

# patron

ORIGINAL QUALITY



## STEERING PUMPS

2012/2013



 **WATE-M**  
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**MAKES AND MODELS APPLICATIONS**

**ПРИМЕНЯЕМОСТЬ ПО МАРКАМ И МОДЕЛЯМ**

			FOR MANUFACTURER	PATRON	 mm	PORTS	REMARKS
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## ALFA ROMEO

### 33 (907)

1.4	06.91 → 09.94		ZF	PPS480	114	1		
1.5	10.90 → 01.93		ZF	PPS480	114	1		
1.7	06.90 → 10.94		ZF	PPS480	114	1		
1.8 TD	07.90 → 09.94		ZF	PPS480	114	1		

### 75 (162B)

2.0 T.Spark	09.87 → 01.93		ZF	PPS479	90	1		
2.5 V6	06.86 → 05.90		ZF	PPS478	93	1		
3.0 V6	09.87 → 01.93		ZF	PPS479	90	1		

### 90 (162)

2.5 V6	02.84 → 10.87		ZF	PPS478	93	1		
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### 145 (930)

1.4 16V	12.96 → 01.01		ZF	PPS007	128	6		
1.6 8V	10.94 → 03.97		SAGINAW/ZF	PPS477		1		IN —
1.6 8V	10.94 → 03.97		SAGINAW	PPS999		1		IN ↗
1.6 16V T.Spark	03.97 → 01.01		ZF	PPS007	128	6		
1.7 16V	10.94 → 03.97		SAGINAW/ZF	PPS477		1		IN —
1.7 16V	10.94 → 03.97		SAGINAW	PPS999		1		IN ↗
1.8 16V T.Spark	03.97 → 01.01		ZF	PPS007	128	6		
1.9 JTD	02.99 → 2000		SAGINAW/ZF	PPS912	130	6		OE 46533006
1.9 TDS	10.94 → 02.99		SAGINAW/ZF	PPS324	143	3		OE 46410955
2.0 16V T.Spark	02.96 → 01.01		ZF	PPS007	128	6		

### 146 (930)

1.4 16V	11.96 → 01.01		ZF	PPS007	128	6		
1.6 8V	06.95 → 03.97		SAGINAW/ZF	PPS477		1		IN —
1.6 8V	06.95 → 03.97		SAGINAW	PPS999		1		IN ↗
1.6 16V T.Spark	03.97 → 01.01		ZF	PPS007	128	6		
1.7 16V	06.95 → 09.96		SAGINAW/ZF	PPS477		1		IN —
1.7 16V	06.95 → 09.96		SAGINAW	PPS999		1		IN ↗
1.8 16V T.Spark	03.97 → 01.01		ZF	PPS007	128	6		
1.9 JTD	02.99 → 2000		SAGINAW/ZF	PPS912	130	6		OE 46533006
1.9 TDS	10.94 → 02.99		SAGINAW/ZF	PPS324	143	3		OE 46410955
2.0 16V TI T.Spark	02.96 → 01.01		ZF	PPS007	128	6		

### 155 (167)





1.8 8V T.Spark	07.92 → 05.96		ZF	PPS476	115	4		
1.8 16V T.Spark	06.96 → 03.98		ZF	PPS007	128	6		
2.0 8V T.Spark	07.92 → 06.95		ZF	PPS476	115	4		
2.0 16V Turbo	10.92 → 09.94	4WD	ZF	PPS583		1		
2.0 16V T.Spark × Turbo	06.95 → 03.98		ZF	PPS007	128	6		
2.5 V6	07.92 → 05.96		ZF	PPS475	120	4		

### 156 (932)

1.6 16V T.Spark	07.00 →		ZF	PPS1028				
1.8 16V T.Spark	05.98 →		ZF	PPS007	128	6		
1.9 JTD	09.97 → 2002		SAGINAW/ZF	PPS912	130	6		OE 46533006
2.0 16V T.Spark	05.98 →		ZF	PPS007	128	6		
2.4 JTD	06.99 →		SAGINAW	PPS650		6		
2.5 V6	05.98 →		ZF	PPS361	103	6		

### 164 (164)

2.0 T.Spark	07.90 → 05.93		ZF	PPS474	118	5		
2.0 T.Spark	05.93 → 03.98		ZF	PPS476	115	4		
3.0 12V	10.88 → 1992	→  Eng. 1250	ZF	PPS474	118	5		

			FOR MANUFACTURER	PATRON	 mm	PORTS	REMARKS
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## ALFA ROMEO

### 164 (164)

3.0 12V	1992 → 05.93	Eng. 1251  →	ZF	PPS584	99	4	
3.0 24V	05.93 → 03.98		ZF	PPS497		7	

### 166 (936)




2.0 16V T.Spark	01.99 →		ZF	PPS007	128	6	
2.4 JTD	01.98 → 2002		SAGINAW/ZF	PPS912	130	6	OE 46533006
2.5 24V	01.99 →		ZF	PPS361	103	6	
3.0 24V	01.99 →		ZF	PPS361	103	6	

### GTV / SPIDER (916)

2.0 16V	04.96 →		ZF	PPS007	128	6	
2.0 16V	04.96 →		SAGINAW	PPS999		1	IN ↗
3.0 24V	01.98 →		ZF	PPS361	103	6	

### SPIDER (115)

2.0 8V	08.90 → 04.93		ZF	PPS480	114	1	
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			FOR MANUFACTURER	PATRON	 mm	PORTS	REMARKS
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## AUDI

### 80 (81, 85, B2)






1.6	10.83 → 06.86		ZF	PPS305	130	1	
1.8 quattro	07.85 → 07.86		ZF	PPS305	130	1	
1.9 CD	09.81 → 10.83		ZF	PPS305	130	1	
2.0 CD	10.83 → 05.84		ZF	PPS305	130	1	
2.1 quattro	03.83 → 07.85		ZF	PPS305	130	1	

### 80 (89, 89Q, 8A, B3)

1.6 TD	12.88 → 11.91		ZF	PPS011		1	2
1.8 8V	09.89 → 11.91		ZF	PPS011		1	2
2.0 8V Incl. quattro	09.89 → 11.91		ZF	PPS011		1	2
2.0 / 2.0 16V quattro	10.90 → 11.91	*SLS	ZF	PPS937			2
2.0 / 2.0 16V quattro	10.90 → 11.91	SLS	ZF	PPS938			3

### 80 (8C, B4)

1.6 8V	09.93 → 06.95	*SLS	ZF	PPS291	130	1	2
1.6 8V	09.93 → 06.95	SLS	ZF	PPS212	117	5	3
1.9 TD	01.92 → 06.95	*SLS	ZF	PPS291	130	1	2
1.9 TD	01.92 → 06.95	SLS	ZF	PPS212	117	5	3
2.0 8V	11.91 → 06.95	*SLS	ZF	PPS291	130	1	2
2.0 8V	11.91 → 06.95	SLS	ZF	PPS212	117	5	3
2.0 16V quattro	11.91 → 06.95	*SLS	ZF	PPS946			2
2.0 16V quattro	11.91 → 06.95	SLS	ZF	PPS212	117	5	3
2.2 Turbo quattro	01.93 → 06.95		ZF	PPS212	117	5	3
2.3 10V	11.91 → 01.96		VICKERS	PPS623	130	1	2
2.3 10V	11.91 → 01.96	*SLS	ZF	PPS291	130	1	2
2.3 10V	11.91 → 06.92	SLS	ZF	PPS212	117	5	3

			FOR MANUFACTURER	PATRON	 mm 	PORTS	REMARKS
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## AUDI

### 80 (8C, B4)

2.6 12V Incl. quattro	09.92 → 06.95	×SLS	ZF	PPS493			2	
2.6 12V Incl. quattro	09.92 → 06.95	SLS	ZF	PPS212	117	5	3	
2.8 12V Incl. quattro	11.91 → 08.93	×SLS	ZF	PPS493			2	
2.8 12V Incl. quattro	11.91 → 08.93	SLS	ZF	PPS212	117	5	3	

### 90 (81, 85, B2)

2.0 10V	10.84 → 08.86		ZF	PPS305	130	1		
2.2 10V quattro	07.84 → 08.86		ZF	PPS305	130	1		

### 90 (89, 89Q, 8A, B3)

2.0 10V	07.87 → 08.89		ZF	PPS011			1	2
2.2 10V	07.87 → 08.89	×SLS	VICKERS	PPS623	130	1	2	
2.2 10V	07.87 → 08.89	SLS	ZF	PPS608				3
2.3 10V/20V	09.89 → 11.91		VICKERS	PPS623	130	1	2	
2.3 10V/20V	09.89 → 11.91	×SLS	ZF	PPS011			1	2
2.3 10V/20V	09.89 → 11.91	SLS	ZF	PPS938				3

### 100 (44, 44Q, C3)

1.8 8V	08.83 → 08.86		ZF	PPS473				3
1.9 10V	01.83 → 07.83		ZF	PPS190	113	1	3	
2.0 10V	02.83 → 11.91		ZF	PPS190	113	1	3	
2.1 10V	01.83 → 01.85		ZF	PPS190	113	1	3	
2.2 10V Incl. quattro	07.84 → 08.89		ZF	PPS190	113	1	3	
2.2 Turbo Incl. quattro	09.89 → 11.91		ZF	PPS190	113	1	3	
2.3 10V Incl. quattro	09.89 → 11.91		ZF	PPS190	113	1	3	

### 100 (4A, C4)






2.0 8V	05.91 → 06.94		VICKERS/LUK	PPS982				2
2.0 8V	05.91 → 06.94	×SLS	ZF	PPS010	155	6	2	
2.0 8V	05.91 → 06.94	SLS	ZF	PPS592	162	6	3	
2.0 TD	02.83 → 11.91		ZF	PPS190	113	1	3	
2.3 10V	05.91 → 09.92		VICKERS/LUK	PPS982				2
2.3 10V Incl. quattro	05.91 → 09.92	×SLS	ZF	PPS010	155	6	2	
2.3 10V Incl. quattro	05.91 → 09.94	SLS	ZF	PPS592	162	6	3	
2.5 TD	09.91 → 06.94		VICKERS/LUK	PPS982				2
2.5 TD	09.91 → 06.94	×SLS	ZF	PPS010	155	6	2	
2.5 TD	09.91 → 06.94	SLS	ZF	PPS592	162	6	3	
2.6 12V	09.92 → 06.94		VICKERS/LUK	PPS982				2
2.6 12V	09.92 → 06.94	×SLS	ZF	PPS010	155	6	2	
2.6 12V	09.92 → 06.94	SLS	ZF	PPS592	162	6	3	
2.8 12V	05.91 → 06.94		VICKERS/LUK	PPS982				2
2.8 12V Incl. quattro	05.91 → 06.94	×SLS	ZF	PPS010	155	6	2	
2.8 12V Incl. quattro	05.91 → 06.94	SLS	ZF	PPS592	162	6	3	
S4 4.2 V8 quattro Incl. Turbo	08.91 → 06.94		ZF	PPS592	162	6	3	

### 200 (44, 44Q)

2.1 10V Turbo	08.83 → 01.88		ZF	PPS190	113	1	3	
2.2 10V Turbo Incl. quattro	08.85 → 09.91		ZF	PPS190	113	1	3	
2.3	11.86 → 09.91		ZF	PPS190	113	1	3	

### A3 (8L1)

1.6 8V	09.96 →		ZF	PPS935	120	6		
1.6 8V	09.96 →		KAYABA	PPS1013				
1.8 20V	09.96 →		KAYABA	PPS1013				
1.8 20V Incl. Turbo	09.96 →		ZF	PPS935	120	6		
1.9 TD	12.96 →		ZF	PPS001				

			FOR MANUFACTURER	PATRON	 mm 	PORTS	REMARKS
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## AUDI

A4 (8D2, B5)							
1.6	09.96 → 03.97	CH →  8D-V-180000	ZF	PPS309			
1.6	03.97 → 09.01	CH 8D-V-180001  →	ZF	PPS380			
1.8	03.95 → 03.97	CH →  8D-V-180000	ZF	PPS309			
1.8	03.97 → 09.01	CH 8D-V-180001  →	ZF	PPS380			
1.8 quattro	03.95 → 03.97	CH →  8D-V-198000	ZF	PPS309			
1.8 quattro	03.97 → 09.01	CH 8DV198001  →	ZF	PPS380			
1.8 Turbo	03.95 → 03.97	CH →  8D-V-180000	ZF	PPS358			
1.8 Turbo	03.97 → 09.01	CH 8D-V-180001  →	ZF	PPS380			
1.8 Turbo quattro	03.95 → 03.97	CH →  8D-V-180000	ZF	PPS358			
1.8 Turbo quattro	03.97 → 09.01	CH 8D-V-180001  →	ZF	PPS380			
1.9 TD	03.95 → 09.01	CH →  8D-W-163240	ZF	PPS380			
1.9 TD	03.95 → 09.01	CH 8D-W-163241  →	ZF	PPS360			
1.9 TD quattro	03.95 → 09.01	CH →  8D-W-163240	ZF	PPS380			
1.9 TD quattro	03.95 → 09.01	CH 8D-W-163241  →	ZF	PPS360			
2.4 30V	09.97 → 09.01		ZF	PPS947			
2.4 30V quattro	03.97 → 11.00		ZF	PPS947			
2.5 TD	05.98 → 09.01		ZF	PPS012	120	6	
2.5 TD quattro	09.97 → 11.00		ZF	PPS012	120	6	
2.6	01.95 → 11.00		ZF	PPS309			
2.6 quattro	01.95 → 11.00		ZF	PPS309			
2.7 quattro	09.97 → 09.01		ZF	PPS585			
2.8 30V	04.96 → 03.97	CH →  8D-V-204474	ZF	PPS309			
2.8 30V	04.97 → 09.01	CH 8D-V-204475  →	ZF	PPS947			
2.8 30V quattro	04.96 → 03.97	CH →  8D-V-200000	ZF	PPS309			
2.8 30V quattro	04.97 → 09.01	CH 8D-V-200001  →	ZF	PPS947			

A4 (8E2, B6)							
1.8 Turbo	11.00 → 07.02	CH →  8D-1-200000	ZF	PPS380			
1.9 TD	01.01 →		ZF	PPS360			
1.9 TD	01.01 →		KAYABA	PPS071	132	6	
1.9 TD quattro	11.01 →		ZF	PPS360			
1.9 TD quattro	11.01 →		KAYABA	PPS071	132	6	

A6 (4A, C4)							
1.8 20V	06.94 → 12.96		ZF	PPS010	155	6	2
1.8 20V	06.94 → 12.96		VICKERS/LUK	PPS982			2
1.9 TD	01.95 → 12.96		ZF	PPS010	155	6	2
1.9 TD	01.95 → 12.96		VICKERS/LUK	PPS982			2
2.0 8V	06.94 → 12.95		ZF	PPS010	155	6	2
2.0 8V	06.94 → 12.95		VICKERS/LUK	PPS982			2
2.5 TD	06.94 → 12.96		VICKERS/LUK	PPS982			2
2.5 TD	06.94 → 12.96	*SLS	ZF	PPS010	155	6	2
2.5 TD	06.94 → 12.96	SLS	ZF	PPS592	162	6	3
2.6	06.94 → 12.96		VICKERS/LUK	PPS982			2
2.6	06.94 → 12.96	*SLS	ZF	PPS010	155	6	2
2.6	06.94 → 12.96	SLS	ZF	PPS592	162	6	3
2.8	06.94 → 12.96		VICKERS/LUK	PPS982			2
2.8 Incl. quattro	06.94 → 12.96	*SLS	ZF	PPS010	155	6	2
2.8 Incl. quattro	06.94 → 12.96	SLS	ZF	PPS592	162	6	3

A6 (4B, C5)							
1.8 Turbo	05.97 →		ZF	PPS013			
1.9 TD	05.97 →		ZF	PPS013			
2.4	05.97 →		ZF	PPS020			IN/OUT - 270/90°
2.4	05.97 →		ZF	PPS020			IN/OUT - 90°
2.5 TD	11.97 →		ZF	PPS020			IN/OUT - 270/90°
2.5 TD	11.97 →		ZF	PPS020			IN/OUT - 90°

			FOR MANUFACTURER	PATRON	 mm 	PORTS	REMARKS
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## AUDI

A6 (4B, C5)							
2.7 Turbo	06.99 →		ZF	PPS586			
2.8	05.97 → 07.01		ZF	PPS020			IN/OUT - 270/90°
2.8	05.97 → 07.01		ZF	PPS020			IN/OUT - 90°

A8 (4D2, 4D8)							
2.8 Incl. quattro	10.94 → 04.96	×SLS	ZF	PPS472	158	6	2
2.8 Incl. quattro	10.94 →	SLS	ZF	PPS587	158	6	3
3.7 Incl. quattro	10.95 →	×SLS	ZF	PPS472	158	6	2
3.7 Incl. quattro	10.95 →	SLS	ZF	PPS587	158	6	3
4.2 quattro	10.94 →	×SLS	ZF	PPS472	158	6	2
4.2 quattro	10.94 →	SLS	ZF	PPS587	158	6	3





CABRIOLET (8G7, B4)							
1.8 20V	03.97 → 06.00	×SLS	ZF	PPS608			3
1.8 20V	03.97 → 06.00	×SLS	ZF	PPS291	130	1	2
1.8 20V	03.97 → 06.00	SLS	ZF	PPS212	117	5	3
2.0 8V	07.93 → 12.96	×SLS	ZF	PPS291	130	1	2
2.0 8V	07.93 → 12.96	SLS	ZF	PPS212	117	5	3
2.3 10V	07.92 → 05.94		VICKERS	PPS623	130	1	2
2.3 10V	07.92 → 05.94	×SLS	ZF	PPS291	130	1	2
2.3 10V	07.92 → 05.94	SLS	ZF	PPS212	117	5	3
2.6 12V	05.94 → 06.00	×SLS	ZF	PPS493			2
2.6 12V	05.94 → 06.00	SLS	ZF	PPS212	117	5	3
2.8 12V	05.96 → 06.00	×SLS	ZF	PPS493			2
2.8 12V	05.96 → 06.00	SLS	ZF	PPS212	117	5	3

COUPE (81, 85)							
1.8 8V	10.84 → 01.88		ZF	PPS305	130	1	
2.1 10V	07.82 → 08.84		ZF	PPS305	130	1	
2.2 10V	07.84 → 10.87		ZF	PPS305	130	1	
2.2 10V	07.84 → 10.87		VICKERS	PPS623	130	1	2

COUPE (89, 8B)							
2.0 8V	09.89 → 1991		ZF	PPS011		1	2
2.0 8V	1991 → 09.96	×SLS	ZF	PPS291	130	1	2
2.0 8V	1991 → 09.96	SLS	ZF	PPS212	117	5	3
2.0 16V	10.92 → 12.95	×SLS	ZF	PPS946			2
2.0 16V	10.92 → 12.95	SLS	ZF	PPS212	117	5	3
2.2	10.88 → 08.89	×SLS	ZF	PPS011		1	2
2.2	10.88 → 08.89	SLS	ZF	PPS608			3
2.3 10V/20V	09.89 → 07.92	×SLS	ZF	PPS011		1	2
2.3 10V/20V	09.89 → 07.92	SLS	ZF	PPS938			3
2.6 12V	09.92 → 09.96	×SLS	ZF	PPS493			2
2.6 12V	09.92 → 09.96	SLS	ZF	PPS212	117	5	3
2.8 12V	11.91 → 12.95	×SLS	ZF	PPS493			2
2.8 12V	11.91 → 12.95	SLS	ZF	PPS212	117	5	3
S2 2.2 Turbo	10.90 → 01.96	SLS	ZF	PPS212	117	5	3






















V8 (D1)							
3.6 V8	06.90 → 02.92	SLS	ZF	PPS588			
4.2 V8	02.92 → 08.93	SLS	ZF	PPS588			















			<b>FOR MANUFACTURER</b>	<b>PATRON</b>	 mm mm	<b>PORTS</b>	<b>REMARKS</b>
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## BMW

3 SERIES (E21)							
320	04.81 → 10.82			ZF	PPS559		RS-3x
323 i	04.81 → 10.82			ZF	PPS559		RS-3x

3 SERIES (E30)							
316 i 1.6		1987 → 1988	Eng. M10		ZF	PPS336	125 1
316 i 1.6		09.88 → 04.91	Eng. M40		ZF	PPS263	109 1
318 i 1.8		03.83 → 09.88	Eng. M10		ZF	PPS336	125 1
318 i 1.8		09.83 → 10.87	Eng. M10		ZF	PPS336	125 1
318 i 1.8		10.87 → 04.91	Eng. M40		ZF	PPS263	109 1
318 i 1.8		09.83 → 02.94	Eng. M40		ZF	PPS263	109 1
318 i 1.8		04.89 → 02.94	Eng. M40		ZF	PPS263	109 1
318 is 1.8		06.90 → 04.91	Eng. M42		ZF	PPS263	109 1
320 i 2.0		03.83 → 12.90	Eng. M20		ZF	PPS336	125 1
320 i 2.0		07.84 → 01.93			LUK	PPS969	125 1 2
320 i 2.0		07.84 → 01.93			VICKERS	PPS978	125 1 2
320 i 2.0		07.84 → 01.93	Eng. M20		ZF	PPS487	2
320 i 2.0		1987 → 04.91			LUK	PPS969	125 1 2
320 i 2.0		1987 → 04.91			VICKERS	PPS978	125 1 2
320 i 2.0		1987 → 04.91	Eng. M20, ×SLS		ZF	PPS487	2
320 i 2.0		1987 → 04.91	Eng. M20, SLS		ZF	PPS498	126 1 3
323 i 2.3		03.83 → 07.85	Eng. M20		ZF	PPS336	125 1
324 2.4 D/TD		1985 → 1991	Eng. M21		ZF	PPS487	2
324 2.4 TD		1987 → 1992			LUK	PPS969	125 1 2
324 2.4 TD		1987 → 1992			VICKERS	PPS978	125 1 2
324 2.4 TD		1987 → 1992	Eng. M21, ×SLS		ZF	PPS487	2
324 2.4 TD		1987 → 1992	Eng. M21, SLS		ZF	PPS498	126 1 3
325 e 2.5		1985 → 1987	Eng. M20		ZF	PPS336	125 1
325 i 2.5		10.85 → 12.90	Incl. 4WD, Eng. M20		ZF	PPS336	125 1
325 i 2.5		09.86 → 12.92			LUK	PPS969	125 1 2
325 i 2.5		09.86 → 12.92			VICKERS	PPS978	125 1 2
325 i 2.5		09.86 → 12.92	Eng. M20		ZF	PPS487	2
325 i 2.5		04.88 → 12.93	Incl. 4WD		LUK	PPS969	125 1 2
325 i 2.5		04.88 → 12.93	Incl. 4WD		VICKERS	PPS978	125 1 2
325 i 2.5		04.88 → 12.93	Incl. 4WD, Eng. M20, ×SLS		ZF	PPS487	2
325 i 2.5		04.88 → 12.93	Incl. 4WD, Eng. M20, SLS		ZF	PPS498	126 1 3





