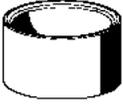
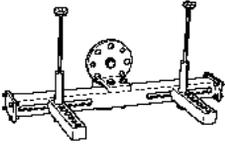
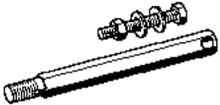
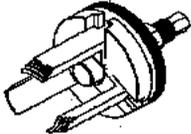
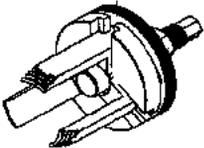
		Engine	Twingo	Kangoo	Clio	Clio II	Megane	Megane II	Laguna	Laguna II	Vel Satis	Espace	Espace IV	Avantime	Trafic II	Master	Master Prop	
Mot. 1513 00 00 151 300 	Tool for refitting solenoid valve lip seal of the camshaft dephaser.																	
	F4R - F4P						•	•	•	•	•	•	•	•			•	•
15860	Facom																	
Mot. 1516 00 00 151 600 	Tool for refitting piston coolers (slanting at 5°).		•															
	F engines						•	•	•	•		•						•
15863	Inédit																	
Mot. 1516-01 00 00 151 601 	Tool for refitting piston coolers (slanting at 3°). Supplements Mot.1516.																	
	F9Q CR						•	•	•	•		•						•
17586	Inédit																	
Mot. 1516-02 00 00 151 602 	Tool for refitting piston coolers (slanting at 0°). Supplements Mot.1516.																	
	F9Q 750						•	•	•	•		•						•
17586	Inédit																	
Mot. 1517 00 00 151 700 	Tool for fitting camshaft seal, inlet side.																	
	F4R - F4P						•	•	•	•	•	•	•	•				•
14925	Z. International																	
Mot. 1520 00 00 152 000 	Pin for setting EPIC pump.		•															
	F8Q						•											•
40009	Inédit																	
Mot. 1522 00 00 152 200 	Tool for setting LUCAS EPIC pump.		•															
	F8Q						•											•
40010	Z. International																	

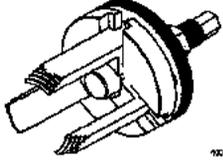
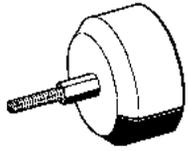
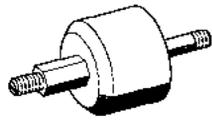
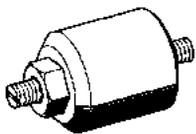
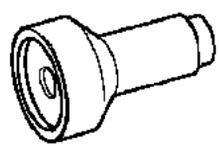
		Engine														
		Twingo	Kangoo	Clio	Clio II	Megane	Megane II	Laguna	Laguna II	Vel Satis	Espace	Espace IV	Avantime	Trafic II	Master	Master Prop
Mot. 1525 00 00 152 500 	Tool for extracting injection pump pinion with tapered hub.															
	F8Q		•		•	•	•	•	•			•		•	•	•
17588	Gillet															
Mot. 1525-01 00 00 152 501 	Adaptor claws for extractor Mot.1525. (for 56-tooth pulley).															
	F9Q CR					•		•	•			•			•	•
17589	Gillet															
Mot. 1525-02 00 00 152 502 	Adaptor claws for Mot.1525.															
	K9 engines		•		•		•									•
17589	Gillet															
Mot. 1525-03 00 00 152 503 	Adaptor claws for extractor Mot.1525. (for 33-tooth pulley).															
	F9Q						•									•
17589	Gillet															
Mot. 1526 00 00 152 600 	Camshaft locking tool for setting timing.															
	F5R direct petrol Injection					•			•							•
15861	Gillet															
Mot. 1530 00 00 153 000 	Tool for extracting petrol injectors.															
	F5R direct petrol injection					•			•							•
16630	Inédit															
Mot. 1532 00 00 153 200 	Fuel gallery extraction unit. Direct Petrol Injection.															
	F5R direct petrol injection					•			•							•
16601	Facom															