3 SERIES (E36)							
316 i 1.6		10.93 → 09.95			LUK	PPS008	
316 i 1.6		10.95 → 03.98			LUK	PPS970	
316 i 1.6		01.94 → 09.95			LUK	PPS008	
316 i 1.6		10.95 → 03.99	Eng. M43		ZF	PPS059	142 6
316 i 1.6		10.95 → 03.99			LUK	PPS970	
316 i 1.6		06.91 → 09.93	Eng. M40		ZF	PPS008	115 1
316 i 1.6		10.93 → 09.95	Eng. M43		ZF	PPS059	142 6
316 i 1.6		10.95 → 03.98	Eng. M43		ZF	PPS059	142 6
316 i 1.6		01.94 → 09.95	Eng. M43		ZF	PPS059	142 6
316 i 1.6		04.97 → 08.99	Eng. M43		ZF	PPS059	142 6
316 i 1.6		04.97 → 08.99			LUK	PPS970	
318 i 1.8		10.93 → 09.95			LUK	PPS008	
318 i 1.8		10.95 → 04.98			LUK	PPS970	
318 i 1.8		10.95 → 12.99			LUK	PPS970	
318 i 1.8		04.91 → 09.93	Eng. M40		ZF	PPS008	115 1
318 i 1.8		10.93 → 09.95	Eng. M43		ZF	PPS059	142 6
318 i 1.8		10.95 → 04.98	Eng. M43		ZF	PPS059	142 6
318 i 1.8		05.94 → 09.95	Eng. M43		ZF	PPS059	142 6
318 i 1.8		10.95 → 12.99	Eng. M43		ZF	PPS059	142 6
318 i 1.8		01.96 → 08.99	Eng. M43		ZF	PPS059	142 6

			FOR MANUFACTURER	PATRON		PORTS	REMARKS
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## BMW

3 SERIES (E36)							
318 i 1.8		01.96 → 08.99		LUK	PPS970		
318 is 1.8		04.92 → 09.95		LUK	PPS008		
318 is 1.8		10.95 → 04.96		LUK	PPS970		
318 is 1.8		04.92 → 09.95	Eng. M42	ZF	PPS008	115	1
318 is 1.8		10.95 → 04.96	Eng. M42	ZF	PPS008	115	1
318 is 1.9		02.98 → 01.99		LUK	PPS970		
318 is 1.9		04.96 → 03.99		LUK	PPS970		
318 is 1.9		04.96 → 03.99	Eng. M44	ZF	PPS059	142	6
318 is 1.9		02.98 → 01.99	Eng. M44	ZF	PPS059	142	6
318 TD 1.7 TD		08.95 → 03.98	Eng. M41	ZF	PPS018	125	5
318 TD 1.7 TD		09.95 → 08.99	Eng. M41	ZF	PPS018	125	5
320 i 2.0		01.95 → 09.95		VICKERS	PPS981	130	6
320 i 2.0		05.94 → 09.95	Eng. M50/52	ZF	PPS269	130	6
320 i 2.0		10.95 → 12.97	Eng. M50/52	LUK	PPS614	135	6
320 i 2.0		04.92 → 09.95	Eng. M50/52	ZF	PPS269	130	6
320 i 2.0		10.95 → 1999	Eng. M50/52	LUK	PPS614	135	6
320 i 2.0		03.95 → 09.95	Eng. M50/52	ZF	PPS269	130	6
320 i 2.0		03.95 → 09.95		LUK	PPS620	130	6
320 i 2.0		03.95 → 09.95		VICKERS	PPS981	130	6
320 i 2.0		10.95 → 12.97	Eng. M50/52	LUK	PPS614	135	6
320 i 2.0		04.91 → 01.95	Eng. M50/52	ZF	PPS269	130	6
320 i 2.0		01.95 → 09.95	Eng. M50/52	LUK	PPS620	130	6
320 i 2.0		10.95 → 09.96	Eng. M50/52	LUK	PPS614	135	6
323 i 2.5		01.97 → 05.00	Eng. M52	LUK	PPS614	135	6
323 i 2.5		03.95 → 09.95	Eng. M52	ZF	PPS269	130	6
323 i 2.5		10.95 → 03.99	Eng. M52	LUK	PPS614	135	6
323 i 2.5		09.96 → 05.98	Eng. M52	LUK	PPS614	135	6
325 i 2.5		04.91 → 09.95		LUK	PPS620	130	6
325 i 2.5		04.91 → 09.95		VICKERS	PPS981	130	6
325 i 2.5		04.91 → 09.95	Eng. M50/52	ZF	PPS269	130	6
325 i 2.5		04.92 → 09.95	Eng. M52	ZF	PPS269	130	6
325 i 2.5		07.93 → 09.95		ZF	PPS269	130	6
325 TD/TDS 2.5 TD/TDS		07.93 → 03.98		LUK	PPS980		
325 TD/TDS 2.5 TD/TDS		07.93 → 03.98	Eng. M51	ZF	PPS359	125	5
325 TDS 2.5 TDS		01.96 → 08.99	Eng. M51	ZF	PPS359	125	5
325 TDS 2.5 TDS		01.96 → 08.99		LUK	PPS980		
328 i 2.8		03.95 → 09.95		LUK	PPS620	130	6
328 i 2.8		03.95 → 09.95		VICKERS	PPS981	130	6
328 i 2.8		03.95 → 09.95	Eng. M52	ZF	PPS269	130	6
328 i 2.8		10.95 → 12.99	Eng. M52	LUK	PPS614	135	6
328 i 2.8		04.92 → 09.95	Eng. M52	ZF	PPS269	130	6
328 i 2.8		10.95 → 1999	Eng. M52	LUK	PPS614	135	6
328 i 2.8		03.95 → 09.95	Eng. M50/52	ZF	PPS269	130	6
328 i 2.8		03.95 → 09.95		LUK	PPS620	130	6
328 i 2.8		03.95 → 09.95		VICKERS	PPS981	130	6
328 i 2.8		10.95 → 08.99	Eng. M50/52	LUK	PPS614	135	6
328 i 2.8		03.95 → 09.95	Eng. M52	ZF	PPS269	130	6
328 i 2.8		10.95 → 03.98	Eng. M52	LUK	PPS614	135	6

3 SERIES (E36) COMPACT							
316 i 1.6		09.94 → 09.95	Eng. M43	ZF	PPS059	142	6
316 i 1.6		09.94 → 09.95		LUK	PPS008		
316 i 1.6		10.95 → 01.01	Eng. M43/44	ZF	PPS059	142	6
316 i 1.6		10.95 → 01.01		LUK	PPS970		
316 i 1.9		01.99 → 01.01	Eng. M44	ZF	PPS059	142	6
316 i 1.9		01.99 → 01.01		LUK	PPS970		
318 TD 1.7 TD		09.95 → 01.01	Eng. M41	ZF	PPS018	125	5

			<b>FOR MANUFACTURER</b>	<b>PATRON</b>	 mm	<b>PORTS</b>	<b>REMARKS</b>
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## BMW






3 SERIES (E36) COMPACT							
318 Ti 1.8	09.94 → 07.95	Eng. M44	LUK	PPS008			
318 Ti 1.8	08.95 → 04.96	Eng. M44	ZF	PPS059	142	6	
318 Ti 1.8	08.95 → 04.96		LUK	PPS970			
318 Ti 1.9	04.96 → 01.01	Eng. M44	ZF	PPS059	142	6	
318 Ti 1.9	04.96 → 01.01		LUK	PPS970			
323 Ti 2.5	08.97 → 2001	Eng. M52	LUK	PPS614	135	6	

3 SERIES (E46)							
316 i 1.9	03.99 → 12.01	Eng. M44	ZF	PPS670			
316 i/Ci/ti 1.8	01.02 →	Eng. N42	ZF	PPS667	135	6	
318 i 1.9	09.98 → 09.01	Eng. M43	ZF	PPS062			
318 i 1.9	05.99 →	Eng. M44	ZF	PPS670			
318 i/Ci/ti 2.0	09.01 →	Eng. N42	ZF	PPS667	135	6	
320 D 2.0	09.99 →	Eng. M47	ZF	PPS537			
320 i 2.2	03.98 → 09.99	Eng. M52	LUK	PPS1027			
320 i 2.2	10.99 →	Eng. M52	LUK	PPS014			
323 i 2.5	03.98 → 09.99	Eng. M52	LUK	PPS1027			
323 i 2.5	10.99 →	Eng. M52	LUK	PPS014			
325 i 2.5	03.98 → 09.99	Eng. M54	LUK	PPS1027			
325 i/ti 2.5	07.00 → 12.00	Eng. M54	LUK	PPS1027			A15
328 i 2.8	02.98 → 09.99	Eng. M52	LUK	PPS1027			
328 i 2.8	10.99 →	Eng. M52	LUK	PPS014			
330 i 3.0	06.00 → 12.00	Eng. M54	LUK	PPS014			



5 SERIES (E12)							
518 1.8	01.75 → 04.81		ZF	PPS559			RS-3x
520/i 2.0	02.73 → 07.81		ZF	PPS559			RS-3x
525 2.5	12.73 → 10.81		ZF	PPS559			RS-3x
528/i 2.8	04.75 → 10.81		ZF	PPS559			RS-3x

5 SERIES (E28)							
518 1.8	10.81 → 10.83		ZF	PPS559			RS-3x
518/i 1.8	10.83 → 12.87		ZF	PPS336	125	1	
520 i 2.0	10.81 → 10.83		ZF	PPS559			RS-3x
520 i 2.0	10.83 → 01.87		ZF	PPS336	125	1	
520 i 2.0	01.87 → 12.87		LUK	PPS969	125	1	2
520 i 2.0	01.87 → 12.87		VICKERS	PPS978	125	1	2
524 D/TD 2.4	01.83 → 01.88		ZF	PPS336	125	1	
524 D/TD 2.4	01.83 → 01.88		LUK	PPS969	125	1	2
524 D/TD 2.4	01.83 → 01.88		VICKERS	PPS978	125	1	2
525 e 2.7	10.81 → 10.83		ZF	PPS559			RS-3x
525 e 2.7	10.83 → 12.87		ZF	PPS336	125	1	
525 e 2.7	10.83 → 12.87		LUK	PPS969	125	1	2
525 e 2.7	10.83 → 12.87		VICKERS	PPS978	125	1	2
525 i 2.5	10.81 → 04.84		ZF	PPS559			RS-3x
525 i 2.5	04.84 → 10.87		ZF	PPS336	125	1	
528 i 2.8	10.81 → 04.84		ZF	PPS559			RS-3x
528 i 2.8	04.84 → 11.87		ZF	PPS336	125	1	
535 i 3.4	01.85 → 11.87		ZF	PPS336	125	1	

5 SERIES (E34)							
518 i 1.8	 08.89 → 09.96	Eng. M40/43	ZF	PPS357	110	1	
518 i 1.8	 03.93 → 09.96	Eng. M40/43	ZF	PPS492	125	5	2
520 i 2.0 12V	01.88 → 08.91	Eng. M20, ×SLS	ZF	PPS320	109	1	2
520 i 2.0 12V	01.88 → 08.91	Eng. M20, SLS	ZF	PPS539			3
520 i 2.0 24V	1988 → 09.91	Eng. M50, ×SLS	ZF	PPS390	135	6	2
520 i 2.0 24V	10.91 → 09.96	Eng. M50, ×SLS	LUK	PPS972	130	6	2

			FOR MANUFACTURER	PATRON	 mm 	PORTS	REMARKS
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## BMW

5 SERIES (E34)							
520 i 2.0 24V	1988 → 09.96	Eng. M50, SLS	ZF	PPS512			3
524 TD 2.4	03.88 → 09.95	Eng. M21, ×SLS	ZF	PPS664			2
524 TD 2.4	03.88 → 09.95	Eng. M21, SLS	ZF	PPS539			3
525 i 2.5 12V	06.88 → 09.90	Eng. M20, ×SLS	ZF	PPS320	109	1	2
525 i 2.5 12V	06.88 → 09.90	Eng. M20, SLS	ZF	PPS539			3
525 i 2.5 24V	1991 → 09.96	4WD, Eng. M50, SLS	ZF	PPS538			3
525 i 2.5 24V	09.90 → 09.91	Eng. M50, ×SLS	ZF	PPS390	135	6	2
525 i 2.5 24V	10.91 → 09.96	Eng. M50, ×SLS	LUK	PPS972	130	6	2
525 i 2.5 24V	09.90 → 09.96	Eng. M50, SLS	ZF	PPS512			3
525 TD/TDS 2.5	06.88 → 09.96	Eng. M51, ×SLS	ZF	PPS492	125	5	2
525 TD/TDS 2.5	06.88 → 09.96	Eng. M51, SLS	ZF	PPS539			3
530 i 3.0 12V	06.88 → 07.90	Eng. M30, ×SLS	ZF	PPS391	120	1	2
530 i 3.0 12V	06.88 → 07.90	Eng. M30, SLS	ZF	PPS512			3
530 i 3.0 32V 	01.93 → 03.96	Eng. M60, ×SLS/ASC	LUK	PPS968	118	6	
535 i 3.4	01.88 → 09.95	Eng. M30, ×SLS	ZF	PPS391	120	1	2
535 i 3.4	01.88 → 09.95	Eng. M30, SLS	ZF	PPS512			3
540 i 4.0 	01.93 → 03.96	Eng. M60, ×SLS/ASC	LUK	PPS968	118	6	





5 SERIES (E39)							
520 i 2.0	04.96 → 09.98	Eng. M52	ZF	PPS017			
520 i 2.0	09.98 → 08.00	Eng. M52	LUK	PPS971			
520 i 2.2	09.00 →	Eng. M54	LUK	PPS971			
523 2.5	09.98 → 09.00	Eng. M52	LUK	PPS971			
523 i 2.5	04.96 → 09.98	Eng. M52	ZF	PPS017			
525 i 2.5	09.00 →	Eng. M54	LUK	PPS971			
525 TD 2.5 12V	04.96 → 09.98	Eng. M51	ZF	PPS364	124	5	
528 i 2.8	04.96 → 09.98	Eng. M52	ZF	PPS017			
528 i 2.8	09.98 → 09.00	Eng. M52	LUK	PPS971			
530 i 3.0	09.00 →	Eng. M54	LUK	PPS971			
535 i 3.5	09.96 →	Eng. M62	LUK	PPS968	118	6	
540 i 4.4	04.96 →	Eng. M62	LUK	PPS968	118	6	

6 SERIES (E24)							
628 CSi 2.8	04.81 → 04.84		ZF	PPS559			RS-3x
628 CSi 2.8	04.84 → 05.87		ZF	PPS336	125	1	
635 CSi 3.4	06.82 → 04.84		ZF	PPS559			RS-3x
635 CSi 3.4	04.84 → 06.87		ZF	PPS336	125	1	
635 CSi 3.4	06.87 → 09.89		ZF	PPS590			
635 CSi 3.5	04.81 → 06.82		ZF	PPS559			RS-3x

7 SERIES (E23)							
728 i 2.8	12.79 → 05.86		ZF	PPS578	140	1	
732 i 3.2	09.79 → 02.86		ZF	PPS578	140	1	
735 i 3.4 / 3.5	10.79 → 03.86		ZF	PPS578	140	1	







7 SERIES (E32)							
730 i 3.0 12V	05.87 → 08.90		VICKERS	PPS977	120	1	2
730 i 3.0 12V	05.87 → 08.90	Eng. M30, ×SLS	ZF	PPS289	120	1	2
730 i 3.0 12V	02.87 → 08.94	Eng. M30, SLS	ZF	PPS369			3 Tandem
735 i 3.4	02.87 → 08.90		VICKERS	PPS977	120	1	2
735 i 3.4	02.87 → 08.90	Eng. M30, ×SLS	ZF	PPS289	120	1	2
735 i 3.4	02.87 → 07.92	Eng. M30, SLS	ZF	PPS369			3 Tandem
750 i 5.0	10.87 → 08.94	Eng. M70, SLS	ZF	PPS369			3 Tandem

7 SERIES (E38)							
725 TDS 2.5	04.96 → 2001	Eng. M51, SLS	ZF	PPS489			3 Tandem
728 i 2.8	02.96 → 02.02	Eng. M52, SLS	ZF	PPS489			3 Tandem

			FOR MANUFACTURER	PATRON	 mm	PORTS	REMARKS
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## BMW

7 SERIES (E38)							
730 i 3.0	08.94 → 05.96	Eng. M60, ×SLS	LUK	PPS635			
730 i 3.0	08.94 → 05.96	Eng. M60, SLS	LUK	PPS633			3 Tandem
735 i 3.5	03.96 → 02.02	Eng. M62, ×SLS	LUK	PPS635			
735 i 3.5	03.96 → 02.02	Eng. M62, SLS	LUK	PPS633			3 Tandem
740 i 4.0	08.94 → 05.96	Eng. M60, ×SLS	LUK	PPS635			
740 i 4.0	08.94 → 05.96	Eng. M60, SLS	LUK	PPS633			3 Tandem
740 i 4.4	03.96 → 02.02	Eng. M62, ×SLS	LUK	PPS635			
740 i 4.4	03.96 → 02.02	Eng. M62, SLS	LUK	PPS633			3 Tandem
750 i 5.4	01.95 → 02.02	Eng. M72, SLS	LUK	PPS633			3 Tandem

M MODELS							
M3 (E36) 3.0	 07.94 → 09.95	Eng. S50	ZF	PPS953			
M3 (E36) 3.0	 05.93 → 09.95	Eng. S50	ZF	PPS953			
M3 (E36) 3.0	 07.94 → 09.95	Eng. S50	ZF	PPS953			
M3 (E36) 3.2	 03.96 → 01.98	Eng. S52	ZF	PPS953			
M3 (E36) 3.2	 03.96 → 03.99	Eng. S52	ZF	PPS953			
M3 (E36) 3.2	 03.96 → 10.99	Eng. S52	ZF	PPS953			
M5 (E12) 3.5	01.80 → 10.81		ZF	PPS559			RS-3x
M5 (E28) 3.4	01.85 → 11.87		ZF	PPS336	125	1	
M6 (E24) 3.5	06.87 → 09.89		ZF	PPS590			
Z3 M 3.2	01.98 →		ZF	PPS953			

Z1							
2.5	10.89 → 06.91		ZF	PPS591			





Z3							
1.8 / 1.9	09.96 →		ZF	PPS494			
2.8	06.97 → 06.00		ZF	PPS495			

			FOR MANUFACTURER	PATRON	 mm	PORTS	REMARKS
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## CHRYSLER

NEON (PL)							
1.8	03.98 → 09.99			PPS471	138	1	
2.0	06.96 → 09.99			PPS471	138	1	

VOYAGER (GS)							
2.0	03.97 → 03.01			PPS303	124	4	
3.3	03.97 → 03.01		SAGINAW	PPS974	158	6	RS-P, A16

			<b>FOR MANUFACTURER</b>	<b>PATRON</b>	 mm mm	<b>PORTS</b>	<b>REMARKS</b>
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## CITROËN

BERLINGO							
1.4	10.98 →		SAGINAW	PPS307	142	5	Pump-Al, IN —
1.4	10.98 →		SAGINAW	PPS964	75	1	Pump-Al
1.4	10.98 →		SAGINAW	PPS965	125	6	Pump-Al
1.4	10.98 →	Incl. AC	SAGINAW	PPS315			Pump-Al, IN —
1.8	06.88 → 10.00		SAGINAW	PPS517	114	6	Pump-Al
1.8	06.88 → 10.00	×AC	SAGINAW	PPS054	133	6	Pump-Al
1.8	06.98 → 10.00	AC	SAGINAW	PPS521	142	6	Pump-Al
1.9 D × Turbo	10.96 →		SAGINAW	PPS517	114	6	Pump-Al
1.9 D × Turbo	04.98 → 11.98		SAGINAW	PPS542	114	6	Pump-Al
1.9 D × Turbo	04.99 →		SAGINAW	PPS517	114	6	Pump-Al
1.9 D × Turbo	10.96 →	×AC	SAGINAW	PPS054	133	6	Pump-Al
1.9 D × Turbo	10.96 → 11.98	AC	SAGINAW	PPS318	114	6	Pump-Fe
1.9 D × Turbo	11.98 →	AC	SAGINAW	PPS542	114	6	Pump-Al
1.9 D × Turbo	04.99 →	AC	SAGINAW	PPS542	114	6	Pump-Al
1.9 TD	04.98 →		SAGINAW	PPS308	114	6	Pump-Al
2.0 Hdi	03.00 →		SAGINAW	PPS535	142	6	Pump-Al
2.0 Hdi	11.02 →		SAGINAW	PPS523		6	






C15/25							
C15 (VD) 1.8 D	10.92 →		SAGINAW	PPS381	75	1	
C25 (280/290) All models	04.87 → 06.94		SAGINAW	PPS024	75	1	
C25 (280/290) All models	04.87 → 06.94		SAGINAW	PPS181	114	6	

EVASION (22/U6)							
1.9 TD	10.95 → 05.00		ZF	PPS302	114	6	L = 113 mm
1.9 TD	10.95 → 05.00		ZF	PPS1018	114	6	L = 107 mm
1.9 TD	10.95 → 05.00		ZF	PPS589	140	6	

JUMPER (230)							
1.9 D	06.94 → 10.01		ZF	PPS658	107	4	
2.5 D/TD	06.94 → 10.01		SAGINAW	PPS037	108	6	

JUMPY (U6U)							
1.9 D	09.96 →		SAGINAW	PPS934	114	6	L = 113 mm
1.9 D	09.96 →		ZF	PPS1018	114	6	L = 107 mm
1.9 TD	09.96 → 06.00		SAGINAW	PPS934	114	6	L = 113 mm
1.9 TD	09.96 → 06.00		ZF	PPS1018	114	6	L = 107 mm

XANTIA (X1/X2)							
1.6 / 1.8	05.93 → 04.01	×Hydractive		PPS197	117	6	2
1.6 / 1.8	05.93 → 04.01	×Hydractive		PPS209	141	6	2
1.9 D	07.93 → 10.95	×Hydractive		PPS197	117	6	2
1.9 D	07.93 → 10.95	×Hydractive		PPS209	141	6	2
1.9 TD	07.93 → 10.00	×Hydractive		PPS197	117	6	2
1.9 TD	07.93 → 10.00	×Hydractive		PPS209	141	6	2
1.9 TD	07.93 → 10.00	Hydractive		PPS312	106	6	3 IN/OUT —
1.9 TD	07.93 → 10.00	Hydractive		PPS256	117	6	3 IN/OUT —
1.9 TD	07.93 → 10.00	Hydractive		PPS238	141	6	3 IN/OUT —
1.9 TD	07.93 → 10.00	Hydractive		PPS675	130	6	3 IN → TO OUT
1.9 TD	07.93 → 10.00	Hydractive		PPS648	141	6	3 IN → TO OUT
2.0	05.93 → 04.01	×Hydractive		PPS197	117	6	2
2.0	05.93 → 04.01	Hydractive		PPS312	106	6	3 IN/OUT —
2.0	05.93 → 04.01	×Hydractive		PPS209	141	6	2
2.0	05.93 → 04.01	Hydractive		PPS256	117	6	3 IN/OUT —
2.0	05.93 → 04.01	Hydractive		PPS675	130	6	3 IN → TO OUT
2.0	05.93 → 04.01	Hydractive		PPS238	141	6	3 IN/OUT —
2.0	05.93 → 04.01	Hydractive		PPS648	141	6	3 IN → TO OUT





			FOR MANUFACTURER	PATRON	 mm 	PORTS	REMARKS
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## CITROËN

XANTIA (X1/X2)								
2.0 D	05.93 → 04.01	×Hydractive		PPS197	117	6	2	
2.0 D	05.93 → 04.01	Hydractive		PPS312	106	6	3	IN/OUT —
2.1 TD	06.97 → 01.99	×Hydractive		PPS197	117	6	2	
2.1 TD	06.97 → 01.99	×Hydractive		PPS209	141	6	2	
2.1 TD	06.97 → 01.99	Hydractive		PPS312	106	6	3	IN/OUT —
2.1 TD	06.97 → 01.99	Hydractive		PPS256	117	6	3	IN/OUT —
2.1 TD	06.97 → 01.99	Hydractive		PPS675	130	6	3	IN → TO OUT
2.1 TD	06.97 → 01.99	Hydractive		PPS238	141	6	3	IN/OUT —
2.1 TD	06.97 → 01.99	Hydractive		PPS648	141	6	3	IN → TO OUT
3.0	06.97 → 10.00	Hydractive		PPS312	106	6	3	IN/OUT —
3.0	06.97 → 10.00	Hydractive		PPS256	117	6	3	IN/OUT —
3.0	06.97 → 10.00	Hydractive		PPS675	130	6	3	IN → TO OUT
3.0	06.97 → 10.00	Hydractive		PPS238	141	6	3	IN/OUT —
3.0	06.97 → 10.00	Hydractive		PPS648	141	6	3	IN → TO OUT





XSARA (N1/N2/N0)								
1.4	11.97 →		SAGINAW	PPS315				Pump-Al, IN —
1.4	11.97 →		SAGINAW	PPS616	142	5		IN →
1.4	11.97 →		SAGINAW	PPS307	142	5		Pump-Al, IN —
1.4	11.97 →		SAGINAW	PPS965	125	6		Pump-Al
1.4	11.97 →		SAGINAW	PPS964	75	1		Pump-Al
1.4	11.97 →	×AC	SAGINAW	PPS283				IN →
1.4	11.97 →	AC	SAGINAW	PPS315				Pump-Al, IN —
1.6	11.97 →		SAGINAW	PPS315				Pump-Al, IN —
1.6	11.97 →		SAGINAW	PPS307	142	5		Pump-Al, IN —
1.6	11.97 →		SAGINAW	PPS616	142	5		IN →
1.6	11.97 →		SAGINAW	PPS054	133	6		Pump-Al
1.6	11.97 →		SAGINAW	PPS517	114	6		Pump-Al
1.6	11.97 →		SAGINAW	PPS965	125	6		Pump-Al
1.6	11.97 →		SAGINAW	PPS964	75	1		Pump-Al
1.6	11.97 →	×AC	SAGINAW	PPS283				IN →
1.6	11.97 →	AC	SAGINAW	PPS315				Pump-Al, IN —
1.8	11.97 →		SAGINAW	PPS517	114	6		Pump-Al, ×SAG. 9632335080
1.8	11.97 →		SAGINAW	PPS541				×SAG. 9636676280
1.8	11.97 →		SAGINAW	PPS948	142	6		
1.8	11.97 →	×AC	SAGINAW	PPS054	133	6		Pump-Al, ×SAG. 9632335080
1.8	11.97 →	AC	SAGINAW	PPS521	142	6		Pump-Al
1.9 D × Turbo	11.97 →		SAGINAW	PPS517	114	6		Pump-Al
1.9 D × Turbo	11.97 →	×AC	SAGINAW	PPS054	133	6		Pump-Al
1.9 D × Turbo	11.97 → 11.98	AC	SAGINAW	PPS318	114	6		Pump-Fe
1.9 D × Turbo	04.98 →	AC	SAGINAW	PPS542	114	6		Pump-Al
1.9 TD	11.97 →		SAGINAW	PPS522	114	6		
1.9 TD	11.97 →		SAGINAW	PPS961	133	6		
2.0 16V	11.97 → 03.98		SAGINAW	PPS389	107	6		Pump-Fe
2.0 16V	03.98 →		SAGINAW	PPS543				Pump-Al
2.0 Hdi	11.98 → 10.00		SAGINAW	PPS368	125	6		
2.0 Hdi	10.00 →		SAGINAW	PPS668	125	6		

XSARA PICASSO (N68)								
1.6	06.00 →	Incl. AC	SAGINAW	PPS942	136	6		6 pcs. A7
1.6	06.00 →	Incl. AC	SAGINAW	PPS1040	136	6		5 pcs. A7
1.8	06.00 →		SAGINAW	PPS053	137	6		
2.0 Hdi	06.00 →		SAGINAW	PPS523		6		

			FOR MANUFACTURER	PATRON	 mm	PORTS	REMARKS
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## CITROËN

ZX (N2)							
1.4 / 1.6	06.91 → 02.98		SAGINAW	PPS181	114	6	
1.4 / 1.6	06.91 → 02.98		SAGINAW	PPS936	142	4	
1.8 i	10.92 → 11.97		SAGINAW	PPS180	133	6	
1.9	06.91 → 02.98		SAGINAW	PPS181	114	6	
1.9	06.91 → 02.98		SAGINAW	PPS180	133	6	
1.9 D/TD	06.91 → 02.98		SAGINAW	PPS181	114	6	
1.9 D/TD	06.91 → 02.98		SAGINAW	PPS180	133	6	
2.0 8V/16V	10.92 → 06.96	×AC	SAGINAW	PPS915	142	6	
2.0 16V	10.92 → 06.96	AC	SAGINAW	PPS451	142	6	

			FOR MANUFACTURER	PATRON	 mm	PORTS	REMARKS
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## DAEWOO

ESPERO (KLEJ)							
1.5	04.95 → 10.97	×AC	SAGINAW	PPS050	142	5	
1.8	04.95 → 10.97		YOUNGSHIN	PPS659	125	5	
1.8	04.95 → 10.97	AC	SAGINAW	PPS609	125	5	
2.0	04.95 → 10.97	AC	YOUNGSHIN	PPS662	140	6	

LEGANZA (KLAJ)							
2.0 CDX	09.97 → 05.98	SSP	SAGINAW	PPS519	142	6	
2.0 CDX	05.98 → 06.02	SSP	SAGINAW	PPS1024	142	6	
2.0 SX	09.97 → 06.02	×SSP	SAGINAW	PPS606			





MATIZ (KLYA)							
800	09.98 →			PPS639	100	4	

MUSSO (FJ)							
2.3	03.99 → 12.01			PPS571		6	
2.9 TD	03.99 → 12.01			PPS571		6	

NEXIA (KLETN)							
1.5	04.95 → 10.97	×AC	SAGINAW	PPS050	142	5	





NUBIRA (KLAJ)							
1.6 SE	09.97 → 07.99	AC	SAGINAW	PPS638	128	6	
1.6 SE	07.99 → 06.02	AC	SAGINAW	PPS1023	128	6	A9
2.0 CDX	09.97 → 06.02	AC	SAGINAW	PPS610	140	6	



			FOR MANUFACTURER	PATRON	 mm	PORTS	REMARKS
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## DAIHATSU

APPLAUSE (A101, A111)							
1.6	01.90 → 12.95	×AC		PPS470	100	3	
CHARADE							
1.3 (G200)	06.93 → 03.01	×AC	ATSUGI	PPS420	113	5	
1.5 (G201)	10.94 → 04.00	×AC	ATSUGI	PPS420	113	5	
1.6 (G203)	07.93 → 03.96	×AC	ATSUGI	PPS420	113	5	
GRAND MOVE (G3)							
1.5	03.97 → 10.98		KOYO	PPS645	88	3	
TERIOS (J1)							
1.3	08.97 →			PPS490			
WILDCAT / ROCKY (F70/F75)							
2.8 TD	10.85 → 07.93	×AC	TOYOTA	PPS560	102	5	
2.8 TD	07.93 → 03.02	×AC, Independent	TOYOTA	PPS593			

			FOR MANUFACTURER	PATRON	 mm	PORTS	REMARKS
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## FIAT

BARCHETTA (183)							
1.8 16V	09.95 →		SAGINAW/ZF	PPS912	130	6	
BRAVA (182)							
1.2 16V	02.99 → 12.01		SAGINAW/ZF	PPS338	127	3	
1.4	12.95 → 02.99		SAGINAW/ZF	PPS912	130	6	
1.6	12.95 → 12.01		SAGINAW	PPS916	133	3	
1.8	12.95 → 03.01		SAGINAW/ZF	PPS912	130	6	
1.9 TD	10.96 → 12.01		SAGINAW/ZF	PPS912	130	6	
BRAVO (182)							
1.2 16V	02.99 → 12.01		SAGINAW/ZF	PPS338	127	3	
1.4	12.95 → 02.99		SAGINAW/ZF	PPS912	130	6	
1.6	06.96 → 12.01		SAGINAW	PPS916	133	3	
1.8	12.95 → 03.01		SAGINAW/ZF	PPS912	130	6	
1.9 TD	10.96 → 12.01		SAGINAW/ZF	PPS912	130	6	
2.0 HGT	03.97 → 10.00		ZF	PPS374			
COUPE (FA/175)							
2.0 16V/16V Turbo	06.95 → 10.96	×AC	SAGINAW/ZF	PPS265			
2.0 16V/16V Turbo	06.95 → 10.96	AC	SAGINAW/ZF	PPS469			
2.0 20V/20V Turbo	11.96 → 02.00		ZF	PPS379			
CROMA (154)							
2.0 8V/8V Turbo	05.86 → 01.94		ZF	PPS253	135	1	
2.0 16V	08.91 → 01.94		ZF	PPS496			

			FOR MANUFACTURER	PATRON	 mm	PORTS	REMARKS
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## FIAT

DUCATO (230)							
1.9 D/TD	06.94 → 04.02		ZF	PPS658	107	4	Belt
1.9 D/TD	06.94 → 04.02	CH →  5201037	ZF	PPS262			× Belt
1.9 D/TD	06.94 → 04.02	CH 5201038  →	SAGINAW/ZF	PPS239			× Belt
1.9 D/TD (10 Model)	06.94 → 04.02		SAGINAW/ZF	PPS246	145	1	Belt
2.0	06.94 → 12.96	CH 5355651  →	ZF	PPS658	107	4	
2.0 (10, 14 Models)	06.94 → 12.96	CH →  5355650	ZF	PPS372	97	1	
2.5 D/TD	06.94 → 04.98	CH 5201038  →	SAGINAW/ZF	PPS239			× Belt
2.5 D/TD	06.94 → 04.98	CH 5276446  →	SAGINAW/ZF	PPS239			× Belt
2.5 D/TD (10, 14 Models)	06.94 → 04.98	CH →  5201037	ZF	PPS262			× Belt
2.5 D/TD (18 Maxi)	06.94 → 04.98	CH →  5276445	ZF	PPS262			× Belt
2.8 D/TD	04.98 → 04.02	CH 5201038  →	SAGINAW/ZF	PPS239			× Belt
2.8 D/TD	04.98 → 04.02	CH 5276446  →	SAGINAW/ZF	PPS239			× Belt
2.8 D/TD (14 Model)	04.98 → 04.02	CH →  5201037	ZF	PPS262			× Belt
2.8 D/TD (18 Maxi)	04.98 → 04.02	CH →  5276445	ZF	PPS262			× Belt

MAREA (185)							
1.6	03.97 → 04.02		SAGINAW	PPS916	133	3	
1.8	03.97 → 12.00		SAGINAW/ZF	PPS912	130	6	
1.9 TD	03.97 → 04.02		SAGINAW/ZF	PPS912	130	6	
2.0	03.97 → 04.02		ZF	PPS374			
2.4 TD	03.97 → 12.00		ZF	PPS373			

PALIO (178BX)							
1.4 Kat	04.96 →			PPS1048			
1.6 16V	04.96 →			PPS1048			

PALIO WEEKEND (178DX)							
1.6 16V (178DX.D1A)	04.96 → 02.01			PPS1048			
1.6 16V (178DYC1A06)	02.01 →			PPS1048			





PUNTO (176)							
1.2	03.94 →		SAGINAW/ZF	PPS338	127	3	
1.4 GT Turbo	03.94 → 09.99		SAGINAW/ZF	PPS246	145	1	
1.6	08.94 → 05.97		SAGINAW/ZF	PPS246	145	1	
1.7 D/TD	03.94 → 09.99		SAGINAW/ZF	PPS324	143	3	

REGATA (138)							
1.6	08.86 → 09.90		ZF	PPS468			

SCUDO (220L/P)							
1.9 D/TD	09.96 →		ZF	PPS467	114	6	L = 113 mm
1.9 D/TD	09.96 →		ZF	PPS677	114	6	L = 107 mm

SIENA (178_)							
1.4 Kat	04.96 →			PPS1048			





TEMPRA (159)							
1.4	09.90 → 04.92		ZF	PPS253	135	1	
1.6 Auto	09.90 → 12.95		ZF	PPS540	140	1	
1.6 Man	09.90 → 07.93		ZF	PPS253	135	1	
1.6 Man	07.93 → 12.95		SAGINAW/ZF	PPS246	145	1	
1.8	09.90 → 05.92		ZF	PPS321	136	1	
1.9 D/TD	09.90 → 07.93		ZF	PPS266	140	1	
1.9 D/TD	07.93 → 12.95		SAGINAW/ZF	PPS324	143	3	
2.0	06.92 → 07.93		ZF	PPS321	136	1	
2.0	07.93 → 12.95		SAGINAW/ZF	PPS265			

			FOR MANUFACTURER	PATRON	 mm	PORTS	REMARKS
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## FIAT

TIPO (160)							
1.4	06.88 → 10.92	CH →  8127852	ZF	PPS253	135	1	
1.4	06.88 → 10.92	CH 8127852  →	SAGINAW/ZF	PPS246	145	1	
1.6	1993 → 10.95	CH 8860208  → 9132449	SAGINAW/ZF	PPS246	145	1	
1.6 Auto	1988 → 10.95		ZF	PPS540	140	1	
1.6 Man	06.88 → 10.92	CH →  8127852	ZF	PPS253	135	1	
1.6 Man	06.88 → 1993	CH 8127852  →	SAGINAW/ZF	PPS246	145	1	
1.6 Man	1993 → 10.95	CH →  8860208	ZF	PPS540	140	1	
1.7 D	10.88 → 1993		ZF	PPS919			
1.7 D	10.88 → 1993		TOYOTA	PPS367	140	1	
1.7 D	1993 → 10.95		SAGINAW/ZF	PPS324	143	3	
1.8	09.90 → 01.92		ZF	PPS321	136	1	
1.8	01.92 → 1993		ZF	PPS253	135	1	
1.8	1993 → 1995		SAGINAW/ZF	PPS265			
1.9 TD	06.88 → 1993		ZF	PPS919			
1.9 TD	06.88 → 1993		TOYOTA	PPS367	140	1	
1.9 TD	1993 → 10.95		SAGINAW/ZF	PPS324	143	3	
2.0 8V	02.93 → 10.95		SAGINAW/ZF	PPS265			
2.0 16V	01.92 → 1993		ZF	PPS253	135	1	
2.0 16V	1993 → 10.95	AC	SAGINAW/ZF	PPS469			

ULYSSE (220)							
1.9 TD	10.95 → 01.00		ZF	PPS302	114	6	L = 113 mm
1.9 TD	10.95 → 01.00		ZF	PPS1018	114	6	L = 107 mm
1.9 TD	10.95 → 01.00		ZF	PPS589	140	6	






			FOR MANUFACTURER	PATRON	 mm	PORTS	REMARKS
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## FORD

COUGAR (EC_)							
2.5 V6	10.98 → 10.00	Eng. Duratec	VISTEON	PPS483	152	6	

ESCORT (AVL)							
1.3 8V	12.91 → 02.94		SAGINAW	PPS045			
1.4 8V	11.97 →		VISTEON	PPS224	142	6	ID: HBD BD, HBD BU
1.8 D	01.91 →		SAGINAW	PPS191	147	5	
1.8 TD	10.95 →		SAGINAW/ VISTEON	PPS245	110	5	ID: HBD BZ

ESCORT (GAL)							
1.3 8V	09.90 → 01.95		SAGINAW	PPS045			
1.4 8V	09.90 → 01.95		SAGINAW	PPS045			
1.6 8V SOHC	09.90 → 10.92		SAGINAW	PPS045			
1.6 16V DOHC	01.92 → 10.94	Eng. Zetec	SAGINAW	PPS192	147	5	
1.6 16V DOHC	10.92 → 10.94	Eng. Zetec	SAGINAW	PPS192	147	5	
1.6 16V DOHC	10.94 → 01.95	Eng. Zetec	VISTEON	PPS933	142	6	
1.6 16V DOHC	10.94 → 05.95	Eng. Zetec	VISTEON	PPS933	142	6	
1.8 D/TD	08.90 → 01.95	×AC	SAGINAW	PPS191	147	5	

			FOR MANUFACTURER	PATRON	 mm 	PORTS	REMARKS
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## FORD

ESCORT (GAL)							
1.8 D/TD	09.90 → 09.94	AC	SAGINAW	PPS191	147	5	
1.8 D/TD	09.94 → 01.95	AC	VISTEON	PPS355	80	4	ID: HBD CG
2.0 Cosworth Turbo	06.92 → 01.95		SAGINAW	PPS356			
2.0 RS 2000	09.91 → 01.95	Eng. Zetec	SAGINAW	PPS301	116	6	

ESCORT (GAL, AAL, ABL)							
1.3 8V	01.95 → 01.99		VISTEON	PPS224	142	6	ID: HBD BD, HBD BU
1.4 8V	01.95 → 01.99	×AC	VISTEON	PPS224	142	6	ID: HBD BD, HBD BU
1.4 8V	01.95 → 01.99	AC	SAGINAW	PPS045			
1.6 16V	01.95 → 07.00	Eng. Zetec	VISTEON	PPS224	142	6	ID: HBD BD, HBD BU
1.8 16V	01.95 → 01.99	Eng. Zetec	VISTEON	PPS224	142	6	ID: HBD BD, HBD BU
1.8 D × Turbo	01.95 → 01.97		SAGINAW	PPS191	147	5	
1.8 TD	01.95 → 07.00	×AC	SAGINAW/ VISTEON	PPS245	110	5	ID: HBD BZ
1.8 TD	01.95 → 07.00	AC	VISTEON	PPS355	80	4	ID: HBD CG
2.0 Cosworth Turbo	01.95 → 12.95		SAGINAW	PPS356			
2.0 RS 2000	01.95 → 07.96	Eng. Zetec	SAGINAW	PPS301	116	6	