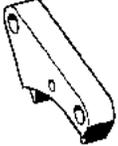
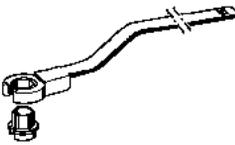
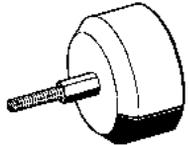
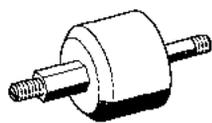
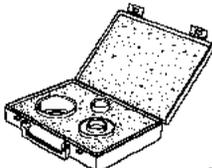
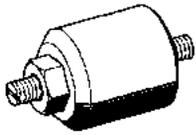
		Engine														
		Twingo	Kangoo	Clio	Clio II	Mégane	Mégane II	Laguna	Laguna II	Vel Satis	Espace	Espace IV	Avantime	Trafic II	Master	Master Prop
Mot. 1533 00 00 153 300 	Tool for fitting and pretensioning injector seals. Direct Petrol Injection.					•			•							•
	F5R direct petrol injection															
16372	Facom															
Mot. 1534 00 00 153 400 	Inlet camshaft setting tool.								•	•	•	•	•		•	•
	G9T															
17552	Inédit															
Mot. 1535 00 00 153 500 	Tool for clamping camshaft pulleys.					•			•							•
	F5R direct petrol injection															
15862	Z. International															
Mot. 1536 00 00 153 600 	Top dead centre timing pin. Replaces Mot.1318.								•	•	•	•	•		•	•
	G9 - G8 engines.															
17915	Inédit															
Mot. 1537 00 00 153 700 	Exhaust camshaft setting tool.								•	•	•	•	•		•	•
	G9 engines															
17551	Inédit															
Mot. 1538 00 00 153 800 	Pin for immobilising high pressure pump pinion.								•	•	•	•	•		•	•
	G9 engines															
20329	Z. International															
Mot. 1539 00 00 153 900 	Tool for locking intermediate shaft pinion.								•	•	•	•	•		•	•
	G9 engines															
20328	Z. International															

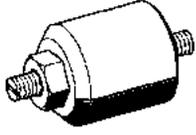
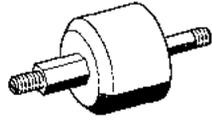
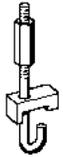
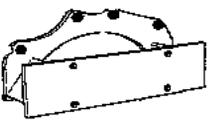
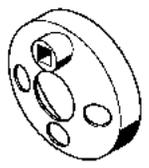
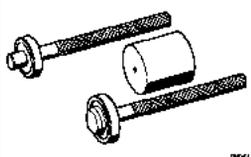
		Engine														
		Twingo	Kangoo	Clio	Clio II	Megane	Megane II	Laguna	Laguna II	Vel Satis	Espace	Espace IV	Avantime	Trafic II	Master	Master Prop
Mot. 1540 00 00 154 000  <small>19620</small> 20200	Tool for aligning wear compensation pinion teeth.															
	G9 engines									•	•	•	•	•	•	•
	SPX															
Mot. 1541 00 00 154 100  <small>19674</small> 19674	Tool for refitting oil deflector on crankshaft sprocket.															
	G9 engines									•	•	•	•	•	•	•
	Gillet															
Mot. 1542 00 00 154 200  <small>19673</small> 19673	Tool for refitting pins on intermediate pinion shafts.															
	G9 engines									•	•	•	•	•	•	•
	Gillet															
Mot. 1543 00 00 154 300  <small>16563-1</small> 16563-1	Tool for pre-tensioning timing belt.															
	F engines	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
	Inedit															
Mot. 1548 00 00 154 800  <small>18267</small> 18267	High pressure pump or pinion extractor.															
	G9 engines									•	•	•	•	•	•	•
	Gillet															
Mot. 1549 00 00 154 900  <small>17549</small> 17549	Injector extractor.															
	G9 engines									•	•	•	•	•	•	•
	Z. International															
Mot. 1551 00 00 155 100  <small>17585</small> 17585	Oil return pipe fitting tool.															
	F9Q					•	•	•	•	•	•	•	•	•	•	•
	Gillet															

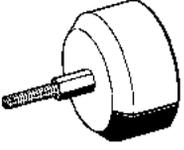
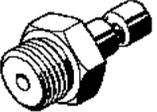
		Engine	Twingo	Kangoo	Clio	Clio II	Megane	Megane II	Laguna	Laguna II	Vel Satis	Espace	Espace IV	Avantime	Trafic II	Master	Master Prop	
Mot. 1555 00 00 155 500  <small>19689</small>	Immobilisation of inlet camshaft pulley with phase-shifter.																	
	L7X				•				•	•		•					•	
	SPX																	
Mot. 1560 00 00 156 000  <small>18897</small>	Tool for fitting crankshaft seal on timing side.																	
	G9 engines									•	•	•	•	•			•	•
	Z. International																	
Mot. 1561 00 00 156 100  <small>18897</small>	Tool for fitting No. 1 relay shaft seal.																	
	G9 engines									•	•	•	•	•			•	•
	Z. International																	
Mot. 1562 00 00 156 200  <small>18895</small>	Tool for fitting camshaft seal.																	
	G9 engines									•	•	•	•	•			•	•
	Z. International																	
Mot. 1566 00 00 156 600  <small>19672</small>	Spanner for removing high pressure pipes. Replaces Mot.1383.																	
	G9 engines - Diesel All Types																	
	Gillet																	
Mot. 1567 00 00 156 700  <small>13476</small>	Remote handling tongs for Exhaust gas recirculation pipe clips.																	
	Gillet																	
Mot. 1568 00 00 156 800  <small>17917</small>	Template for installing vacuum pump.																	
	F9Q									•							•	
	Z. International																	