EXPLORER (U2)							
4.0 V6	01.97 → 05.01			PPS465			

FIESTA (GFJ)							
1.1 8V	01.94 → 12.95		VISTEON	PPS203	110	4	ID: HBD BF
1.3 8V	01.94 → 12.95		VISTEON	PPS203	110	4	ID: HBD BF
1.4 8V	02.94 → 12.95		VISTEON	PPS464			ID: HBD AW
1.6 16V	02.94 → 12.95	Eng. Zetec	VISTEON	PPS280	122	6	ID: HBD AR
1.8 D	01.94 → 12.95		VISTEON	PPS300	80	4	ID: HBD CC
1.8 D	04.94 → 12.95		VISTEON	PPS463			ID: HBD AS

FIESTA (JA_, JB_)							
1.25 16V	10.95 → 04.99	Incl. AC, Eng. Zetec	VISTEON	PPS313	120	6	ID: HBD BJ
1.25 16V	04.99 → 02.02	Incl. AC, Eng. Zetec	VISTEON	PPS986	120	6	ID: HBD CM
1.3 8V	01.98 → 02.02	Eng. JJ	SAGINAW/ VISTEON	PPS462	120	6	
1.3 8V	01.98 → 02.02	Eng. J4	SAGINAW/ VISTEON	PPS261	120	6	ID: HBD BS, L = 107 mm / A1, Pulley 96mf3a733ae
1.3 8V	01.98 → 02.02		VISTEON	PPS557	120	6	ID: HBD BS, L = 116 mm / A2, Pulley 96bf3a733ad
1.3 8V	10.95 → 01.98	Incl. AC	SAGINAW/ VISTEON	PPS462	120	6	
1.4	03.96 → 1999	Eng. Zetec	VISTEON	PPS313	120	6	ID: HBD BJ
1.4	1999 → 10.00	Eng. Zetec	VISTEON	PPS649	120	6	ID: HBD BH
1.6 16V	03.00 → 02.02	Eng. Zetec	VISTEON	PPS954	125	6	ID: HBD FX
1.8 D	12.95 → 1999		SAGINAW/ VISTEON	PPS245	110	5	ID: HBD BZ
1.8 TD	02.00 → 02.02		VISTEON	PPS657	116	6	ID: HBD FG

FIESTA (JH_)							
1.25 16V	03.02 →		VISTEON	PPS1041	124	6	ID: HBD HO
1.25 16V	03.02 →		VISTEON	PPS683	77	5	ID: HBD HP
1.4 TDCi/TD	03.02 →		KAYABA	PPS672	126	6	

FIESTA COURIER (F3L, F5L)							
1.8 D	02.94 → 09.96		VISTEON	PPS300	80	4	ID: HBD CC
1.8 D	02.94 → 09.96		VISTEON	PPS463			ID: HBD AS

			<b>FOR MANUFACTURER</b>	<b>PATRON</b>	 mm	<b>PORTS</b>	<b>REMARKS</b>
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## FORD

FIESTA COURIER (J5_, J3_)							
1.3	09.96 → 09.98		SAGINAW/ VISTEON	PPS462	120	6	
1.8 D	09.96 → 1999		SAGINAW/ VISTEON	PPS245	110	5	ID: HBD BZ
1.8 TD	03.00 →		VISTEON	PPS657	116	6	ID: HBD FG

FOCUS (DAW/DBW/DFW/DNW)							
1.4 16V	10.98 →	AC, Eng. Zetec	VISTEON	PPS613	135	6	ID: HBD CX, HBD GA
1.6 16V	10.98 →		VISTEON	PPS954	125	6	ID: HBD FX
1.6 16V	10.98 →	Eng. Zetec, Sensor	VISTEON	PPS1002	125	6	ID: HBD CY
1.6 16V	10.98 →	AC, Eng. Zetec	VISTEON	PPS613	135	6	ID: HBD CX, HBD GA
1.8 16V	10.98 →	Eng. Zetec	VISTEON	PPS370	127	6	ID: HBD CV, HBD FY
1.8 TDi/TD	10.98 →		VISTEON	PPS951	127	6	ID: HBD CT
2.0 16V	10.98 →	Eng. Zetec	VISTEON	PPS370	127	6	ID: HBD CV, HBD FY
2.0 16V ST170	03.02 →	Eng. Duratec VVT	VISTEON	PPS1015	126	6	ID: HBD HA

FUSION (JU_)							
1.4 TDCi/TD	08.02 →		KAYABA	PPS672	126	6	





GALAXY (VX, VY)							
1.9 TD	06.95 →		ZF	PPS004	104	1	
1.9 TD	06.95 →		KAYABA	PPS663	120	6	L = 108 mm
1.9 TD	06.95 →		KAYABA	PPS686	120	6	L = 98 mm
2.0 8V	06.95 → 02.99		ZF	PPS931	112	6	
2.3 16V	01.97 →		ZF	PPS931	112	6	
2.8 V6	06.95 → 09.96		ZF	PPS461			
2.8 V6	09.96 →		ZF	PPS460			

KA (RB_)							
1.3	09.96 →		SAGINAW/ VISTEON	PPS261	120	6	ID: HBD BS, L = 107 mm / A1, Pulley 96mf3a733ae
1.3	09.96 →		VISTEON	PPS557	120	6	ID: HBD BS, L = 116 mm / A2, Pulley 96bf3a733ad

MAVERICK (UDS, UNS)							
2.4	07.93 → 12.97		KAYABA	PPS353	127	1	
2.7 TD	07.93 → 12.97		ZF	PPS208	135	1	

MONDEO (GBP/BNP/BAP/BFP)							
1.6	02.93 → 09.00	Eng. Zetec	VISTEON	PPS185	129	6	ID: HBD AE
1.8	02.93 → 02.99	Eng. Zetec	VISTEON	PPS185	129	6	ID: HBD AE
1.8	02.99 →	Eng. Zetec	VISTEON	PPS1032	125	6	ID: HBD FS
1.8 TD	02.93 → 08.96		SAGINAW	PPS179	63	5	
1.8 TD	08.96 → 09.00		SAGINAW	PPS202	63	5	
2.0	02.99 →	Eng. Zetec	VISTEON	PPS666	135	6	ID: HBD EC
2.0	02.93 → 02.99	Eng. Zetec	VISTEON	PPS185	129	6	ID: HBD AE
2.0	02.99 → 09.00	Eng. Zetec	VISTEON	PPS365	127	6	ID: HBD EB
2.0	10.00 →	Eng. Duratec	VISTEON	PPS666	135	6	ID: HBD EC
2.0 Di/TD SOHC	10.00 → 05.02		ZF	PPS1022	63	5	
2.0 TDCi/TD DOHC	11.01 →		HOBOURN	PPS076	64	4	A5
2.5 V6	10.94 → 08.96		VISTEON	PPS914	152	6	ID: HBD AD
2.5 V6	08.96 → 09.00		VISTEON	PPS483	152	6	

ORION (GAL)							
1.4 8V	09.90 → 08.93		SAGINAW	PPS045			
1.6 8V SOHC	09.90 → 10.92		SAGINAW	PPS045			

			FOR MANUFACTURER	PATRON	 mm	PORTS	REMARKS
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## FORD

ORION (GAL)							
1.6 16V DOHC	10.92 → 08.93	Eng. Zetec	SAGINAW	PPS192	147	5	
1.8 16V DOHC	01.92 → 08.93	Eng. Zetec	SAGINAW	PPS192	147	5	
1.8 D	09.90 → 08.93		SAGINAW	PPS191	147	5	

PROBE (ECP)							
2.0 16V	03.94 → 09.97		KAYABA	PPS352	130	5	
2.5 24V	03.94 → 09.97		KAYABA	PPS279	119	4	





PUMA (EC_)							
1.4	02.98 → 10.00	×AC	VISTEON	PPS455	119	6	ID: HBD CL
1.6	10.00 →	×AC	VISTEON	PPS455	119	6	ID: HBD CL
1.7	06.97 → 06.02	×AC	VISTEON	PPS455	119	6	ID: HBD CL

SCORPIO							
1.8 8V	05.85 → 08.88		SAGINAW	PPS247			IR
2.0	10.94 → 10.97		ZF	PPS047	134	6	
2.0 DOHC	01.89 → 01.92		SAGINAW	PPS187	150	6	
2.0 SOHC	01.86 → 06.89		SAGINAW	PPS247			IR
2.3	05.96 → 06.98		ZF	PPS047	134	6	
2.4 V6	01.87 → 08.89		SAGINAW	PPS195	123		
2.5 D	01.86 → 11.88		SAGINAW	PPS187	150	6	
2.5 TD	12.88 → 01.92		SAGINAW	PPS422	137	1	
2.5 TD	09.93 → 03.95		SAGINAW	PPS911			
2.5 TD	10.94 → 06.98		ZF	PPS260			
2.9	10.94 → 06.98		ZF	PPS047	134	6	
2.9 12V	01.87 → 01.92		SAGINAW	PPS195	123		
2.9 12V	02.92 → 07.92		SAGINAW	PPS930			
2.9 12V	07.92 → 03.95		SAGINAW	PPS195	123		
2.9 24V	02.91 → 01.92		SAGINAW	PPS459			
2.9 24V Cosworth	02.92 → 10.94		SAGINAW	PPS244			

SIERRA (GBC/BNC)							
2.0	10.82 → 03.87		SAGINAW	PPS566			
2.3	10.82 → 03.87		SAGINAW	PPS566			
2.8	12.82 → 03.87		SAGINAW	PPS566			

SIERRA (GBC/GBG/GB4/BNG)							
1.8	03.87 → 04.93		SAGINAW	PPS259			
1.8 TD	02.90 → 04.93		SAGINAW	PPS187	150	6	
2.0 DOHC Incl. Cosworth	03.87 → 04.93		SAGINAW	PPS187	150	6	
2.0 SOHC	03.87 → 08.89		SAGINAW	PPS247			IR
2.3 D	03.87 → 02.90		SAGINAW	PPS187	150	6	
2.8 V6	03.87 → 10.88		SAGINAW	PPS195	123		
2.9 V6	01.89 → 04.93		SAGINAW	PPS195	123		



TRANSIT (T_)							
1.6 (80/100/110)	01.86 → 08.91		SAGINAW	PPS304			
2.0 (100L/130/160/190)	02.86 → 08.89		HOBOURN	PPS929			
2.0 (100L/130/160/190)	08.89 → 10.91		SAGINAW	PPS304			
2.0 (80/100/120)	02.86 → 10.91		SAGINAW	PPS304			
2.5 D (100L/130/160/190)	02.86 → 08.89		HOBOURN	PPS299			
2.5 D (100L/130/160/190)	08.89 → 10.91		HOBOURN	PPS484			3
2.5 D (80/100/110/120)	02.86 → 10.91		HOBOURN	PPS484			3
2.9 V6 (160/190)	01.89 → 10.91		HOBOURN	PPS298			

			FOR MANUFACTURER	PATRON	 mm	PORTS	REMARKS
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## FORD




TRANSIT (E_)							
2.0	10.91 → 09.94		SAGINAW	PPS351		2	
2.0	09.94 → 03.00	Standard duty	FORD	PPS453			
2.0	09.94 → 03.00	Heavy duty	VISTEON	PPS350	152	1	ID: HBD BA
2.5 D	10.91 → 10.92		SAGINAW	PPS218	153	1	
2.5 D	10.92 → 09.94		VISTEON	PPS199	150	1	ID: HBD AL
2.5 D	09.94 → 03.00	Heavy duty	VISTEON	PPS350	152	1	ID: HBD BA
2.5 D	09.94 → 03.00	×AC	VISTEON	PPS194	120	1	ID: HBD CP
2.5 D	09.94 → 03.00	AC, Standard Rating	VISTEON	PPS046			
2.9 V6	10.91 → 09.94		SAGINAW	PPS452	152	6	





TRANSIT (F_)							
2.0 TD	10.00 →		HOBOURN	PPS077	64	4	A5
2.4 TD	03.00 →		VISTEON	PPS641	125	7	ID: HBD EX, RS-P

			FOR MANUFACTURER	PATRON	 mm	PORTS	REMARKS
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## HONDA

ACCORD III (CA)								
2.0 SOHC	 / 	11.85 → 11.89	Eng. A20A	HONDA	PPS450	110	1	ID: Ph1

ACCORD IV (CB/CC)								
2.0		09.89 → 06.94	Eng. F20A	HONDA	PPS1001	116	4	ID: Pt0
2.2		09.89 → 06.94	Eng. F22A	HONDA	PPS1001	116	4	ID: Pt0
2.2		04.91 → 06.94	Eng. F22A	HONDA	PPS1001	116	4	ID: Pt0





ACCORD V								
2.0		06.94 → 11.97	Eng. F20B	HONDA	PPS1005	110	4	ID: P0a
2.0		06.94 → 11.97	Eng. F20B	HONDA	PPS1005	110	4	ID: P0a
2.2		06.94 → 11.97	Eng. F22B	HONDA	PPS1005	110	4	ID: P0a
2.2		06.94 → 11.97	Eng. F22B	HONDA	PPS1005	110	4	ID: P0a

ACCORD VI (CG/CH)								
2.0	 /  / 	10.98 → 01.03	Eng. F20B	HONDA	PPS1004	103	4	

BALLADE (HJ)								
1.5		10.86 → 11.89	Eng. EW	HONDA	PPS449	110	1	

CIVIC III								
1.35		02.84 → 02.85	Eng. EV2	HONDA	PPS449	110	1	
1.5		02.84 → 03.88	Eng. EW2, Carb.	HONDA	PPS449	110	1	
1.5 i		02.84 → 08.87	Eng. EW3	HONDA	PPS449	110	1	
1.6 i		04.86 → 08.87	Eng. ZC1	HONDA	PPS447	110	1	

CIVIC IV								
1.35		08.87 → 11.91	Eng. D13B	HONDA	PPS1000	110	1	ID: Pm3

			FOR MANUFACTURER	PATRON	 mm	PORTS	REMARKS
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## HONDA

CIVIC V							
1.35	11.91 → 03.96	Eng. D13B	HONDA	PPS278	110	4	ID: P02
1.5	11.91 → 03.96	Eng. D15B	HONDA	PPS278	110	4	ID: P02

CIVIC VI							
1.5 SOHC	03.95 → 12.00	Eng. D15Z	HONDA	PPS514	110	4	

CONCERTO (HW)							
1.4	10.89 → 08.91	Eng. D14A1	HONDA	PPS448	110	1	
1.5	08.91 → 09.94	Eng. D15B2	HONDA	PPS1000	110	1	ID: Pm3
1.6 DOHC	10.89 → 09.94	Eng. D16A	HOBOURN	PPS250	118	1	Pump-Fe
1.6 SOHC	10.89 → 09.94	Eng. D16Z	HONDA	PPS1000	110	1	ID: Pm3





CR-V							
2.0 (RD18)	06.97 → 01.02	Eng. B20B3	HONDA	PPS1029	110	4	
2.0 (RD87/RD88)	02.02 →	Eng. K20A4		PPS1030			

INTEGRA (DA17)							
1.6	03.86 → 11.89	Eng. D16A	HONDA	PPS447	110	1	

LEGEND (KA)							
2.7	1988 → 04.91	Eng. C27A2	HONDA	PPS446		1	
3.2	04.91 → 06.96	Eng. C32A	HONDA	PPS466	120	4	

PRELUDE III (BA)							
2.0	10.87 → 04.92	Incl. 4WS, Eng. B20A	HONDA	PPS445	110	1	

PRELUDE IV (BB)							
2.2	02.93 → 09.96	Eng. H22A	HONDA	PPS354	103	3	

			FOR MANUFACTURER	PATRON	 mm	PORTS	REMARKS
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## HYUNDAI





ACCENT (X-3)							
1.5 16V	10.94 → 12.99		YOUNGSHIN	PPS362	95	4	

ATOS (MX)							
1.0 12V	05.98 → 10.00		YOUNGSHIN	PPS612	106	1	

COUPE (RD)							
2.0 16V	10.96 → 01.02		YOUNGSHIN	PPS458	107	1	

LANTRA I (J-1)							
1.6 16V	06.91 → 10.95		KAYABA	PPS297		1	
1.8 16V	10.92 → 10.95		KAYABA	PPS297		1	







			FOR MANUFACTURER	PATRON	 mm	PORTS	REMARKS
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## HYUNDAI

LANTRA II (J-2)							
1.6 16V	11.95 → 03.01		YOUNGSHIN	PPS458	107	1	
1.8 16V	11.95 → 02.97		YOUNGSHIN	PPS458	107	1	
2.0 16V	02.97 → 03.01		YOUNGSHIN	PPS458	107	1	

S COUPE (SLC)							
1.5	07.90 → 10.95		KAYABA	PPS277	94	4	





SONATA II (Y-3)							
1.8 8V	06.89 → 10.92			PPS349			
2.0 8V/16V	06.89 → 12.93			PPS349			
2.4 8V	06.89 → 01.92			PPS349			

			FOR MANUFACTURER	PATRON	 mm	PORTS	REMARKS
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## ISUZU





TROOPER (JBS)							
2.8 TD	01.88 → 10.91		KAYABA	PPS223	102	2	

TROOPER (JB)							
3.1 TD	02.92 → 05.98		KAYABA	PPS223	102	2	
3.2 V6	02.92 → 05.98		KAYABA	PPS581	139	1	

			FOR MANUFACTURER	PATRON	 mm	PORTS	REMARKS
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## IVECO

DAILY							
2.0	1989 → 1991		ZF	PPS036			
2.5 D/TD	1989 → 1991		ZF	PPS036			

			FOR MANUFACTURER	PATRON	 mm	PORTS	REMARKS
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## JAGUAR

### S-TYPE (CCX)

2.5 V6	03.02 →		VISTEON	PPS647	135	6	ID: HBD DK
3.0 V6	03.99 →		VISTEON	PPS647	135	6	ID: HBD DK

### X-TYPE (CF1)

2.5 V6	05.01 →		VISTEON	PPS647	135	6	ID: HBD DK
3.0 V6	05.01 →		VISTEON	PPS647	135	6	ID: HBD DK

### XJ6/8/12





2.9	10.86 → 09.90		SAGINAW	PPS561			Gear Driven
3.2	09.90 → 09.94		SAGINAW	PPS561			Gear Driven
3.6	10.86 → 09.89		SAGINAW	PPS561			Gear Driven
4.0	09.89 → 09.94		SAGINAW	PPS561			Gear Driven
5.3	10.86 → 09.92		SAGINAW	PPS561			Gear Driven
6.0	02.93 → 09.94		SAGINAW	PPS561			Gear Driven

### XJS

3.6	1986 → 05.91		SAGINAW	PPS561			Gear Driven
5.3	1986 → 05.91		SAGINAW	PPS561			Gear Driven
6.0	09.89 → 05.91		SAGINAW	PPS561			Gear Driven

### XK8 (Q\_)





4.0	10.96 → 07.02	*Kompressor	HOBOURN	PPS562			
4.0	08.98 → 07.02	Kompressor	HOBOURN	PPS1021			

			FOR MANUFACTURER	PATRON	 mm	PORTS	REMARKS
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## JEEP

### CHEROKEE (XJ)





2.5 i	01.93 → 03.01		SAGINAW	PPS274	135	6	
4.0	01.93 → 09.01		SAGINAW	PPS274	135	6	

			FOR MANUFACTURER	PATRON	 mm	PORTS	REMARKS
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## KIA

### SPORTAGE (K00)

2.0	07.95 → 07.02		YOUNGSHIN	PPS661	112	1	
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			FOR MANUFACTURER	PATRON		PORTS	REMARKS
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## LANCIA

### DEDRA (835)

1.6	03.90 → 01.94	CH →  450502	SAGINAW/ZF	PPS442				
1.6	03.90 → 01.94	CH 450502  →	SAGINAW/ZF	PPS246	145	1		
1.8 / 2.0	03.90 → 01.94		SAGINAW/ZF	PPS442				

### DELTA

2.0 4x4/Integrale	05.87 → 01.95		ZF	PPS575	150	5		
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			FOR MANUFACTURER	PATRON		PORTS	REMARKS
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## LAND ROVER

### DEFENDER (LD)

2.5	09.90 → 07.94		HOBOURN	PPS227	96	2		
2.5 D/TD 4 Cyl.	09.90 → 03.94		HOBOURN	PPS227	96	2		
2.5 D/TD 4 Cyl.	03.94 → 11.98		HOBOURN	PPS188				Pump-Al/Fe
2.5 TD 5 Cyl.	11.98 →		HOBOURN	PPS188				Pump-Al/Fe

### DISCOVERY





2.5 TD 4 Cyl.	11.89 → 03.94		HOBOURN	PPS227	96	2		
2.5 TD 4 Cyl.	04.94 →		HOBOURN	PPS188				Pump-Al/Fe
2.5 Td5 5 Cyl.	10.98 →		HOBOURN	PPS188				Pump-Al/Fe
2.5 Td5 5 Cyl.	04.01 →		HOBOURN	PPS684				A5
3.9 V8	09.93 → 10.98		ZF	PPS580				