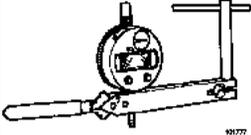
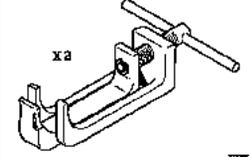
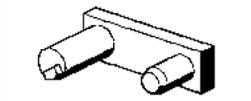
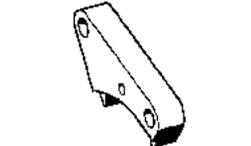
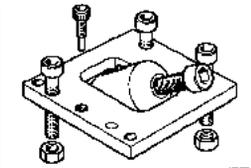
		Engine														
		Twingo	Kangoo	Clio	Clio II	Megane	Megane II	Laguna	Laguna II	Vel Satis	Espace	Espace IV	Avantime	Trafic II	Master	Master Prop
Mot. 1569 00 00 156 900 	Taper for installing pistons equipped with U-FLEX segments.															
	Engines F8Q - F9		•	•	•	•	•	•	•	•	•	•	•	•	•	•
17587	Z. International															
Mot. 1572 00 00 157 200 	Metal foil extractor for Pierburg vacuum pump.															
	F8Q					•		•								•
17916	Inédit															
Mot. 1573 00 00 157 300 	Cylinder head support. Replaces Mot.330-02.	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
17670	Desvil															
Mot. 1574 00 00 157 400 	D1 engine support pin, supplementing Mot.792-03. For DESVIL stand.															
	Engines G8 - G9							•	•	•	•	•	•			•
17772	Desvil															
Mot. 1575 00 00 157 500 	N1 engine support pin, supplementing Mot.792-03. For DESVIL stand.															
	F engines, large face							•	•	•	•	•	•	•	•	•
21565	Inédit															
Mot. 1577 00 00 157 700 	Ø 28 mm to Ø 42 mm lip seal extractor.	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
40011	Inédit															
Mot. 1578 00 00 157 800 	Ø 50 mm to Ø 75 mm lip seal extractor.	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
40012	Inédit															

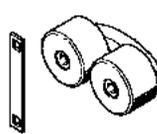
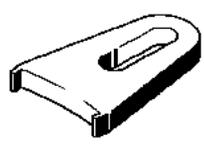
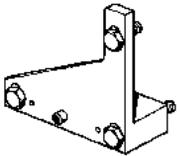
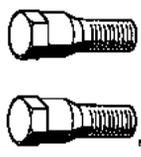
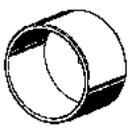
		Engine														
		Twingo	Kangoo	Clio	Clio II	Megane	Megane II	Laguna	Laguna II	Vel Satis	Espace	Espace IV	Avantime	Trafic II	Master	Master Prop
Mot. 1579 00 00 157 900  <small>40013</small>	Ø 80 mm to Ø 95 mm lip seal extractor.															
	All types	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
	Inedit															
Mot. 1585 00 00 158 500  <small>18896</small>	Tool for fitting crankshaft PTFE seal, flywheel end.															
	K9 engines		•		•											•
	Z. International															
Mot. 1586 00 00 158 600  <small>18897</small>	Tool for fitting crankshaft PTFE seal, timing end.															
	K9 engines		•		•											•
	Z. International															
Mot. 1587 00 00 158 700  <small>18895</small>	Tool for fitting camshaft PTFE seal.															
	D4 engines	•	•		•											•
	Z. International															
Mot. 1592 00 00 159 200  <small>21564</small>	Compression test adapter.															
	F9 - K9 engines		•		•	•	•	•	•	•	•	•	•	•	•	•
	SPX															
Mot. 1599 00 00 159 900  <small>20330</small>	Tool for unclipping heater matrix on bulkhead.															
	Gillet															
Mot. 1605 00 00 160 500  <small>20228</small>	For fitting cylinder head cap.															
	D4 engines	•	•		•											•
	Z. International															

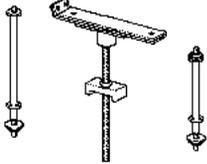
		Engine	Twingo	Kangoo	Clio	Clio II	Megane	Megane II	Laguna	Laguna II	Vel Satis	Espace	Espace IV	Avantime	Trafic II	Master	Master Prop	
Mot. 1606 00 00 160 600 	High-Pressure pump pulley retaining tool.																	
	K9 engines		•		•			•										•
23054	Inedit																	
Mot. 1608 00 00 160 800 	Torque screwdriver.																	
	F5R						•			•								•
23137	Gillet																	
Mot. 1610 00 00 161 000 	Ratchet wrench for removing/refitting oxygen sensor.																	
	L7X																	•
23136	Gillet																	•
Mot. 1625 00 00 162 500 	Tool for fitting crankshaft PTFE seal, flywheel end.																	
	D4 engines		•	•		•												•
18896	Z. International																	
Mot. 1626 00 00 162 600 	Tool for fitting crankshaft PTFE seal, timing end.																	
	D4 engines		•	•		•												•
18897	Z. International																	
Mot. 1628 00 00 162 800 	Kit of 3 sleeves for fitting elastomer seals (used with Mot.1560, Mot.1561 and Mot.1562).																	
	G9 engines										•	•	•	•	•		•	•
23055	SPX																	
Mot. 1632 00 00 163 200 	Tool for fitting camshaft PTFE seal.																	
	Engines K4 - K9		•		•		•		•									•
18895	Z. International																	

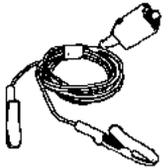
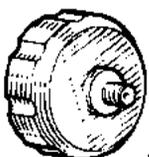
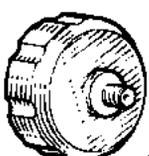
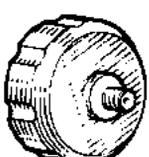
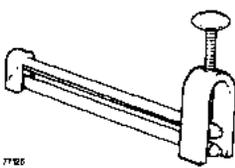
		Engine														
		Twingo	Kangoo	Clio	Clio II	Megane	Megane II	Laguna	Laguna II	Vel Satis	Espace	Espace IV	Avantime	Trafic II	Master	Master Prop
Mot. 1635 00 00 163 500  <small>18895</small>	Tool for fitting crankshaft PTFE seal, flywheel end.															
	F engines		•		•	•	•		•	•	•	•	•		•	•
	Z. International															
Mot. 1636 00 00 163 600  <small>18897</small>	Tool for fitting crankshaft PTFE seal, timing end.															
	F engines		•		•	•	•		•	•	•	•	•		•	•
	Z. International															
Mot. 1638 00 00 163 800  <small>21419</small>	Tool for checking tension of accessories belt. Engines fitted with automatic tensioner.															
	K9 engines without air conditioning		•		•		•									•
	Inédit															
Mot. 1646 00 00 164 600  <small>12950</small>	engine support; fits on DESVIL stand.															
	P9X - V4Y										•	•				•
	Inédit															
Mot. 1647 00 00 164 700  <small>23239</small>	Oil filter cover, Ø110 mm diameter.															
	P9X		•							•	•					•
	Inédit															
Mot. 1648 00 00 164 800  <small>23240</small>	Compression test adapter.															
	P9X									•	•					•
	Z. International															
Mot. 1649 00 00 164 900  <small>23049</small>	Injector - cylinder head cover gasket fitting tool.															
	P9X									•	•					•
	Z. International															

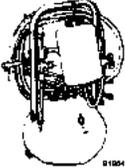
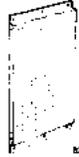
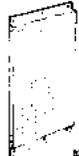
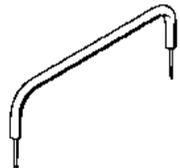
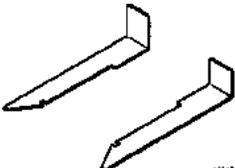
		Engine														
		Twingo	Kangoo	Clio	Clio II	Megane	Megane II	Laguna	Laguna II	Vel Satis	Espace	Espace IV	Avantime	Trafic II	Master	Master Prop
Mot. 1650 00 00 165 000 	Crankshaft seal fitting tool, flywheel end.															
	P9X										•	•				•
18896	Inédit															
Mot. 1651 00 00 165 100 	Tool for fitting crankshaft seal on timing side.															
	P9X										•	•				•
23053	Inédit															
Mot. 1652 00 00 165 200 	For fitting camshaft seal, timing side.															
	P9X										•	•				•
23051	SPX															
Mot. 1653 00 00 165 300 	High-pressure pump seal fitting tool.															
	P9X										•	•				•
23052	SPX															
Mot. 1654 00 00 165 400 	Ø 64 mm oil filter removing tool.															
	V4Y										•	•				•
23135	Inédit															
Mot. 1658 00 00 165 800 	Connection for oil pressure measurement															
	P9X - V4Y										•	•				•
13291	Z. International															
Mot. 1659 00 00 165 900 	Tool for locking the camshaft pulleys.															
	P9X										•	•				•
100508	Z. International															