### FREELANDER (LN)

1.8 4 Cyl.	12.97 →		HOBOURN	PPS485				
2.0 TD 4 Cyl.	12.97 →		HOBOURN	PPS653				A5

### RANGE ROVER II (LP)

2.5 TD 6 Cyl.	09.94 → 02.02	Eng. BMW	ZF	PPS488				
4.0 V8	09.94 → 02.02		ZF	PPS594				
4.6 V8	09.94 → 02.02		ZF	PPS594				

			FOR MANUFACTURER	PATRON	 mm	PORTS	REMARKS
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## LDV

200							
1.9	09/94 → 06/96		SAGINAW	PPS1046	139	1	
2.0	04/89 → 12/94		SAGINAW	PPS1046	139	1	
2.0 D	04/89 → 12/94		SAGINAW	PPS1046	139	1	

400							
2.5 D Incl. Turbo	04/89 → 4/96	Eng. Peugeot	SAGINAW	PPS1047	140	1	

CONVOY							
2.5 D/TD	04/96 → 10/97		SAGINAW	PPS187	150	6	
2.5 D × Turbo	10/97 →		SAGINAW	PPS626	150	1	Pump-AI





PILOT							
1.9 D	04/96 →		SAGINAW	PPS193	114	4	
1.9 D	04/96 →		SAGINAW	PPS625	141	5	

			FOR MANUFACTURER	PATRON	 mm	PORTS	REMARKS
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## LEXUS

GS 300							
3.0	10.93 → 10.97			PPS563		6	





LS							
LS400	06.90 → 10.00			PPS564		6	

			FOR MANUFACTURER	PATRON	 mm	PORTS	REMARKS
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## MAZDA

121 II (DB)							
1.3	02.91 → 10.95	Eng. Zetec		PPS441			

121 III (JA, JB)							
1.25	03.96 → 10.98		SAGINAW	PPS932	117	6	
1.3	03.96 → 01.98	Efil Low Pressure	SAGINAW/ VISTEON	PPS462	120	6	
1.3	01.98 → 10.98	Efin Normal Pressure	SAGINAW/ VISTEON	PPS462	120	6	
1.3	01.98 → 10.98		SAGINAW/ VISTEON	PPS261	120	6	ID: HBD BS
1.8 D	03.96 → 07.97		SAGINAW/ VISTEON	PPS245	110	5	ID: HBD BZ

			FOR MANUFACTURER	PATRON	 mm	PORTS	REMARKS
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## MAZDA

### 323 III (BF)

1.3	03.88 → 01.90		KAYABA	PPS348	140	4		
1.6 Incl. Turbo	10.86 → 10.89		KAYABA	PPS348	140	4		

### 323 III (BW)

1.5	 01.90 → 05.91		KAYABA	PPS348	140	4		
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### 323 IV (BG)

1.3	10.89 → 06.94		KAYABA	PPS440	140	4		
1.6	10.89 → 06.94		KAYABA	PPS440	140	4		
1.8	10.89 → 06.94		KAYABA	PPS440	140	4		

### 323 V (BA)

1.3 16V	06.94 → 05.98		KAYABA	PPS439	118	4		IN-Fe
1.3 16V	06.94 → 05.98		KAYABA	PPS678	118	4		IN-P
1.5 16V	08.94 → 10.98		KAYABA	PPS439	118	4		IN-Fe
1.5 16V	08.94 → 10.98		KAYABA	PPS678	118	4		IN-P
1.8 16V	11.94 → 10.98		KAYABA	PPS439	118	4		IN-Fe
1.8 16V	11.94 → 10.98		KAYABA	PPS678	118	4		IN-P

### 626 II (GC)

2.0	05.83 → 10.87		ATSUGI	PPS574	140	5		
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### 626 III (GD, GV)

1.8	10.87 → 02.92		KAYABA	PPS251	140	5		
2.0	10.87 → 01.93		KAYABA	PPS251	140	5		
2.2	01.90 → 01.93		KAYABA	PPS251	140	5		

### 626 IV (GE)

1.8 16V	02.92 → 06.97		KAYABA	PPS294	129	5		
2.0 16V	02.92 → 06.97		KAYABA	PPS294	129	5		
2.5 V6	02.92 → 12.94		KAYABA	PPS279	119	4		

### MX-3 (EC)

1.6 / 1.8	09.91 → 10.98		UNISIAJECS	PPS347	120	4		
1.6 / 1.8	09.91 → 10.98		KAYABA	PPS1006	118	4		

### MX-5 I (NA)

1.6 / 1.8	01.90 → 04.98			PPS438	124	4		
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### MX-5 II (NB)

1.6 / 1.8	05.98 →			PPS656	124	4		
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### MX-6 (GE)



2.5	02.92 → 06.97		KAYABA	PPS279	119	4		
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### XEDOS 6 (CA)

1.6	10.93 → 10.97		KAYABA	PPS294	129	5		
2.0	06.92 → 01.00		KAYABA	PPS294	129	5		





### XEDOS 9 (TA)

2.3	10.98 → 08.01			PPS928				
2.5	01.94 → 10.98			PPS928				

			FOR MANUFACTURER	PATRON	 mm	PORTS	REMARKS
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## MERCEDES

190							
1.8	06.90 → 09.93	Eng. 102.910/102.919	VICKERS	PPS979	160	6	
1.8	06.90 → 09.93	Eng. 102.910/102.919	VICKERS	PPS983	160	6	
1.8 Auto	06.90 → 09.93	Eng. 102.910/102.919	ZF	PPS524	160	6	
1.8 Man	06.90 → 09.93	Eng. 102.910/102.919	ZF	PPS258	165	6	
2.0	09.83 → 09.90	Eng. 102.924, Carb.	VICKERS	PPS979	160	6	
2.0	09.83 → 09.90	Eng. 102.924, Carb.	VICKERS	PPS983	160	6	
2.0 Auto	09.83 → 09.90	Eng. 102.924, Carb., Mot. Code →  008906	ZF	PPS258	165	6	
2.0 Auto	09.83 → 09.90	Eng. 102.924, Carb., Mot. Code 008907  →	ZF	PPS524	160	6	
2.0 Man	09.83 → 09.90	Eng. 102.924, Carb., Mot. Code →  034587	ZF	PPS258	165	6	
2.0 Man	09.83 → 09.90	Eng. 102.924, Carb., Mot. Code 034588  →	ZF	PPS524	160	6	
2.0 D	10.84 → 09.93	Eng. 601.911	VICKERS	PPS979	160	6	
2.0 D	10.84 → 09.93	Eng. 601.911	VICKERS	PPS983	160	6	
2.0 D	10.84 → 09.93	Eng. 601.911, Mot. Code 066454  → 098425	VICKERS	PPS979	160	6	
2.0 D Auto	10.84 → 09.93	Eng. 601.911, Mot. Code →  006847	ZF	PPS363			IR
2.0 D Auto	10.84 → 09.93	Eng. 601.911, Mot. Code 006848  →	ZF	PPS258	165	6	
2.0 D Auto	10.84 → 09.93	Eng. 601.911, Mot. Code 009625  →	ZF	PPS524	160	6	
2.0 D Man	10.84 → 09.93	Eng. 601.911	ZF	PPS258	165	6	
2.0 D Man	10.84 → 09.93	Eng. 601.911, Mot. Code →  066453	ZF	PPS363			IR
2.0 D Man	10.84 → 09.93	Eng. 601.911, Mot. Code 098426  →	ZF	PPS524	160	6	
2.0i E	09.83 → 09.93	Eng. 102.962	VICKERS	PPS979	160	6	
2.0i E	09.83 → 09.93	Eng. 102.962	VICKERS	PPS983	160	6	
2.0i E Auto	09.83 → 09.93	Eng. 102.962, 83/85/87 kW, Mot. Code →  008906	ZF	PPS258	165	6	
2.0i E Auto	09.83 → 09.93	Eng. 102.962, 83/85/87 kW, Mot. Code 008907  →	ZF	PPS524	160	6	
2.0i E Auto	09.83 → 09.93	Eng. 102.962, 90 kW, Mot. Code →  068666	ZF	PPS258	165	6	
2.0i E Auto	09.83 → 09.93	Eng. 102.962, 90 kW, Mot. Code 068667  →	ZF	PPS524	160	6	
2.0i E Man	09.83 → 09.93	Eng. 102.962, 83/85/87 kW, Mot. Code →  034587	ZF	PPS258	165	6	
2.0i E Man	09.83 → 09.93	Eng. 102.962, 83/85/87 kW, Mot. Code 034588  →	ZF	PPS524	160	6	
2.0i E Man	09.83 → 09.93	Eng. 102.962, 90 kW, Mot. Code →  135684	ZF	PPS258	165	6	
2.0i E Man	09.83 → 09.93	Eng. 102.962, 90 kW, Mot. Code 135685  →	ZF	PPS524	160	6	
2.3 E 8V	09.86 → 08.93	Eng. 102.985	VICKERS	PPS979	160	6	
2.3 E 8V	09.86 → 08.93	Eng. 102.985	VICKERS	PPS983	160	6	
2.3 E 8V Auto	09.86 → 08.93	Eng. 102.985, Mot. Code →  040748	ZF	PPS258	165	6	
2.3 E 8V Auto	09.86 → 08.93	Eng. 102.985, Mot. Code 040749  →	ZF	PPS524	160	6	
2.3 E 8V Man	09.86 → 08.93	Eng. 102.985, Mot. Code →  004391	ZF	PPS258	165	6	
2.3 E 8V Man	09.86 → 08.93	Eng. 102.985, Mot. Code 004392  →	ZF	PPS524	160	6	
2.3 E 16V	04.84 → 08.88	Eng. 102.983	VICKERS	PPS983	160	6	
2.3 E 16V Auto	04.84 → 08.88	Eng. 102.983	VICKERS	PPS983	160	6	
2.3 E 16V Man	04.84 → 08.88	Eng. 102.983, Mot. Code →  001531	ZF	PPS363			IR

			FOR MANUFACTURER	PATRON	 mm	PORTS	REMARKS
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## MERCEDES

190							
2.3 E 16V Man	04.84 → 08.88	Eng. 102.983, Mot. Code 001532  →	ZF	PPS544			2 IR, Tandem
2.5 16V	09.88 → 01.93	Eng. 102.990	VICKERS	PPS983	160	6	
2.5 16V	09.88 → 01.93	Eng. 102.990	ZF	PPS525			
2.5 D	04.85 → 09.93	Eng. 602.911	VICKERS	PPS979	160	6	
2.5 D	04.85 → 09.93	Eng. 602.911	VICKERS	PPS983	160	6	
2.5 D Auto	04.85 → 09.93	Eng. 602.911, Mot. Code →  000203	ZF	PPS258	165	6	
2.5 D Auto	04.85 → 09.93	Eng. 602.911, Mot. Code 000204  →	ZF	PPS524	160	6	
2.5 D Man	04.85 → 09.93	Eng. 602.911, Mot. Code →  000721	ZF	PPS258	165	6	
2.5 D Man	04.85 → 09.93	Eng. 602.911, Mot. Code 000722  →	ZF	PPS524	160	6	
2.5 TD	02.88 → 08.93	Eng. 602.961	VICKERS	PPS983	160	6	
2.5 TD	02.88 → 08.93	Eng. 602.961, *SLS	ZF	PPS524	160	6	
2.6 E	03.87 → 09.93	Eng. 103.942, *SLS	ZF	PPS545	132	6	

601/602							
208 D 2.3	08.88 → 06.95	Eng. 601.940, Mot. Code →  221937	VICKERS	PPS624	130	6	
208 D 2.3	08.88 → 06.95	Eng. 601.940, Mot. Code 221938  →	LUK	PPS621			
210 2.3 Auto	05.89 → 02.96	Eng. 102.945, Mot. Code 001971  →	LUK	PPS621			
210 2.3 Man	05.89 → 02.96	Eng. 102.945, Mot. Code 015293  →	LUK	PPS621			
210 D 2.9	06.89 → 02.96	Eng. 602.940, Mot. Code →  221936	VICKERS	PPS624	130	6	
210 D 2.9	06.89 → 02.96	Eng. 602.940, Mot. Code 221937  →	LUK	PPS621			
308 D 2.3	11.88 → 02.96	Eng. 601.940, Mot. Code →  221937	VICKERS	PPS624	130	6	
308 D 2.3	11.88 → 02.96	Eng. 601.940, Mot. Code 221938  →	LUK	PPS621			
310 D 2.9	06.89 → 02.96	Eng. 602.940, Mot. Code →  221936	VICKERS	PPS624	130	6	
310 D 2.9	06.89 → 02.96	Eng. 601.940, Mot. Code 221937  →	LUK	PPS621			

A-CLASS (W168)							
A140 1.4	09.98 →		LUK	PPS950			Electric
A160 1.6	09.98 →		LUK	PPS950			Electric
A170 1.7 D	07.98 →		LUK	PPS950			Electric





C-CLASS (W202)							
C180 1.8	10.93 → 08.00	Eng. 111.920	LUK	PPS988	130	6	IR
C180 1.8	10.93 → 08.00	Eng. 111.920	LUK	PPS993		3	IR, Tandem
C180 1.8	10.93 → 08.00	Eng. 111.921	LUK	PPS988	130	6	IR
C180 1.8 Auto	10.93 → 08.00	Eng. 111.920, SLS/ASD	ZF	PPS546			IR-Fe
C180 1.8 Auto	10.93 → 08.00	Eng. 111.920, *SLS/ASD, Mot. Code →  082686	ZF	PPS382	165	6	IR
C180 1.8 Auto	10.93 → 08.00	Eng. 111.920, *SLS/ASD, Mot. Code 082687  →	ZF	PPS437			IR
C180 1.8 Auto	10.93 → 08.00	Eng. 111.921, SLS/ASD	ZF	PPS546			IR-Fe
C180 1.8 Auto	10.93 → 08.00	Eng. 111.921, *SLS/ASD	ZF	PPS437			IR
C180 1.8 Man	10.93 → 08.00	Eng. 111.920, SLS/ASD	ZF	PPS546			IR-Fe
C180 1.8 Man	10.93 → 08.00	Eng. 111.920, *SLS/ASD, Mot. Code →  181391	ZF	PPS382	165	6	IR
C180 1.8 Man	10.93 → 08.00	Eng. 111.920, *SLS/ASD, Mot. Code 181392  →	ZF	PPS437			IR

			FOR MANUFACTURER	PATRON	 mm 	PORTS	REMARKS
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## MERCEDES

C-CLASS (W202)							
C180 1.8 Man	10.93 → 08.00	Eng. 111.921, SLS/ASD	ZF	PPS546			IR-Fe
C180 1.8 Man	10.93 → 08.00	Eng. 111.921, ×SLS/ASD	ZF	PPS437			IR
C200 2.0	01.94 → 08.00	Eng. 111.941	LUK	PPS988	130	6	IR
C200 2.0	01.94 → 08.00	Eng. 111.941	LUK	PPS990			IR-Fe
C200 2.0	01.94 → 08.00	Eng. 111.944	LUK	PPS988	130	6	IR
C200 2.0	01.94 → 08.00	Eng. 111.944, SLS/ASD	ZF	PPS546			IR-Fe
C200 2.0	01.94 → 08.00	Eng. 111.944, ×SLS/ASD	ZF	PPS437			IR
C200 2.0	01.94 → 08.00	Eng. 111.945	LUK	PPS988	130	6	IR
C200 2.0 Auto	01.94 → 08.00	Eng. 111.941, SLS/ASD	ZF	PPS546			IR-Fe
C200 2.0 Auto	01.94 → 08.00	Eng. 111.941, ×SLS/ASD, Mot. Code →  034154	ZF	PPS382	165	6	IR
C200 2.0 Auto	01.94 → 08.00	Eng. 111.941, ×SLS/ASD, Mot. Code 034155  →	ZF	PPS437			IR
C200 2.0 Auto	01.94 → 08.00	Eng. 111.945, SLS/ASD	ZF	PPS546			IR-Fe
C200 2.0 Auto	01.94 → 08.00	Eng. 111.945, ×SLS/ASD	ZF	PPS437			IR
C200 2.0 Man	01.94 → 08.00	Eng. 111.941, SLS/ASD	ZF	PPS546			IR-Fe
C200 2.0 Man	01.94 → 08.00	Eng. 111.941, ×SLS/ASD, Mot. Code →  028943	ZF	PPS382	165	6	IR
C200 2.0 Man	01.94 → 08.00	Eng. 111.941, ×SLS/ASD, Mot. Code 028944  →	ZF	PPS437			IR
C200 2.0 Man	01.94 → 08.00	Eng. 111.945, SLS/ASD	ZF	PPS546			IR-Fe
C200 2.0 Man	01.94 → 08.00	Eng. 111.945, ×SLS/ASD	ZF	PPS437			IR
C220 2.2	10.93 → 08.95	Eng. 111.961	LUK	PPS993			3 IR, Tandem
C220 2.2 Auto	10.93 → 07.96	Eng. 111.961, SLS/ASD	ZF	PPS546			IR-Fe
C220 2.2 Auto	10.93 → 08.95	Eng. 111.961, ×SLS/ASD, Mot. Code →  084259	ZF	PPS382	165	6	IR
C220 2.2 Auto	09.95 → 07.96	Eng. 111.961, ×SLS/ASD, Mot. Code 084260  →	ZF	PPS437			IR
C220 2.2 Man	10.93 → 07.96	Eng. 111.961, SLS/ASD	ZF	PPS546			IR-Fe
C220 2.2 Man	10.93 → 08.95	Eng. 111.961, ×SLS/ASD, Mot. Code →  024580	ZF	PPS382	165	6	IR
C220 2.2 Man	09.95 → 07.96	Eng. 111.961, ×SLS/ASD, Mot. Code 024581  →	ZF	PPS437			IR
C220 D 2.2 D	10.93 → 08.95	Eng. 604.910	LUK	PPS619	143	6	IR-P, Tandem
C220 D 2.2 D	10.93 → 08.95	Eng. 604.910	LUK	PPS990			IR-Fe
C220 D 2.2 D	10.93 → 07.96	Eng. 604.910	LUK	PPS993			3 IR, Tandem
C220 D 2.2 D	10.93 → 05.98	Eng. 604.910	LUK	PPS993			3 IR, Tandem
C220 D 2.2 D Auto	10.93 → 07.96	Eng. 604.910, SLS/ASD	ZF	PPS546			IR-Fe
C220 D 2.2 D Auto	10.93 → 08.95	Eng. 604.910, ×SLS/ASD, Mot. Code →  011548	ZF	PPS382	165	6	IR
C220 D 2.2 D Auto	09.95 → 05.98	Eng. 604.910, ×SLS/ASD, Mot. Code 011548  →	ZF	PPS918			IR-P
C220 D 2.2 D Man	10.93 → 05.98	Eng. 604.910, SLS/ASD	ZF	PPS546			IR-Fe
C220 D 2.2 D Man	10.93 → 08.95	Eng. 604.910, ×SLS/ASD, Mot. Code →  057398	ZF	PPS382	165	6	IR
C220 D 2.2 D Man	09.95 → 05.98	Eng. 604.910, ×SLS/ASD, Mot. Code 057399  →	ZF	PPS918			IR-P
C220 TD 2.2 TD	02.99 → 08.00	Eng. 611.960	LUK	PPS619	143	6	IR-P, Tandem
C220 TD 2.2 TD	02.99 → 08.00	Eng. 611.960	LUK	PPS993			3 IR, Tandem
C220 TD 2.2 TD	02.99 → 08.00	Eng. 611.960, SLS/ASD	ZF	PPS546			IR-Fe
C220 TD 2.2 TD	02.99 → 08.00	Eng. 611.960, ×SLS/ASD	ZF	PPS918			IR-P
C230 2.3	10.95 → 08.00	Eng. 111.975	LUK	PPS988	130	6	IR
C230 2.3	10.95 → 08.00	Eng. 111.975, SLS/ASD	ZF	PPS546			IR-Fe
C230 2.3	10.95 → 08.00	Eng. 111.975, ×SLS/ASD	ZF	PPS437			IR
C230 2.3	06.96 → 08.97	Eng. 111.974	LUK	PPS988	130	6	IR
C230 2.3	06.96 → 08.97	Eng. 111.974, SLS/ASD	ZF	PPS546			IR-Fe
C230 2.3	06.96 → 08.97	Eng. 111.974, ×SLS/ASD	ZF	PPS437			IR
C240 2.4	06.97 → 08.00	Eng. 112.910	LUK	PPS1025	130	6	
C240 2.4 Auto	06.97 → 08.00	Eng. 112.910, SLS/ASD	ZF	PPS548			IR







			FOR MANUFACTURER	PATRON	 mm	PORTS	REMARKS
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## MERCEDES