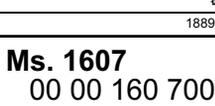
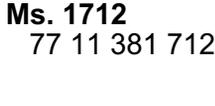
		Engine														
		Twingo	Kangoo	Clio	Clio II	Megane	Megane II	Laguna	Laguna II	Vel Satis	Espace	Espace IV	Avantime	Trafic II	Master	Master Prop
Mot. 1660 00 00 166 000  <small>101777</small>	Tool for balancer shaft timing.									•	•	•	•			•
	G9															
101777		Gillet														
Mot. 1661 00 00 166 100  <small>100509</small>	Tool for spark plug well fitting.		•	•	•											•
	D4 engines															
100509		Inédit														
Mot. 1662 00 00 166 200  <small>103187</small>	Kit for compressing pushrods for adjusting valve clearance.										•	•				•
	P9X															
103187		Gillet														
Mot. 1663 00 00 166 300  <small>100510</small>	Compression tester.		•	•	•											•
	D															
100510		Z. International														
Mot. 1665 00 00 166 500  <small>105961</small>	Flywheel alignment pin.									•	•	•	•	•		•
	G9															
105961		Z. International														
Mot. 1668 00 00 166 800  <small>23054</small>	Tool for locking the high-pressure pump pinion.									•	•	•			•	•
	F9Q															
23054		Inédit														
Mot. 1669 00 00 166 900  <small>103188</small>	Cam follower tappet fitting tool.															•
	K4+															
103188		One-Too														

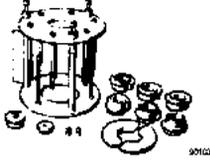
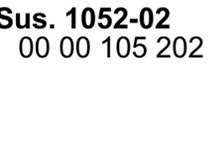
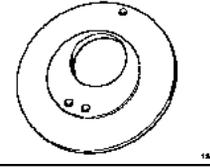
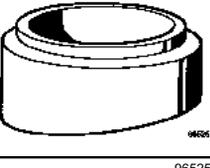
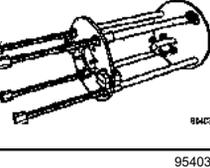
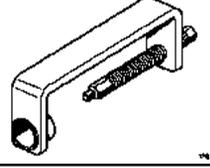
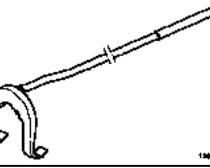
		Engine														
		Twingo	Kangoo	Clio	Clio II	Mégane	Mégane II	Laguna	Laguna II	Vel Satis	Espace	Espace IV	Avantime	Trafic II	Master	Master Prop
Mot. 1672 00 00 167 200  <small>99880</small>	Lower engine support.						•									•
	Gillet															
Mot. 1676 00 00 167 600  <small>103189</small>	Accessories belt tensioning tool (Hutchinson).				•	•	•		•		•	•			•	•
	F9Q Z. International															
Mot. 1677 00 00 167 700  <small>13284</small>	Tool for immobilising flywheel.						•		•	•	•	•	•		•	•
	F engines, large face SPX															
Mot. 1688 00 00 168 800  <small>105957</small>	Engine stand positioning jig.									•		•				•
	V4Y Inédit															
Mot. 1691 00 00 169 100  <small>1691</small>	Necessary for replacing the alternator freewheel pulley.				•	•	•	•	•		•	•			•	•
	F9Q SPX															
Mot. 1703 77 11 381 703  <small>98335-S</small>	Set of two bolts for centring flywheel.															•
	S8 - S9 Z. International															
Mot. 1705 77 11 381 705  <small>105963</small>	Timing belt pre-tensioner tool adaptor. Additional to Mot.1543.		•		•		•		•	•		•	•		•	•
	F engines Inédit															

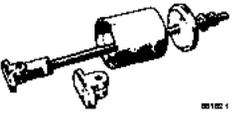
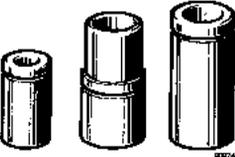
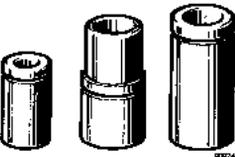
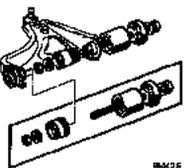
		Engine														
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Mot. 1706 77 11 381 706 	Tool for fitting crankshaft seal on timing side.															
	V4Y										•		•			•
105962	Inedit															
Mot. 1709 77 11 381 709 	Adaptator for engine support. Additional to Mot.1390.															
													•			•
19851	Gillet															
Mot. 1715 77 11 381 715 	Device for checking belt tension (frequency meter). Replaces tool Mot.1505															
		•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
16171	One-100															
Mot. 1726 77 11 381 726 	Tool for spark plug well fitting.															
	V4Y										•		•			•
100509	Inedit															

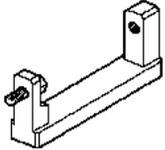
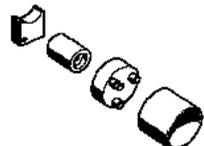
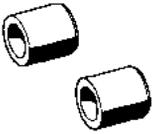
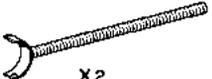
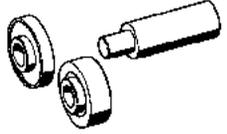
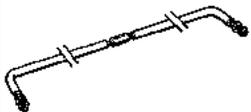
		Special equipment														
		Twingo	Kangoo	Clio	Clio II	Megane	Megane II	Laguna	Laguna II	Vel Satis	Espace	Espace IV	Avantime	Trafic II	Master	Master Prop
Ms. 511-01 00 00 051 101 	Starter remote control. Perricaudet	•	•	•		•		•			•			•		•
Ms. 554-01 00 00 054 401 	Cap (spare) for testing expansion bottle valves. Z. International														•	•
Ms. 554-04 00 00 055 404 	Cap (spare) for testing expansion bottle valves. Z. International	•	•	•	•	•		•	•	•	•			•		•
Ms. 554-06 00 00 055 406 	Cap (spare) for testing expansion bottle valves. Z. International							•	•	•	•				•	•
Ms. 554-07 00 00 055 407 	Kit for checking air conditioning circuit and expansion bottle valve + (Ms 554-04). Z. International	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
Ms. 580 00 00 058 000 	Pin extractor. Z. International	•	•	•		•		•	•		•			•		•
Ms. 583 00 00 058 300 	Hose clamps. Lucas	•	•	•	•	•		•	•		•		•	•		•

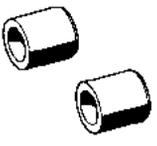
		Special equipment														
		Twingo	Kangoo	Clio	Clio II	Megane	Megane II	Laguna	Laguna II	Vel Satis	Espace	Espace IV	Avantime	Trafic II	Master	Master Prop
Ms. 815 00 00 081 500 	Apparatus for bleeding braking and clutch systems.	•	•	•		•		•			•			•		•
	81854	Z. International														
Ms. 815-01 00 00 081 501 	Spare pipes to fit Ms.815 bleeding apparatus, sold in sixes.	•	•	•		•		•			•			•		•
	82502	Z. International														
Ms. 865 00 00 086 500 	Unit for holding special tools (700 x 1000 mm board).	•	•	•	•	•		•	•		•		•	•	•	•
	82298	Z. International														
Ms. 866 00 00 086 600 	Unit for holding special tools (350 x 1000 mm board).	•	•	•	•	•		•	•		•		•	•	•	•
	82298	Z. International														
Ms. 1350 00 00 135 000 	Tool for removing Pioneer radio.			•							•					•
	105980	Devaudel														
Ms. 1373 00 00 137 300 	Tool for removing Philips radio.					•	•		•	•	•	•			•	•
	10038	Gillet														
Ms. 1411 00 00 141 100 	Tool for removing Alpine Luxman radio.							•	•		•					•
	12140	Gillet														

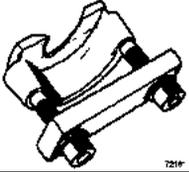
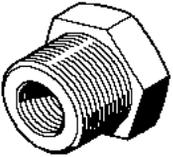
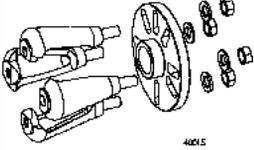
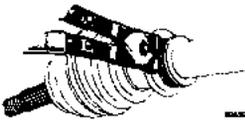
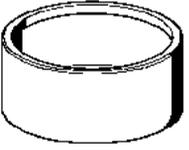
		Special equipment														
		Twingo	Kangoo	Clio	Clio II	Megane	Megane II	Laguna	Laguna II	Vel Satis	Espace	Espace IV	Avantime	Trafic II	Master	Master Prop
Ms. 1514 00 00 151 400  <small>12395</small>	Protective capsules for airbag destruction device.				•						•					•
	Z. International															
Ms. 1544 00 00 154 400  <small>18893</small>	Tool for removing Carminat Becker radio.	•														•
	Inédit															
Ms. 1607 00 00 160 700  <small>18893</small>	Valve actuator tool for wheels with tyre pressure monitor.					•	•		•	•		•				•
	JCAE															
Ms. 1639 00 00 163 900  <small>18893</small>	Alpine CD changer extractor tool.									•		•				•
	Gillet															
Ms. 1712 77 11 381 712  <small>18893</small>	Necessary to take pressure reading for unloading cylinder .															•
	One-Too															

		Suspension		Twingo	Kangoo	Clio	Clio II	Megane	Megane II	Laguna	Laguna II	Vel Satis	Espace	Espace IV	Avantime	Trafic II	Master	Master Prop	
Sus. 1052 00 00 105 200 	Tooling for working on front spring and shock absorber.			•	•	•		•											•
		90100	Z. International																
Sus. 1052-02 00 00 105 202 	Bearing cups. Supplemets Sus.1052.				•	•		•											•
			Z. International																
Sus. 1052-03 00 00 105 203 	Upper holding plate. Supplements Sus.1052.							•											•
		13572	Desvii																
Sus. 1052-04 00 00 105 204 	Socket for removing/refitting shock absorbers. Supplements Sus.1052.			•															•
		96525	Z. International																
Sus. 1232 00 00 123 200 	Tool for working on springs and shock absorbers.										•								•
		95403	Desvii																
Sus. 1413 00 00 141 300 	Rubber mounting compressor for fitting anti-roll bar (wheel side).				•	•	•	•											•
		12876	Gillet																
Sus. 1414 00 00 141 400 	Fork for installing anti-roll bar central bearings.			•	•	•	•												•
		12877	Gillet																