C-CLASS (W202)							
C240 2.4 Auto	06.97 → 08.00	Eng. 112.910, ×SLS/ASD	ZF	PPS035			
C250 D 2.5 D	10.93 → 07.96	Eng. 605.910, SLS/ASD	ZF	PPS550	160	6	IR-Fe
C250 D 2.5 D	10.93 → 12.95	Eng. 605.910, ×SLS/ASD	ZF	PPS549	160	6	IR-Fe
C250 D 2.5 D	01.96 → 07.96	Eng. 605.910, ×SLS/ASD	ZF	PPS918			IR-P
C250 TD 2.5 TD	01.96 → 08.00	Eng. 605.960	LUK	PPS619	143	6	IR-P, Tandem
C250 TD 2.5 TD	01.96 → 08.00	Eng. 605.960, SLS/ASD	ZF	PPS550	160	6	IR-Fe
C250 TD 2.5 TD	01.96 → 08.00	Eng. 605.960, ×SLS/ASD	ZF	PPS918			IR-P
C280 2.8 DOHC	01.96 → 05.00	Eng. 104.941	LUK	PPS1031			IR-Fe
C280 2.8 DOHC Auto	03.94 → 06.97	Eng. 104.941, SLS/ASD, Mot. Code →  001354	ZF	PPS596	132	6	
C280 2.8 DOHC Auto	06.97 → 12.97	Eng. 104.941, SLS/ASD, Mot. Code 001355  →	ZF	PPS546			IR-Fe
C280 2.8 DOHC Auto	07.94 → 01.96	Eng. 104.941, ×SLS/ASD	LUK	PPS989	130	6	IR-P
C280 2.8 DOHC Auto	01.96 → 05.00	Eng. 104.941, ×SLS/ASD, Mot. Code →  034966	ZF	PPS595	132	6	IR
C280 2.8 DOHC Man	03.94 → 06.97	Eng. 104.941, SLS/ASD, Mot. Code →  004058	ZF	PPS596	132	6	
C280 2.8 DOHC Man	06.97 → 12.97	Eng. 104.941, SLS/ASD, Mot. Code 004059  →	ZF	PPS546			IR-Fe
C280 2.8 DOHC Man	07.94 → 01.96	Eng. 104.941, ×SLS/ASD	LUK	PPS989	130	6	IR-P
C280 2.8 DOHC Man	01.96 → 05.00	Eng. 104.941, ×SLS/ASD, Mot. Code →  004058	ZF	PPS595	132	6	IR
C280 2.8 SOHC V6	03.97 → 08.00	Eng. 112.920	LUK	PPS1025	130	6	
C280 2.8 SOHC V6	03.97 → 08.00	Eng. 111.920, SLS/ASD	ZF	PPS548			IR
C280 2.8 SOHC V6	03.97 → 08.00	Eng. 112.920, ×SLS/ASD	ZF	PPS035			
C36 AMG 3.6	01.96 → 05.00	Eng. 104.941	LUK	PPS1031			IR-Fe
C36 AMG 3.6 Auto	07.94 → 06.97	Eng. 104.941, SLS/ASD, Mot. Code →  034966	ZF	PPS596	132	6	
C36 AMG 3.6 Auto	06.97 → 05.00	Eng. 104.941, SLS/ASD, Mot. Code 034967  →	ZF	PPS546			IR-Fe
C36 AMG 3.6 Auto	07.94 → 01.96	Eng. 104.941, ×SLS/ASD	LUK	PPS989	130	6	IR-P
C36 AMG 3.6 Auto	01.96 → 05.00	Eng. 104.941, ×SLS/ASD, Mot. Code →  034966	ZF	PPS595	132	6	IR
C36 AMG 3.6 Man	07.94 → 06.97	Eng. 104.941, SLS/ASD, Mot. Code →  004058	ZF	PPS596	132	6	
C36 AMG 3.6 Man	06.97 → 05.00	Eng. 104.941, SLS/ASD, Mot. Code 004059  →	ZF	PPS546			IR-Fe
C36 AMG 3.6 Man	07.94 → 01.96	Eng. 104.941, ×SLS/ASD	LUK	PPS989	130	6	IR-P
C36 AMG 3.6 Man	01.96 → 05.00	Eng. 104.941, ×SLS/ASD, Mot. Code →  004058	ZF	PPS595	132	6	IR
C43 AMG 4.3	08.97 → 03.01	Eng. 113.944	LUK	PPS1025	130	6	
C43 AMG 4.3 Auto	08.97 → 03.01	Eng. 113.944	ZF	PPS035			

C-CLASS (W203)							
C180 2.0	09.00 → 06.02	×SLS	LUK	PPS1026	130	6	
C200 2.0 Kompressor	09.00 → 06.02	Eng. 111.955, ×SLS	LUK	PPS1026	130	6	
C230 2.3 Kompressor	05.01 → 06.02	Eng. 111.983	LUK	PPS1026	130	6	

CLK (W208)							
CLK200 2.0	06.97 → 06.00	Eng. 111.945	LUK	PPS988	130	6	IR
CLK200 2.0	06.97 → 06.00	Eng. 111.945, SLS/ASD	ZF	PPS546			IR-Fe
CLK200 2.0	06.97 → 06.00	Eng. 111.945, ×SLS/ASD	ZF	PPS437			IR
CLK200 2.0 Kompressor	06.00 → 05.02	Eng. 111.944	LUK	PPS988	130	6	IR
CLK200 2.0 Kompressor	06.00 → 05.02	Eng. 111.944, SLS/ASD	ZF	PPS546			IR-Fe
CLK200 2.0 Kompressor	06.00 → 05.02	Eng. 111.944, ×SLS/ASD	ZF	PPS437			IR
CLK230 2.3 Kompressor	06.97 → 05.02	Eng. 111.975	LUK	PPS988	130	6	IR
CLK230 2.3 Kompressor	06.97 → 05.02	Eng. 111.975, SLS/ASD	ZF	PPS546			IR-Fe
CLK230 2.3 Kompressor	06.97 → 05.02	Eng. 111.975, ×SLS/ASD	ZF	PPS437			IR
CLK320 3.2	06.97 → 05.02	Eng. 112.940	LUK	PPS1025	130	6	




			<b>FOR MANUFACTURER</b>	<b>PATRON</b>	 mm mm	<b>PORTS</b>	<b>REMARKS</b>
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## MERCEDES

<b>CLK (W208)</b>							
CLK320 3.2	06.97 → 05.02	Eng. 112.940, SLS/ASD	ZF	PPS548			IR
CLK320 3.2	06.97 → 05.02	Eng. 112.940, ×SLS/ASD	ZF	PPS035			
CLK430 4.3	05.99 → 05.02	Eng. 113.943	ZF	PPS035			
CLK430 4.3	05.99 → 05.02	Eng. 113.943	LUK	PPS1025	130	6	
CLK55 5.4 AMG	05.99 → 05.02	Eng. 113.980	ZF	PPS035			
CLK55 5.4 AMG	05.99 → 05.02	Eng. 113.980	LUK	PPS1025	130	6	





<b>E-CLASS (W123)</b>							
200 D 2.0 D	09.76 → 11.85		ZF	PPS346			IR
230/i 2.3	09.76 → 12.85		ZF	PPS346			IR
240 D 2.4 D	09.76 → 11.85		ZF	PPS346			IR
250 2.5	09.76 → 12.85		ZF	PPS346			IR
280 2.7	09.76 → 11.85		ZF	PPS346			IR
300 D 3.0 D	09.76 → 11.85		ZF	PPS346			IR

<b>E-CLASS (W124)</b>							
E200 D 2.0	10/85 → 10/95	Eng. 601.912	LUK	PPS990			IR-Fe
E200 D 2.0	10/85 → 10/95	Eng. 601.912	LUK	PPS993		3	IR, Tandem
E200 D 2.0	10/85 → 10/95	Eng. 601.912	LUK	PPS997		4	IR-Fe, Tandem
E200 D 2.0	10/85 → 10/95	Eng. 601.912	VICKERS	PPS995			IR-Fe
E200 D 2.0	10/85 → 10/95	Eng. 601.912	VICKERS	PPS996			IR-Fe
E200 D 2.0	10/85 → 10/95	Eng. 601.912, SLS/ASD	ZF	PPS551			IR-Fe
E200 D 2.0 Auto	10/85 → 10/95	Eng. 601.912, ×SLS/ASD, Mot. Code →  016741	ZF	PPS547	160	6	
E200 D 2.0 Auto	10/85 → 10/95	Eng. 601.912, ×SLS/ASD, Mot. Code 016742  →	ZF	PPS382	165	6	IR
E200 D 2.0 Man	10/85 → 10/95	Eng. 601.912, ×SLS/ASD, Mot. Code →  177811	ZF	PPS547	160	6	
E200 D 2.0 Man	10/85 → 10/95	Eng. 601.912, ×SLS/ASD, Mot. Code 177812  →	ZF	PPS382	165	6	IR
E200 E/TE 2.0	09/88 → 10/95	Eng. 111.940	LUK	PPS990			IR-Fe
E200 E/TE 2.0	09/88 → 10/95	Eng. 111.940	LUK	PPS993		3	IR, Tandem
E200 E/TE 2.0	09/88 → 10/95	Eng. 111.940	LUK	PPS997		4	IR-Fe, Tandem
E200 E/TE 2.0	09/88 → 10/95	Eng. 111.940	VICKERS	PPS995			IR-Fe
E200 E/TE 2.0	09/88 → 10/95	Eng. 111.940, SLS/ASD	ZF	PPS546			IR-Fe
E200 E/TE 2.0	09/88 → 10/95	Eng. 111.940, ×SLS/ASD	ZF	PPS382	165	6	IR
E200 E/TE 2.0	09/88 → 08/92	Eng. 102.963	LUK	PPS990			IR-Fe
E200 E/TE 2.0	09/88 → 08/92	Eng. 102.963	VICKERS	PPS995			IR-Fe
E200 E/TE 2.0	09/88 → 08/92	Eng. 102.963	VICKERS	PPS996			IR-Fe
E200 E/TE 2.0 Auto	09/88 → 08/92	Eng. 102.963, Mot. Code →  032138	ZF	PPS547	160	6	
E200 E/TE 2.0 Auto	09/88 → 08/92	Eng. 102.963, Mot. Code 032139  →	ZF	PPS382	165	6	IR
E200 E/TE 2.0 Man	09/88 → 08/92	Eng. 102.963, Mot. Code →  113167	ZF	PPS547	160	6	
E200 E/TE 2.0 Man	09/88 → 08/92	Eng. 102.963, Mot. Code 113168  →	ZF	PPS382	165	6	IR
E200 T 2.0	10/85 → 09/88	Eng. 102.922	VICKERS	PPS996			IR-Fe
E200 T 2.0	10/85 → 09/88	Eng. 102.922	ZF	PPS547	160	6	
E220 E/TE/CE	10/92 → 10/95	Eng. 111.960	LUK	PPS993		3	IR, Tandem
E220 E/TE/CE	10/92 → 10/95	Eng. 111.960	LUK	PPS997		4	IR-Fe, Tandem
E220 E/TE/CE	10/92 → 10/95	Eng. 111.960, SLS/ASD	ZF	PPS546			IR-Fe
E220 E/TE/CE	10/92 → 10/95	Eng. 111.960, ×SLS/ASD	ZF	PPS382	165	6	IR
E230 E/TE/CE 2.3	10/85 → 10/92	Eng. 102.982	LUK	PPS990			IR-Fe
E230 E/TE/CE 2.3	10/85 → 10/92	Eng. 102.982	VICKERS	PPS995			IR-Fe
E230 E/TE/CE 2.3	10/85 → 10/92	Eng. 102.982	VICKERS	PPS996			IR-Fe
E230 E/TE/CE 2.3 Auto	10/85 → 10/92	Eng. 102.982, Mot. Code →  207643	ZF	PPS547	160	6	

			FOR MANUFACTURER	PATRON	 mm	PORTS	REMARKS
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## MERCEDES





E-CLASS (W124)							
E230 E/TE/CE 2.3 Auto	10/85 → 10/92	Eng. 102.982, Mot. Code 207644  →	ZF	PPS382	165	6	IR
E230 E/TE/CE 2.3 Man	10/85 → 10/92	Eng. 102.982, Mot. Code →  191947	ZF	PPS547	160	6	
E230 E/TE/CE 2.3 Man	10/85 → 10/92	Eng. 102.982, Mot. Code 191948  →	ZF	PPS382	165	6	IR
E250 D 2.5	10/85 → 10/95	Eng. 602.912	VICKERS	PPS992			IR-Fe
E250 D 2.5	10/85 → 10/95	Eng. 602.962, SLS/ASD	ZF	PPS550	160	6	IR-Fe
E250 D 2.5	08/93 → 10/95	Eng. 605.911, SLS/ASD	ZF	PPS550	160	6	IR-Fe
E250 D 2.5	09/88 → 10/95	Eng. 602.962	VICKERS	PPS992			IR-Fe
E250 D 2.5 Auto	10/85 → 10/95	Eng. 602.912, ×SLS/ASD, Mot. Code →  033431	ZF	PPS552	160	6	IR
E250 D 2.5 Auto	10/85 → 10/95	Eng. 602.912, ×SLS/ASD, Mot. Code 033432  →	ZF	PPS549	160	6	IR-Fe
E250 D 2.5 Auto	09/88 → 10/95	Eng. 602.962, ×SLS/ASD, Mot. Code →  012820	ZF	PPS552	160	6	IR
E250 D 2.5 Auto	09/88 → 10/95	Eng. 602.962, ×SLS/ASD, Mot. Code 012821  →	ZF	PPS549	160	6	IR-Fe
E250 D 2.5 Man	10/85 → 10/95	Eng. 602.912, ×SLS/ASD, Mot. Code →  207624	ZF	PPS552	160	6	IR
E250 D 2.5 Man	10/85 → 10/95	Eng. 602.912, ×SLS/ASD, Mot. Code 207625  →	ZF	PPS549	160	6	IR-Fe
E250 D 2.5 Man	09/88 → 10/95	Eng. 602.962, ×SLS/ASD, Mot. Code →  17907	ZF	PPS552	160	6	IR
E250 D 2.5 Man	09/88 → 10/95	Eng. 602.962, ×SLS/ASD, Mot. Code 17908  →	ZF	PPS549	160	6	IR-Fe
E260 E 2.6	10/85 → 10/92	Eng. 103.940, SLS/ASD	ZF	PPS544		2	IR, Tandem
E260 E 2.6	10/85 → 10/92	Eng. 103.940	VICKERS	PPS975		2	IR, Tandem
E260 E 2.6	10/85 → 10/92	Eng. 103.940	VICKERS	PPS987		4	IR, Tandem
E280 E 2.8	10/92 → 10/95	Eng. 104.942	LUK	PPS990			IR-Fe
E280 E 2.8	10/92 → 10/95	Eng. 104.942	LUK	PPS993		3	IR, Tandem
E280 E 2.8	10/92 → 10/95	Eng. 104.942	LUK	PPS997		4	IR-Fe, Tandem
E280 E 2.8	10/92 → 10/95	Eng. 104.942	VICKERS	PPS995			IR-Fe
E280 E 2.8 Auto	10/92 → 10/95	Eng. 104.942, ×SLS/ASD, Mot. Code →  048696	ZF	PPS595	132	6	IR
E280 E 2.8 Auto	10/92 → 10/95	Eng. 104.942, ×SLS/ASD, Mot. Code 048697  → 056361	ZF	PPS382	165	6	IR
E280 E 2.8 Auto	10/92 → 10/95	Eng. 104.942, ×SLS/ASD, Mot. Code 056362  → 056823	ZF	PPS549	160	6	IR-Fe
E280 E 2.8 Auto	10/92 → 10/95	Eng. 104.942, ×SLS/ASD, Mot. Code 056824  →	ZF	PPS382	165	6	IR
E280 E 2.8 Man	10/92 → 10/95	Eng. 104.942, SLS/ASD, Mot. Code →  005789	ZF	PPS596	132	6	
E280 E 2.8 Man	10/92 → 10/95	Eng. 104.942, SLS/ASD, Mot. Code 005790  →	ZF	PPS546			IR-Fe
E280 E 2.8 Man	10/92 → 10/95	Eng. 104.942, ×SLS/ASD, Mot. Code →  005789	ZF	PPS595	132	6	IR
E280 E 2.8 Man	10/92 → 10/95	Eng. 104.942, ×SLS/ASD, Mot. Code 005790  → 006363	ZF	PPS382	165	6	IR
E280 E 2.8 Man	10/92 → 10/95	Eng. 104.942, ×SLS/ASD, Mot. Code 006364  → 006367	ZF	PPS549	160	6	IR-Fe
E280 E 2.8 Man	10/92 → 10/95	Eng. 104.942, ×SLS/ASD, Mot. Code 006368  →	ZF	PPS382	165	6	IR
E300 CE 3.0 12V	10/85 → 10/92	Eng. 103.980/103.983, SLS/ASD	ZF	PPS544		2	IR, Tandem
E300 CE 3.0 12V	10/85 → 10/92	Eng. 103.980/103.983	VICKERS	PPS975		2	IR, Tandem
E300 CE 3.0 12V	10/85 → 10/92	Eng. 103.980/103.983	VICKERS	PPS987		4	IR, Tandem
E300 CE 3.0 24V	09/89 → 10/92	Eng. 104.980, SLS/ASD	ZF	PPS544		2	IR, Tandem
E300 CE 3.0 24V	09/89 → 10/92	Eng. 104.980	VICKERS	PPS975		2	IR, Tandem
E300 CE 3.0 24V	09/89 → 10/92	Eng. 104.980	VICKERS	PPS987		4	IR, Tandem
E300 D 3.0 12V	10/85 → 08/93	Eng. 603.912	VICKERS	PPS992			IR-Fe

			FOR MANUFACTURER	PATRON		PORTS	REMARKS
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## MERCEDES

E-CLASS (W124)							
E300 D 3.0 12V Auto	10/85 → 08/93	Eng. 603.912, Mot. Code →  047341	ZF	PPS552	160	6	IR
E300 D 3.0 12V Auto	10/85 → 08/93	Eng. 603.912, Mot. Code 047342  →	ZF	PPS549	160	6	IR-Fe
E300 D 3.0 12V Man	10/85 → 08/93	Eng. 603.912, Mot. Code →  070267	ZF	PPS552	160	6	IR
E300 D 3.0 12V Man	10/85 → 08/93	Eng. 603.912, Mot. Code 070268  →	ZF	PPS549	160	6	IR-Fe
E300 D 3.0 24V	08/93 → 10/95	Eng. 606.910, SLS/ASD	ZF	PPS550	160	6	IR-Fe
E300 D 3.0 24V	08/93 → 10/95	Eng. 606.910, ×SLS/ASD	ZF	PPS549	160	6	IR-Fe
E300 D 3.0 4-matic	10/85 → 08/93	Eng. 603.913	ZF	PPS552	160	6	IR
E300 D 3.0 4-matic Auto	10/85 → 10/95	Eng. 603.963, SLS/ASD, Mot. Code 038821  →	ZF	PPS550	160	6	IR-Fe
E300 D 3.0 Auto	10/85 → 10/95	Eng. 603.960, SLS/ASD, Mot. Code →  038820	VICKERS	PPS987			4 IR, Tandem
E300 D 3.0 Auto	10/85 → 10/95	Eng. 603.960, ×SLS/ASD, Mot. Code →  038820	VICKERS	PPS992			IR-Fe
E300 D 3.0 Auto	10/85 → 10/95	Eng. 603.960, SLS/ASD, Mot. Code 038821  →	ZF	PPS550	160	6	IR-Fe
E320 CE 3.2	10/92 → 10/95	Eng. 104.992	LUK	PPS998			4 IR-Fe, Tandem
E320 CE 3.2	10/92 → 10/95	Eng. 104.992	LUK	PPS1031			IR-Fe
E320 CE 3.2 Auto	10/92 → 10/95	Eng. 104.992, SLS/ASD, Mot. Code →  072236	ZF	PPS596	132	6	
E320 CE 3.2 Auto	10/92 → 10/95	Eng. 104.992, SLS/ASD, Mot. Code 072237  →	ZF	PPS546			IR-Fe
E320 CE 3.2 Auto	10/92 → 10/95	Eng. 104.992, ×SLS/ASD, Mot. Code →  072236	ZF	PPS595	132	6	IR
E320 CE 3.2 Auto	10/92 → 10/95	Eng. 104.992, ×SLS/ASD, Mot. Code 072237  → 086882	ZF	PPS382	165	6	IR
E320 CE 3.2 Auto	10/92 → 10/95	Eng. 104.992, ×SLS/ASD, Mot. Code 087757  →	ZF	PPS382	165	6	IR
E320 CE 3.2 Man	10/92 → 10/95	Eng. 104.992, SLS/ASD, Mot. Code →  004356	ZF	PPS596	132	6	
E320 CE 3.2 Man	10/92 → 10/95	Eng. 104.992, SLS/ASD, Mot. Code 004357  →	ZF	PPS546			IR-Fe
E320 CE 3.2 Man	10/92 → 10/95	Eng. 104.992, ×SLS/ASD, Mot. Code →  004356	ZF	PPS595	132	6	IR
E320 CE 3.2 Man	10/92 → 10/95	Eng. 104.992, ×SLS/ASD, Mot. Code 004357  → 004871	ZF	PPS382	165	6	IR
E320 CE 3.2 Man	10/92 → 10/95	Eng. 104.992, ×SLS/ASD, Mot. Code 004957  →	ZF	PPS382	165	6	IR
E400 E 4.2	10/92 → 06/95	Eng. 111.975	VICKERS	PPS636			4 Tandem
E500 E 5.0	03/91 → 10/95	Eng. 111.974	VICKERS	PPS636			4 Tandem