		Rear suspension														
		Twingo	Kangoo	Clio	Clio II	Megane	Megane II	Laguna	Laguna II	Vel Satis	Espace	Espace IV	Avantime	Trafic II	Master	Master Prop
Tar. 960-02 00 00 096 002 	Tooling for refitting rear bearing rings (Tar.960 + Tar.960-01) together.		•	•		•										•
86182-1	Inédit															
Tar. 960-03 00 00 096 003 	Tooling for refitting rear axle needle bearings.		•	•		•										•
90874-1	Z. International															
Tar. 960-05 00 00 096 005 	Tooling for refitting rear axle needle bearings.		•	•		•		•								•
90874-1	Z. International															
Tar. 1056 00 00 105 600 	Tool for refitting rear suspension rubber bushes.							•								•
90596	Z. International															
Tar. 1094 00 00 109 400 	Extractor with three sliding clamps.		•	•	•	•	•	•	•	•	•	•	•	•	•	•
92174	Z. International															
Tar. 1270 00 00 127 000 	Kit for refitting rear axle assembly rubber bushes.		•													•
96440-S	Inédit															
Tar. 1304 00 00 130 400 	Tool for removing rear bar.							•								•
97593	Inédit															

		Rear suspension		Twingo	Kangoo	Clio	Clio II	Mégane	Mégane II	Laguna	Laguna II	Vel Satis	Espace	Espace IV	Avantime	Trafic II	Master	Master Prop
Tar. 1362 00 00 136 200 	Tool for removing rear torsion bars. Used with extractor Emb.880.							•										•
<small>99513</small> Gillet																		
Tar. 1454 00 00 145 400 	Tool for replacing rear axle rubber bushes.						•											•
<small>14555</small> Desvii																		
Tar. 1545 00 00 154 500 	Tooling for refitting rear axle needle bearings.				•													•
<small>16809</small> Z. International																		
Tar. 1565 00 00 156 500 	Rear axle centring dowel.				•			•										•
<small>19687</small> SPX	4x4																	
Tar. 1571 00 00 157 100 	Tool for holding rear sub-frame. Used with engine-gearbox assembly support Mot.1390.				•			•										•
<small>17792</small> Inédit	4x4																	
Tar. 1623 00 00 162 300 	Tool for replacing rear wheel bearings.																	•
<small>23130</small> SPX																		•
Tar. 1655 00 00 165 500 	Rear wheel alignment adjustment bar.											•						•
<small>23242</small> Gillet																		

		Rear suspension														
		Twingo	Kangoo	Clio	Clio II	Megane	Megane II	Laguna	Laguna II	Vel Satis	Espace	Espace IV	Avantime	Trafic II	Master	Master Prop
Tar. 1682 00 00 168 200 	Rear axle bearing mounting centring tool.															
												•				•
19687	SPX															

		Front suspension											Twingo	Kangoo	Clio	Clio II	Megane	Megane II	Laguna	Laguna II	Vel Satis	Espace	Espace IV	Avantime	Trafic II	Master	Master Prop
Tav. 476 00 00 047 600 	Tool for extracting ball joint. Z. International																										
Tav. 1034 00 00 103 400 	Pliers for tightening driveshaft gaiter clip (GE.76 - GE.86 - LOBRO RF 95 driveshafts). Gillet																										
Tav. 1050-03 00 00 105 003 	Adapter for using pin extractor Ms.580 with tools Tav.1050-02 and Tav.1050-04. Z. International																										
Tav. 1050-04 00 00 105 004 	Universal tool for pushing back driveshaft (plate and jaws, without actuator). Used with actuator Tav.1420-01 or Tav.1050-02, or Ms.580 + Tav.1050-03. Z. International																										
Tav. 1168 00 00 116 800 	Clic type circlip pliers for thermoplastic driveshaft gaiter. Gillet																										
Tav. 1230 00 00 123 000 	Extractor for spindle holder bearing. Z. International																										
Tav. 1230-01 00 00 123 001 	Spindle holder support tool for refitting hub bearing. Devaudel																										

TOOL BOARD MANAGEMENT

I - PUTTING IN ORDER THE TOOL BOARD

Specialised tools are too often little used because hard to find in the workshop or not easy enough to access.