E-CLASS (W210)							
E200 2.0	10.95 → 06.00	Eng. 111.942	LUK	PPS988	130	6	IR
E200 2.0	10.95 → 06.00	Eng. 111.942, SLS/ASD	LUK	PPS637	130	6	3 Tandem
E200 2.0	10.95 → 06.00	Eng. 111.942, ×SLS/ASD	ZF	PPS437			IR
E200 2.0 Kompressor	06.97 → 03.02	Eng. 111.947	LUK	PPS988	130	6	IR
E200 2.0 Kompressor	06.97 → 03.02	Eng. 111.947, SLS/ASD	LUK	PPS637	130	6	3 Tandem
E200 2.0 Kompressor	06.97 → 03.02	Eng. 111.947, ×SLS/ASD	ZF	PPS437			IR
E200 2.0 Kompressor	08.00 →	Eng. 111.957	LUK	PPS988	130	6	IR
E200 2.0 Kompressor	08.00 →	Eng. 111.957, ×SLS/ASD	ZF	PPS437			IR
E200 CDI 2.0	07.99 → 03.02	×SLS/ASD	LUK	PPS038			
E200 D 2.0	10.95 →	Eng. 604.917	LUK	PPS619	143	6	IR-P, Tandem
E200 D 2.0	10.95 →	Eng. 604.917, SLS/ASD	LUK	PPS629			IR, Tandem
E200 D 2.0	10.95 →	Eng. 604.917, ×SLS/ASD	ZF	PPS918			IR-P
E220 D 2.2	09.98 → 05.03	Eng. 604.912	LUK	PPS619	143	6	IR-P, Tandem
E220 D 2.2	06.95 → 07.99	Eng. 604.912, SLS/ASD	LUK	PPS629			IR, Tandem
E220 D 2.2	09.98 → 05.03	Eng. 604.912, ×SLS/ASD	ZF	PPS918			IR-P
E220 TD 2.2	09.98 → 05.03	Eng. 611.961	LUK	PPS038			






			FOR MANUFACTURER	PATRON	 mm 	PORTS	REMARKS
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## MERCEDES

E-CLASS (W210)							
E220 TD 2.2	09.98 → 05.03	Eng. 611.961, *SLS/ASD	ZF	PPS918			IR-P
E230 2.3	10.95 → 09.97	Eng. 111.970	LUK	PPS988	130	6	IR
E230 2.3	10.95 → 09.97	Eng. 111.970, SLS/ASD	LUK	PPS637	130	6	3 Tandem
E230 2.3	10.95 → 09.97	Eng. 111.970, *SLS/ASD	ZF	PPS437			IR
E240 2.4	06.97 → 03.02	Eng. 112.911/112.914	LUK	PPS1025	130	6	
E240 2.4	06.97 → 03.02	Eng. 112.911/112.914, *SLS/ASD	ZF	PPS035			
E250 D 2.5	10.95 → 05.98	Eng. 605.912	LUK	PPS619	143	6	IR-P, Tandem
E250 D 2.5	10.95 → 05.98	Eng. 605.912, SLS/ASD	LUK	PPS629			IR, Tandem
E250 D 2.5	10.95 → 05.98	Eng. 605.912, *SLS/ASD	ZF	PPS918			IR-P
E250 TD 2.5	10.95 → 05.98	Eng. 605.962	LUK	PPS619	143	6	IR-P, Tandem
E250 TD 2.5	10.95 → 05.98	Eng. 605.962, SLS/ASD	LUK	PPS629			IR, Tandem
E250 TD 2.5	10.95 → 05.98	Eng. 605.962, *SLS/ASD	ZF	PPS918			IR-P
E270 D 2.7	07.99 →	Eng. 612.961, *SLS/ASD	LUK	PPS038			
E280 2.8	10.95 →	Eng. 104.945	LUK	PPS989	130	6	IR-P
E280 2.8	10.95 →	Eng. 104.945, *SLS/ASD	ZF	PPS597			
E280 2.8	12.96 → 03.02	Eng. 112.921	LUK	PPS1025	130	6	
E280 2.8	12.96 → 03.02	Eng. 112.921, *SLS/ASD	ZF	PPS035			
E290 TD 2.9	1995 → 07.99	Eng. 602.982	LUK	PPS619	143	6	IR-P, Tandem
E290 TD 2.9	06.95 → 07.99	Eng. 602.982, SLS/ASD	LUK	PPS629			IR, Tandem
E290 TD 2.9	1995 → 07.99	Eng. 602.982, *SLS/ASD	ZF	PPS918			IR-P
E300 D 3.0	10.95 → 03.97	Eng. 606.912	LUK	PPS619	143	6	IR-P, Tandem
E300 D 3.0	10.95 → 03.97	Eng. 606.912, SLS/ASD	LUK	PPS629			IR, Tandem
E300 D 3.0	10.95 → 03.97	Eng. 606.912, *SLS/ASD	ZF	PPS918			IR-P
E300 TD 3.0	03.97 → 08.99	Eng. 606.962	LUK	PPS619	143	6	IR-P, Tandem
E300 TD 3.0	03.97 → 08.99	Eng. 606.962, SLS/ASD	LUK	PPS629			IR, Tandem
E300 TD 3.0	03.97 → 08.99	Eng. 606.962, *SLS/ASD	ZF	PPS918			IR-P
E320 3.2	06.95 → 06.97	Eng. 104.992, *SLS/ASD	ZF	PPS597			
E320 3.2	06.97 → 03.02	Eng. 112.941	LUK	PPS1025	130	6	
E320 3.2	06.97 → 03.02	Eng. 112.941, *SLS/ASD	ZF	PPS035			
E420 4.2	10.95 →	Eng. 111.985, *SLS/ASD	ZF	PPS603			IR
E430 4.3	06.97 → 03.02	Eng. 113.940	LUK	PPS1025	130	6	
E430 4.3	06.97 → 03.02	Eng. 113.940, *SLS/ASD	ZF	PPS035			
E50 AMG 5.0	10.95 →	Eng. 119.980, *SLS/ASD	ZF	PPS601			IR-P
E55 AMG 5.4	08.97 →	Eng. 113.980	LUK	PPS1025	130	6	
E55 AMG 5.4	08.97 →	Eng. 113.980, *SLS/ASD	ZF	PPS035			

G-CLASS (W461)							
230 GE 2.3	02.93 →	Eng. 102.979	ZF	PPS598			
230 GE 2.3	06.93 →	Eng. 102.996	ZF	PPS598			
250 GD 2.5 Man	02.90 →	Eng. 602.939, Mot. Code →  006541	VICKERS	PPS630			IR-Fe
250 GD 2.5 Man	02.90 →	Eng. 602.939, Mot. Code 006542  →	ZF	PPS598			
290 GD 2.9	04.92 →	Eng. 602.942	ZF	PPS598			
290 TD 2.9	07.97 →	*AC, Eng. 602.983	ZF	PPS598			

G-CLASS (W463)							
200 GE 2.0	1989 → 01.93	Eng. 102.965, Mot. Code →  000313	ZF	PPS435			
200 GE 2.0	1989 → 01.93	Eng. 102.965, Mot. Code 000314  →	ZF	PPS598			
230 GE 2.3 Auto	06.90 → 06.93	Eng. 102.989, Mot. Code →  000190	VICKERS	PPS630			IR-Fe
230 GE 2.3 Auto	06.90 → 06.93	Eng. 102.989, Mot. Code 000191  →	ZF	PPS598			
230 GE 2.3 Man	06.90 → 06.93	Eng. 102.989, Mot. Code →  000255	VICKERS	PPS630			IR-Fe

			FOR MANUFACTURER	PATRON	 mm 	PORTS	REMARKS
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G-CLASS (W463)							
230 GE 2.3 Man	06.90 → 06.93	Eng. 102.989, Mot. Code 000256  →	ZF	PPS598			
250 GD 2.5	06.90 →	Eng. 602.931, Mot. Code →  002536	VICKERS	PPS630			IR-Fe
250 GD 2.5	06.90 →	Eng. 602.931, Mot. Code 002537  →	ZF	PPS598			
300 GD 3.0 Auto	09.89 →	Eng. 603.931, Mot. Code →  001015	VICKERS	PPS630			IR-Fe
300 GD 3.0 Auto	09.89 →	Eng. 603.931, Mot. Code 001016  →	ZF	PPS598			
300 GD 3.0 Man	09.89 →	Eng. 603.931, Mot. Code →  002536	VICKERS	PPS630			IR-Fe
300 GD 3.0 Man	09.89 →	Eng. 603.931, Mot. Code 002537  →	ZF	PPS598			
300 GE 3.0 Auto	06.90 →	Eng. 103.987, Mot. Code →  002605	VICKERS	PPS628			IR-Fe
300 GE 3.0 Man	06.90 →	Eng. 103.987, Mot. Code →  001032	VICKERS	PPS628			IR-Fe
320 GE 3.2	09.94 → 12.97	Eng. 104.996	ZF	PPS598			
350 TD 3.5	09.91 →	Eng. 603.972	ZF	PPS598			

M-CLASS (W163)							
ML270 2.7	10.99 →	Eng. 612.963	LUK	PPS066			
ML320 3.2	02.98 →	Eng. 112.942	LUK	PPS035	130	6	
ML430 4.3	02.98 →	Eng. 113.942	LUK	PPS035	130	6	
ML55 AMG 5.4	02.00 →	Eng. 113.981	LUK	PPS035	130	6	

S-CLASS (W126)							
260 SE 2.6	09.85 → 06.91	Eng. 103.941, *SLS	VICKERS	PPS628			IR-Fe
280 SE 2.7	10.80 → 09.85		ZF	PPS435			
300 SE/SEL 3.0	09.85 → 06.91	Eng. 103.981, *SLS	VICKERS	PPS628			IR-Fe
380 SE/SEC/SEL 3.8	10.85 → 10.85	Eng. 116.961/111.963	ZF	PPS435			
420 SE/SEC/SEL 4.2	02.86 → 12.91	Exc. Safety Pack	ZF	PPS435			
500 SE/SEC/SEL 5.0	10.80 → 12.91	Eng. 117.961/117.963, Exc. Safety Pack	ZF	PPS435			
560 SEC/SEL 5.6	08.86 → 12.91	Exc. Safety Pack	ZF	PPS435			

S-CLASS (W140)							
300 SE/SEL 3.2	03.91 → 03.99	Eng. 104.990, SLS/ASD	ZF	PPS499			
300 SE/SEL 3.2	03.91 → 03.99	Eng. 104.990, *SLS/ASD	ZF	PPS939			
400 SE/SEL 4.2	02.91 → 03.99	Eng. 119.971	LUK	PPS631			A14
400 SE/SEL 4.2	02.91 → 03.99	Eng. 119.971	ZF	PPS600			A13
400 SE/SEL 4.2	02.91 → 03.99	Eng. 119.971	LUK	PPS994			
400 SE/SEL 4.2	02.91 → 03.99	Eng. 119.971, SLS/ASD, Exc. Safety Pack	VICKERS	PPS634			
400 SE/SEL 4.2	02.91 → 03.99	Eng. 119.971, *SLS/ASD, Exc. Safety Pack	VICKERS	PPS632			
500 S/E/SEC/SEL 5.0	09.91 → 03.99	Eng. 119.970	LUK	PPS631			A14
500 S/SE/SEC/SEL 5.0	09.91 → 03.99	Eng. 119.970	ZF	PPS600			A13
500 S/SE/SEC/SEL 5.0	09.91 → 03.99	Eng. 119.970	LUK	PPS994			
500 S/SE/SEC/SEL 5.0	09.91 → 03.99	Eng. 119.970, SLS/ASD, Exc. Safety Pack	VICKERS	PPS634			
500 S/SE/SEC/SEL 5.0	09.91 → 03.99	Eng. 119.970, *SLS/ASD, Exc. Safety Pack	VICKERS	PPS632			
600 S/SE/SEC/SEL 6.0	09.91 → 03.99	Eng. 120.980, SLS/ASD, Exc. Safety Pack	ZF	PPS602			
CI500 5.0	03.91 → 03.99	Eng. 119.980, *SLS/ASD, Exc. Safety Pack	ZF	PPS601			IR-P
CI600 6.0	09.91 → 03.99	Eng. 120.982, SLS/ASD, Exc. Safety Pack	ZF	PPS602			

			FOR MANUFACTURER	PATRON		PORTS	REMARKS
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## MERCEDES

S-CLASS (W140)							
CL420 4.2	09.91 → 03.99	Eng. 119.981, ×SLS/ASD, Exc. Safety Pack	ZF	PPS601			IR-P
S280 2.8	01.93 → 03.99	Eng. 104.944, SLS/ASD, Mot. Code →  007447	ZF	PPS499			
S280 2.8	01.93 → 03.99	Eng. 104.944, ×SLS/ASD, Mot. Code →  007447	ZF	PPS939			
S280 2.8	01.93 → 03.99	Eng. 104.944, ×SLS/ASD, Mot. Code 007448  →	ZF	PPS599			
S320 3.2	03.91 → 03.99	Eng. 104.994, SLS/ASD, Mot. Code →  031209	ZF	PPS499			
S320 3.2	03.91 → 03.99	Eng. 104.994, ×SLS/ASD, Mot. Code →  031209	ZF	PPS939			
S320 3.2	03.91 → 03.99	Eng. 104.994, ×SLS/ASD, Mot. Code 031210  →	ZF	PPS599			
S400 4.2	02.91 → 03.99	Eng. 119.971	LUK	PPS631			A14
S400 4.2	02.91 → 03.99	Eng. 119.971, ×SLS/ASD, Exc. Safety Pack	VICKERS	PPS632			
S420 4.2	02.91 → 03.99	Eng. 119.971	ZF	PPS600			A13
S420 4.2	02.91 → 03.99	Eng. 119.971	LUK	PPS994			
S420 4.2	02.91 → 03.99	Eng. 119.971, SLS/ASD, Exc. Safety Pack	VICKERS	PPS634			

S-CLASS (W220)							
S55 AMG 5.4	04.99 →	Eng. 113.986	ZF	PPS035			
S55 AMG 5.4	04.99 →	Eng. 113.986, ×SLS	LUK	PPS1025	130	6	

SL (R107)							
280 SL/SLC 2.7	10.80 → 10.85	Eng. 110.986/110.990	ZF	PPS346			IR
300 SL/SLC 3.0	09.85 → 08.89	Eng. 103.982	VICKERS	PPS628			IR-Fe
350 SL/SLC 3.5	01.72 → 08.81	Eng. 116.984	ZF	PPS346			IR
350 SL/SLC 3.5 Auto	01.72 → 08.81	Eng. 116.982, Mot. Code 016547  →	ZF	PPS346			IR
350 SL/SLC 3.5 Man	01.72 → 08.81	Eng. 116.982, Mot. Code 005801  →	ZF	PPS346			IR
380 SL/SLC 3.8	10.80 → 10.85	Eng. 116.962	ZF	PPS346			IR
450 SL/SLC 4.5	05.73 → 04.80	Eng. 117.985	ZF	PPS346			IR
500 SL 5.0	10.80 → 08.89	Eng. 117.960/117.964	ZF	PPS346			IR

SL (R129)							
SL280 2.8 18V SOHC	05.98 → 03.02	Eng. 112.923	LUK	PPS1025	130	6	
SL280 2.8 18V SOHC	05.98 → 03.02	Eng. 112.923, ×SLS/ASD	ZF	PPS035			
SL280 2.8 24V DOHC	08.93 → 10.01		LUK	PPS1031			IR-Fe
SL280 2.8 24V DOHC	08.93 → 10.01	Eng. 104.943	LUK	PPS1031			IR-Fe
SL280 2.8 24V DOHC Auto	08.93 → 10.01	Eng. 104.943, ×SLS/ASD, Mot. Code →  003620	ZF	PPS595	132	6	IR
SL280 2.8 24V DOHC Auto	08.93 → 10.01	Eng. 104.943, ×SLS/ASD, Mot. Code 003621  → 004325	ZF	PPS382	165	6	IR
SL280 2.8 24V DOHC Auto	08.93 → 10.01	Eng. 104.943, ×SLS/ASD, Mot. Code 004326  → 004353	ZF	PPS549	160	6	IR-Fe
SL280 2.8 24V DOHC Auto	08.93 → 10.01	Eng. 104.943, ×SLS/ASD, Mot. Code 004354  →	ZF	PPS382	165	6	IR
SL280 2.8 24V DOHC Auto	08.93 → 10.01	Eng. 104.943, SLS/ASD, Mot. Code 000115  → 003620	ZF	PPS596	132	6	
SL280 2.8 24V DOHC Auto	08.93 → 10.01	Eng. 104.943, SLS/ASD, Mot. Code 003621  →	ZF	PPS546			IR-Fe
SL280 2.8 24V DOHC Man	08.93 → 10.01	Eng. 104.943, ×SLS/ASD, Mot. Code →  000900	ZF	PPS595	132	6	IR
SL280 2.8 24V DOHC Man	08.93 → 10.01	Eng. 104.943, ×SLS/ASD, Mot. Code 000901  → 001038	ZF	PPS382	165	6	IR
SL280 2.8 24V DOHC Man	08.93 → 10.01	Eng. 104.943, ×SLS/ASD, Mot. Code 001039  → 001047	ZF	PPS549	160	6	IR-Fe

			FOR MANUFACTURER	PATRON	 mm 	PORTS	REMARKS
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## MERCEDES

SL (R129)							
SL280 2.8 24V DOHC Man	08.93 → 10.01	Eng. 104.943, *SLS/ASD, Mot. Code 001048  →	ZF	PPS382	165	6	IR
SL280 2.8 24V DOHC Man	05.98 → 03.02	Eng. 104.943, SLS/ASD, Mot. Code 000034  → 000900	ZF	PPS596	132	6	
SL280 2.8 24V DOHC Man	05.98 → 03.02	Eng. 104.943, SLS/ASD, Mot. Code 000901  →	ZF	PPS546			IR-Fe
SL300 3.0 12V SOHC	03.89 → 08.93	Eng. 103.984, SLS/ASD	VICKERS	PPS975			2 IR, Tandem
SL300 3.0 12V SOHC	03.89 → 08.93	Eng. 103.984, *SLS/ASD	ZF	PPS544			2 IR, Tandem
SL300 3.0 24V DOHC	03.89 → 08.93	Eng. 104.981, SLS/ASD	VICKERS	PPS975			2 IR, Tandem
SL300 3.0 24V DOHC	03.89 → 08.93	Eng. 104.981, *SLS/ASD	ZF	PPS544			2 IR, Tandem
SL320 3.2 18V SOHC	05.98 → 03.02	Eng. 112.943	LUK	PPS1025	130	6	
SL320 3.2 18V SOHC	05.98 → 03.02	Eng. 112.943, *SLS/ASD	ZF	PPS035			
SL320 3.2 24V DOHC	08.93 → 03.02	Eng. 104.991, *SLS/ASD, Mot. Code →  009985	ZF	PPS595	132	6	IR
SL320 3.2 24V DOHC	05.98 → 03.02	Eng. 104.991, *SLS/ASD, Mot. Code 009986  → 012959	ZF	PPS382	165	6	IR
SL320 3.2 24V DOHC	05.98 → 03.02	Eng. 104.991, *SLS/ASD, Mot. Code 012960  → 013080	ZF	PPS549	160	6	IR-Fe
SL320 3.2 24V DOHC	08.93 → 03.02	Eng. 104.991, *SLS/ASD, Mot. Code 013081  →	ZF	PPS382	165	6	IR
SL320 3.2 24V DOHC	08.93 → 03.02	Eng. 104.991, SLS/ASD, Mot. Code →  001795	LUK	PPS040			
SL320 3.2 24V DOHC	08.93 → 03.02	Eng. 104.991, SLS/ASD, Mot. Code 001796  → 009985	ZF	PPS596	132	6	
SL320 3.2 24V DOHC	08.93 → 03.02	Eng. 104.991, SLS/ASD, Mot. Code 009986  →	ZF	PPS546			IR-Fe
SL500 5.0	09.89 → 08.92	Eng. 119.960, *SLS/ASD, Mot. Code 666  →	VICKERS	PPS991			
SL500 5.0	09.92 → 03.02	Eng. 119.982, *SLS/ASD	ZF	PPS603			IR
SL500 5.0	05.98 → 10.01	Eng. 113.961, *SLS/ASD, Low Emission	LUK	PPS1025	130	6	
SL600 6.0	10.92 → 11.00	Eng. 120.981, Mot. Code →  003389	ZF	PPS604			

SLK (R170)							
SLK200 2.0	09.96 → 07.00	Eng. 111.946	LUK	PPS988	130	6	IR
SLK200 2.0 Kompressor	10.96 → 03.00	Eng. 111.943	LUK	PPS988	130	6	IR
SLK200 2.0 Kompressor	03.00 →	Eng. 111.958, CH →  32355126	ZF	PPS437			IR
SLK200 2.0 Kompressor	03.00 →	Eng. 111.958	LUK	PPS988	130	6	IR
SLK200 2.0 Kompressor	10.96 → 03.00	Eng. 111.943, *SLS/ASD	ZF	PPS437			IR
SLK200 2.0	09.96 → 07.00	Eng. 111.946, *SLS/ASD	ZF	PPS437			IR
SLK230 2.3 Kompressor	03.00 →	Eng. 111.983, CH →  32355126	ZF	PPS437			IR
SLK230 2.3 Kompressor	03.00 →	Eng. 111.983	LUK	PPS988	130	6	IR
SLK230 2.3 Kompressor	09.96 → 03.00	Eng. 111.973, *SLS/ASD	ZF	PPS437			IR
SLK320 3.2	02.00 →	Eng. 112.947	LUK	PPS1025	130	6	
SLK320 3.2	02.00 →	Eng. 112.947, *SLS	ZF	PPS035			

SPRINTER							
208/308, 408/413 2.2 CDI	04.00 →	Eng. 611.987	LUK	PPS039			IR-P
208/308/408 2.3 D	01.95 → 04.00	Eng. 601.943, Mot. Code →  530440	LUK	PPS436	143	6	IR-Fe
208/308/408 2.3 D	01.95 → 04.00	Eng. 601.943, Mot. Code 530441  →	ZF/LUK	PPS526			IR-P
211/213/311, 313/411/413 2.2 CDI	04.00 →	Eng. 611.981	LUK	PPS039			IR-P
212/312, 410/412 2.9 D	02.95 → 04.00	Eng. 602.980	ZF/LUK	PPS526			IR-P
212/312, 410/412 2.9 D Auto	02.95 → 04.00	Eng. 602.980, Mot. Code →  003321	LUK	PPS436	143	6	IR-Fe
212/312, 410/412 2.9 D Auto	02.95 → 04.00	Eng. 602.980, Mot. Code 003322  →	ZF/LUK	PPS526			IR-P