A distinction should be made between two main categories of specialised tools according to their frequency of use:

a) Specialised tools which are used very frequently:

- *Inexpensive:*

They should be distributed to each mechanic concerned.

Example: Oil filter spanners, spark plug spanners.

- *Very expensive:*

One per unit, kept in a cabinet reserved for this purpose, these tools will be available on a self-service basis or on request from the head of unit.

Example: Mot.1505 frequency meter, Mot.1311-01 set of pressure gauges and fuel pressure measurement connectors.

b) Tools for less frequent or exceptional use:

Insofar as possible (depending on the available space and the size of the tools), they shall be arranged on a tool board whose characteristics are described below.

Access to this tool board should be controlled to identify responsibilities for the loss of or damage to tools.

Likewise, there should be a user identification system so that at any time it is possible to retrieve a tool that has been removed.

Types of equipment to be used for storage:

- Panels (modular units):

In grey-painted sheet metal (RAL 7042) drilled to diameter 5 mm, pitch 25 mm.

Panel 700 × 1000 Ref. 0000086500

1/2 panel 3501000 Ref. 0000086600

Panel attachment:

Set of 2 rails Ref. 0000084100

Panel installation:

Wall-mounted on rails:

Panels and 1/2 panels are fastened to the wall by rails and blind staples. Each panel can be dismounted separately and moved without having to dismount the entire tool board.

On racks:

Uprights and cross members of painted steel tubes enabling a continuous partition to be formed by a series of assembly operations. These racks can be equipped with either panels, 1/2 panels or cabinets on one or both sides.

- Tool protection gratings:

Module formed of two suspended gratings, sliding one over the other, protecting a set of 8 panels, 1000 × 700 mm (superposed 4 × 2).

Composition:

4 U-pillars.

2 wire mesh gratings, 25 × 25 × 3 mm, equipped with rollers.

2 sides in perforated sheet metal R5U25.

1 upper rail equipped with adjustable roller mountings.

1 lower guide.

2 U-irons for wall fastening.

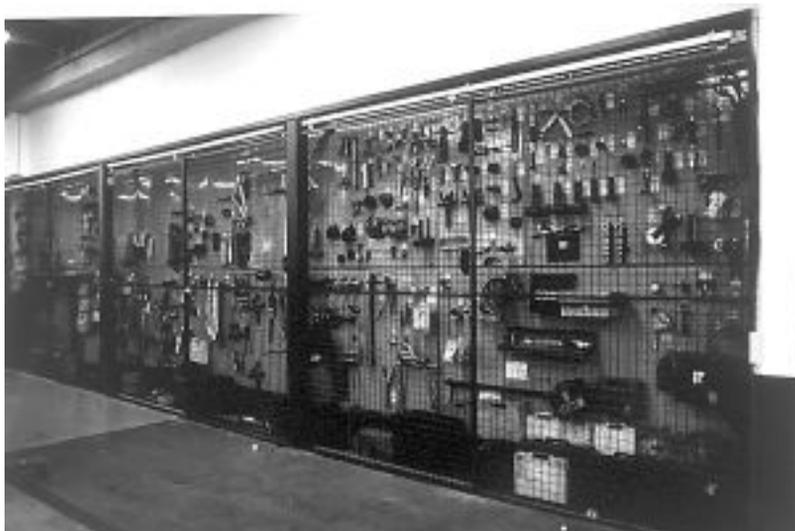
1 upper grating (against intrusion from above).

Dimensions:

Height: 2.40 m.

Length: 3.25 m.

Depth: 0.40 m.



This solution ensures anti-intrusion protection while still enabling visual inspection of the tooling with the doors closed.

- Cabinet with grating:

Wall cabinet with two-leaf doors locked by key.

Front doors in gratings providing a view of the inside with the doors closed.

Mounting surface (backs and sides): 1.2 m².

Dimensions:

Width: 0.70 m.

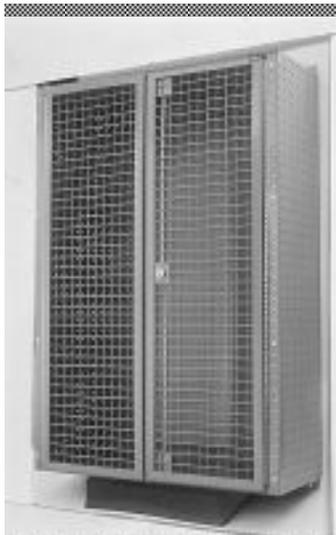
Height: 1 m.

Depth: 0.25 m.

Options:

Possibility of adapting shelves (150 × 650 mm).

Special key numbers.



These cabinets can be fastened to a wall or a partition.

They can also be installed on a panel with supporting pedestals for separations between work stations.

An identity plate is provided at the top.

- Workshop storage modules:

Set consisting of 2 windowed cabinets one above the other, locked by key, equipped with a mobile base enabling the cabinet to be moved to the work stations.