			<b>FOR MANUFACTURER</b>	<b>PATRON</b>	 mm 	<b>PORTS</b>	<b>REMARKS</b>
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## MERCEDES





SPRINTER							
212/312, 410/412 2.9 D Man	02.95 → 04.00	Eng. 602.980, Mot. Code →  066378	LUK	PPS436	143	6	IR-Fe
212/312, 410/412 2.9 D Man	02.95 → 04.00	Eng. 602.980, Mot. Code 066379  →	ZF/LUK	PPS526			IR-P
214/314/414 2.3	02.95 →	Eng. 111.979	ZF	PPS031	130	6	
214/314/414 2.3 Auto	02.95 →	Eng. 111.979, Mot. Code →  000441	LUK	PPS436	143	6	IR-Fe
214/314/414 2.3 Man	02.95 →	Eng. 111.979, Mot. Code →  002028	LUK	PPS436	143	6	IR-Fe
216/316/416 2.7 CDI	04.00 →	Eng. 612.981	LUK	PPS039			IR-P

T1/TN							
408 D 2.3	08.88 → 04.95	Eng. 601.940, Mot. Code →  221937	VICKERS	PPS624	130	6	
408 D 2.3	08.88 → 04.95	Eng. 601.940, Mot. Code 221938  →	LUK	PPS621			
410 D 2.9	06.89 → 02.96	Eng. 602.940, Mot. Code →  221936	VICKERS	PPS624	130	6	
410 D 2.9	06.89 → 02.96	Eng. 602.940, Mot. Code 221937  →	LUK	PPS621			

T2/LN1							
508 D 2.3	03.86 → 12.94	Eng. 601.940, Mot. Code →  221937	VICKERS	PPS624	130	6	
508 D 2.3	03.86 → 12.94	Eng. 601.940, Mot. Code 221938  →	LUK	PPS621			

V-CLASS							
V200 2.0	02.97 →	Eng. 111.948, CH →  011399	ZF	PPS031	130	6	
V200 2.0	02.97 →	Eng. 111.948	LUK	PPS976	130	6	
V220 TD 2.3	09.96 →	Eng. 601.970	LUK	PPS040			
V230 2.3	10.96 →	Eng. 111.978, CH →  012082	ZF	PPS031	130	6	
V230 2.3	10.96 →	Eng. 111.978	LUK	PPS976	130	6	

VITO							
108 D 2.3	02.96 → 07.03	Eng. 601.942, Mot. Code →  513178	ZF/LUK	PPS526			IR-P
108 D 2.3	02.96 → 07.03	Eng. 601.942, Mot. Code 513179  →	LUK	PPS685			
110 D/TD 2.3	02.96 → 07.03	Eng. 601.970	LUK	PPS040			
112 Cdi 2.2	03.99 → 07.03	Eng. 611.980	ZF	PPS042			
112 Cdi 2.2	03.99 → 07.03	Eng. 611.980	LUK	PPS1044			
113 2.0	02.96 → 07.03	Eng. 111.948, Mot. Code →  011399	ZF	PPS031	130	6	
113 2.0	02.96 → 07.03	Eng. 111.948, Mot. Code →  011399	LUK	PPS1042	130	6	
113 2.0	02.96 → 07.03	Eng. 111.948, Mot. Code 011400  →	ZF	PPS1043	130	6	
113 2.0	02.96 → 07.03	Eng. 111.948, Mot. Code 011400  →	LUK	PPS976	130	6	
114 2.3	12.96 → 07.03	Eng. 111.978, CH →  012082	ZF	PPS031	130	6	
114 2.3	12.96 → 07.03	Eng. 111.978, CH →  012082	LUK	PPS1042	130	6	
114 2.3	12.96 → 07.03	Eng. 111.978, CH 012083  →	ZF	PPS1043	130	6	
114 2.3	12.96 → 07.03	Eng. 111.978, CH 012083  →	LUK	PPS976	130	6	

			FOR MANUFACTURER	PATRON	 mm	PORTS	REMARKS
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## MITSUBISHI

### 3000 GT

3.0 (Z16A)	08.92 → 11.99		KAYABA	PPS432	95	4	
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### CARISMA

1.6 (DA1A)	10.95 →		SAGINAW	PPS345	145	5	
1.8 DOHC (DA2A)	10.97 → 10.02		KAYABA	PPS651	147	5	

### COLT

1.3 8V (C51A)	06.88 → 09.90			PPS434			
1.5 8V (C52A)	04.89 → 09.89			PPS434			
1.5 12V (C52A)	09.90 → 01.92			PPS434			
1.6 (C53A)	07.88 → 03.89			PPS434			

### GALANT IV

1.8 (E32A)	08.87 → 07.90		KAYABA	PPS433			
1.8 TD (E34A)	03.88 → 07.90		KAYABA	PPS433			
2.0 (E33A)	08.87 → 07.90	FWD	KAYABA	PPS433			

### GALANT VI

2.5 (EA5A/EA5W) × Turbo	04.97 →		KAYABA	PPS310	145	5	
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### LANCER

1.6 (C66A)	10.92 → 09.95		KAYABA	PPS502	148	5	
1.8 (C69A)	10.92 → 09.95		KAYABA	PPS502	148	5	

### PAJERO





2.5 TD (L044/L049)	09.86 → 04.91		KAYABA	PPS565	106	1	
2.5 TD (V24W/V44W)	04.91 → 04.00		KAYABA	PPS671	133	1	
2.8 TD (V46W)	02.94 → 04.00		KAYABA	PPS457			A9, KW

### SIGMA

3.0 (F16A/F07W)	04.91 → 07.95		KAYABA	PPS344	95	1	
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### SPACE WAGON

1.8 (D05W)	09.86 → 10.91		KAYABA	PPS343	95	1	
1.8 (N31W)	10.91 → 08.92		KAYABA	PPS456	107	1	
2.0 (N33W)	08.92 → 10.98		KAYABA	PPS456	107	1	
2.0 TD (N38W)	08.92 → 02.96		KAYABA	PPS456	107	1	

			FOR MANUFACTURER	PATRON	 mm	PORTS	REMARKS
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## NISSAN

### 100NX (B13)

1.6	01.92 → 09.95		KAYABA	PPS264	115	4	
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### 200SX

1.8 (S13)	04.89 → 09.94		KAYABA	PPS342	112	3	
2.0 (S14)	10.94 → 10.00		UNISIAJECS	PPS454	113	3	

			FOR MANUFACTURER	PATRON	 mm	PORTS	REMARKS
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## NISSAN

<b>300ZX</b>							
3.0 (Z32)	03.90 → 12.94		KAYABA	PPS431	112	4	3

<b>ALMERA (N15)</b>							
1.4 / 1.6	10.95 → 02.00		KAYABA	PPS264	115	4	
2.0 D	10.95 → 02.00		UNISIAJECS	PPS985	97	1	

<b>BLUEBIRD</b>							
1.6 (T12/T72)	03.86 → 09.90		KAYABA	PPS232	127	4	
1.8 (U11) Incl. Turbo	02.84 → 03.86		UNISIAJECS	PPS267	128	1	
1.8 (T12/T72) Incl. Turbo	03.86 → 09.90		KAYABA	PPS232	127	4	
2.0 (U11)	02.84 → 03.86		UNISIAJECS	PPS267	128	1	
2.0 (U11/T12/T72)	03.86 → 09.90		KAYABA	PPS232	127	4	
2.0 D (T12/T72)	03.86 → 09.90		ATSUGI	PPS366	107	1	

<b>INTERSTAR</b>							
2.2	04.02 →		SAGINAW	PPS655	126	5	
2.2	04.02 →		SAGINAW	PPS687	126	6	
2.2	04.02 →		SAGINAW	PPS674			
2.5 D	04.02 →		SAGINAW/ZF	PPS239			× Belt

<b>LAUREL (C32)</b>							
2.4	09.85 → 01.89			PPS430			

<b>MAXIMA (J30)</b>							
3.0	06.89 → 06.94			PPS429	122	4	

<b>MAXIMA QX</b>							
2.0 / 3.0 QX (A32/A33)	03.95 → 10.00			PPS426			

<b>MICRA (K11)</b>							
1.0 / 1.3 / 1.4	04.98 → 12.02		UNISIAJECS	PPS387	93	4	
1.3	01.93 → 04.98		KAYABA	PPS428	108	3	





<b>PATROL</b>							
2.8 (160/26)	01.84 → 09.89			PPS296			
2.8 TD (260/Y743)	09.89 → 07.93			PPS385	160	1	
3.0 (260/Y743)	09.89 → 07.93			PPS296			

<b>PRAIRIE</b>							
1.8 (M10)	05.84 → 04.89			PPS427		1	
2.0 (M11)	04.89 → 12.91	FWD	UNISIAJECS	PPS243	127	4	

<b>PRIMASTAR</b>							
1.9 TD	09.02 →		SAGINAW	PPS655	126	5	
1.9 TD	09.02 →		SAGINAW	PPS687	126	6	
1.9 TD	09.02 →		SAGINAW	PPS674			

<b>PRIMERA (P10/W10)</b>							
1.6	09.90 → 11.96		KAYABA	PPS271	115	4	
2.0	09.90 → 03.98		KAYABA	PPS679	112	4	
2.0 D	06.92 → 11.96		UNISIAJECS	PPS506	110	1	

<b>PRIMERA (P11/W11)</b>							
1.6	10.96 → 02.02		ZF	PPS642	124	4	
1.8	09.99 → 02.02		KAYABA	PPS679	112	4	
1.8	09.99 → 02.02		ZF	PPS222	112	4	
2.0	09.90 → 03.98		ZF	PPS222	112	4	

			FOR MANUFACTURER	PATRON	 mm	PORTS	REMARKS
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## NISSAN

PRIMERA (P11/W11)							
2.0	06.99 → 02.02		ZF	PPS516	98	4	
2.0 TD	10.96 → 02.02		ZF	PPS285	120	1	

SERENA							
1.6 / 2.0 (C23E)	01.93 → 09.00		UNISIAJECS	PPS295	112	4	
2.0 / 2.3 D (C23N)	01.93 → 01.95		KAYABA	PPS314	125	1	





SILVIA (S12)							
1.8 ZX Turbo / 2.0 ZX	06.84 → 03.89			PPS341	99	1	

SUNNY II							
1.6 8V (N13/B12)	09.86 → 03.89		KAYABA	PPS340	103	1	
1.6 12V (N13/B12)	03.89 → 12.91		ATSUGI	PPS511	137	4	
1.6 ZX 16V (B12)	08.87 → 05.89		ATSUGI	PPS511	137	4	
1.7 D (N13/B12)	09.86 → 01.92		ATSUGI	PPS509	100	1	
1.8 GTI/ZX (N13/B12)	03.89 → 01.92			PPS510		4	

SUNNY III							
1.4 (N14)	04.91 → 10.95		KAYABA	PPS264	115	4	
1.6 (N14/Y10)	04.91 → 10.95		KAYABA	PPS264	115	4	
2.0 D (N14)	06.92 → 10.95		UNISIAJECS	PPS985	97	1	

TERRANO II (R20)							
2.4 i	07.93 → 08.01		KAYABA	PPS353	127	1	
2.7 TD	07.93 →		ZF	PPS208	135	1	





VANETTE (C23)							
2.3 D	12.95 → 10.02		KAYABA	PPS314	125	1	

			FOR MANUFACTURER	PATRON	 mm	PORTS	REMARKS
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## OPEL

ASCONA C							
1.3 / 1.6 / D	08.81 → 08.88		SAGINAW	PPS482	140	1	
1.8 / 2.0	08.81 → 08.88		SAGINAW	PPS482	140	1	

ASTRA F							
1.4	10.91 → 08.92	→  Prefix 'N'	SAGINAW	PPS214	142	5	
1.4	08.92 → 03.98	Prefix 'P'  →	SAGINAW	PPS027	143	6	
1.6	10.91 → 08.92	→  Prefix 'N'	SAGINAW	PPS214	142	5	
1.6	08.92 → 03.98	Prefix 'P'  →	SAGINAW	PPS027	143	6	
1.7 D	10.91 → 08.94		SAGINAW	PPS178	116	1	
1.7 TD	04.92 → 03.98		SAGINAW	PPS178	116	1	
1.7 TD	04.92 → 03.98		SAGINAW	PPS182	120	1	
1.8	10.91 → 08.92	→  Prefix 'N'	SAGINAW	PPS026	130	1	
1.8	08.92 → 03.98	Prefix 'P'  →	SAGINAW	PPS027	143	6	
2.0 8V	10.91 → 08.92	→  Prefix 'N'	SAGINAW	PPS026	130	1	

			FOR MANUFACTURER	PATRON	 mm	PORTS	REMARKS
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## OPEL

ASTRA F							
2.0 8V	08.92 → 03.98	Prefix 'P'  →	SAGINAW	PPS027	143	6	
2.0 16V	10.91 → 1995	→  Prefix 'N'	SAGINAW	PPS026	130	1	
2.0 16V	1995 → 03.98	Prefix 'P'  →	SAGINAW	PPS027	143	6	

ASTRA F VAN (KASTEN)							
1.6	10.91 → 08.92	→  Prefix 'N'	SAGINAW	PPS214	142	5	
1.6	08.92 → 03.98	Prefix 'P'  →	SAGINAW	PPS027	143	6	
1.7 D	10.91 → 08.94		SAGINAW	PPS178	116	1	
1.7 TD	04.92 → 03.98		SAGINAW	PPS178	116	1	
1.7 TD	04.92 → 03.98		SAGINAW	PPS182	120	1	

CALIBRA A (85_)							
2.0 8V	06.90 → 12.96	×AC, Prefix 'L', 'M', 'N'	SAGINAW	PPS026	130	1	
2.0 8V	06.90 → 12.96	AC, Prefix 'L', 'M', 'N'	SAGINAW	PPS178	116	1	
2.0 8V	06.90 → 12.96	Incl. AC, Prefix 'P'	SAGINAW	PPS027	143	6	
2.0	06.90 → 08.98	Eng. Ecotec, Incl. AC	SAGINAW	PPS326	140	6	
2.0 16V Incl. Turbo	06.90 → 08.98	×Eng. Ecotec, ×AC, Prefix 'L', 'M', 'N'	SAGINAW	PPS026	130	1	
2.0 16V Incl. Turbo	06.90 → 08.98	×Eng. Ecotec, AC, Prefix 'L', 'M', 'N'	SAGINAW	PPS178	116	1	
2.0 16V Incl. Turbo	06.90 → 08.98	×Eng. Ecotec, Incl. AC, Prefix 'P'	SAGINAW	PPS027	143	6	
2.5 V6	04.93 → 08.98	→  Prefix 'T'	SAGINAW	PPS325	152	6	
2.5 V6	04.93 → 08.98	Prefix 'U'  →		PPS401			

COMBO (71_)							
1.4	10.93 → 02.01	Eng. C14NZ/C14SE	SAGINAW	PPS030	142	6	
1.7 D	10.93 → 09.01	Eng. X17D	SAGINAW	PPS182	120	1	





CORSA B (73_, 78_, 79_, F35_)							
1.0 / 1.2 / 1.4	04.93 → 09.00		SAGINAW	PPS030	142	6	
1.5 D/TD	04.93 → 09.00		SAGINAW	PPS182	120	1	
1.6	04.93 → 09.00		SAGINAW	PPS030	142	6	
1.7 D	02.96 → 09.00		SAGINAW	PPS182	120	1	

FRONTERA A (5_MWL4)							
2.0 8V	10.91 → 08.98	Eng. C20NE	SAGINAW	PPS026	130	1	
2.0 16V	10.91 → 08.98	Eng. X20SE	SAGINAW	PPS323	140	6	
2.2 16V	04.95 → 08.98	Eng. X22XE	SAGINAW	PPS323	140	6	
2.3 TD	10.91 → 04.95	Eng. 23DTR	SAGINAW	PPS026	130	1	
2.4 8V	10.91 → 04.95	Eng. C24NE	SAGINAW	PPS026	130	1	
2.5 TD	08.96 → 08.98	Eng. 25TDS	SAGINAW	PPS400			
2.8 TD	04.95 → 12.96	Eng. C4JG2	KAYABA	PPS399		2	

FRONTERA B (6B_)							
2.2 16V	10.98 →	Eng. X22XE	SAGINAW	PPS323	140	6	
2.2 16V	10.98 →		KAYABA	PPS1014	131	6	
2.2 TD	10.98 →	Eng. X22DTH	KAYABA	PPS1012	132	6	

KADETT E							
1.6	10.84 → 10.91		SAGINAW	PPS026	130	1	
1.7	01.89 → 10.91		SAGINAW	PPS026	130	1	
1.8	10.84 → 10.91		SAGINAW	PPS026	130	1	
2.0	03.87 → 10.91		SAGINAW	PPS026	130	1	

MONTEREY A (UBS_)							
3.1 TD	05.94 → 08.98	Eng. 4JG2TC	KAYABA	PPS223	102	2	

			<b>FOR MANUFACTURER</b>	<b>PATRON</b>	 mm	<b>PORTS</b>	<b>REMARKS</b>
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## OPEL

MOVANO							
2.2 TD	09.00 →		SAGINAW	PPS655	126	5	
2.2 TD	09.00 →		SAGINAW	PPS687	126	6	
2.2 TD	09.00 →		SAGINAW	PPS674			
2.5 D	01.99 → 09.00		SAGINAW/ZF	PPS239			× Belt
2.5 TD	01.02 →		SAGINAW/ZF	PPS239			× Belt
2.8 TD	01.99 → 12.01		SAGINAW/ZF	PPS239			× Belt

OMEGA A							
1.8	11.86 → 08.92		SAGINAW	PPS026	130	1	
2.0	11.86 → 05.94		SAGINAW	PPS026	130	1	
2.3 D/TD	11.86 → 05.94		SAGINAW	PPS026	130	1	
2.6	09.90 → 05.94		SAGINAW	PPS028	141	6	
3.0 12V	03.87 → 09.90	Eng. 30NE/C30NE, CH →   L1999999	SAGINAW	PPS026	130	1	
3.0 12V	03.87 → 09.90	Eng. 30NE/C30NE, CH M1000001  →	SAGINAW	PPS028	141	6	
3.0 12V	03.87 → 09.90	Eng. 30LE	SAGINAW	PPS178	116	1	
3.0 24V	10.89 → 05.94	Eng. C30SE	SAGINAW	PPS028	141	6	






OMEGA B							
2.0 8V/16V	04.94 →	Eng. X20SE/X20XEV	SAGINAW	PPS029	142	6	
2.0 TD	04.94 →	Eng. X20DTH	SAGINAW	PPS398			
2.5 V6	04.94 →	Eng. X25XE	SAGINAW	PPS281	150	6	A7
2.5 V6	04.94 →		SAGINAW	PPS960	150	6	A6
2.5 TD	04.94 →	Eng. U25DT/X25DT	SAGINAW/ZF	PPS270	125	5	
3.0 24V	06.94 →	Eng. X30XE	SAGINAW	PPS281	150	6	A7
3.0 24V	06.94 →		SAGINAW	PPS960	150	6	A6

SENATOR B							
2.5 12V	09.87 → 09.90	Eng. 25E	SAGINAW	PPS026	130	1	
2.6 12V	09.90 → 08.93	Eng. C26NE	SAGINAW	PPS028	141	6	
3.0 12V	09.87 → 10.92	Eng. C30LE	SAGINAW	PPS178	116	1	
3.0 12V	09.87 → 10.92	Eng. C30NE, CH →   L1999999	SAGINAW	PPS026	130	1	
3.0 12V	09.87 → 08.93	Eng. C30NE, CH M1000001  →	SAGINAW	PPS028	141	6	
3.0 24V	10.89 → 08.93	Eng. C30SE	SAGINAW	PPS028	141	6	

SINTRA							
2.2 16V	11.96 → 07.99	Eng. X22XE	ZF	PPS254	115	6	
2.2 16V	11.96 → 07.99		SAGINAW	PPS311	142	6	
2.2 TD	07.97 → 07.99	Eng. X22DTH	ZF	PPS554			

TIGRA (95_)							
1.4 16V	11.94 → 06.00	Eng. X14XE	SAGINAW	PPS030	142	6	
1.6 16V	11.94 → 06.00	Eng. X16XE	SAGINAW	PPS030	142	6	






VECTRA A							
1.6	10.88 → 10.95		SAGINAW	PPS205	142	5	
1.7 D	1989 → 1995		SAGINAW	PPS178	116	1	
1.7 TD	03.90 → 10.95		SAGINAW	PPS182	120	1	
1.8	08.89 → 10.95	×AC, →   Prefix 'N'	SAGINAW	PPS026	130	1	
1.8	08.89 → 10.95	AC, →   Prefix 'N'	SAGINAW	PPS178	116	1	
1.8	08.89 → 10.95	Incl. AC, Prefix 'P'  →	SAGINAW	PPS027	143	6	
2.0/Turbo	10.88 → 10.95	×AC, →   Prefix 'N'	SAGINAW	PPS026	130	1	
2.0/Turbo	10.88 → 10.95	AC, →   Prefix 'N'	SAGINAW	PPS178	116	1	
2.0/Turbo	10.88 → 10.95	Incl. AC, Prefix 'P'  →	SAGINAW	PPS027	143	6	
2.5 V6	02.93 → 10.95		SAGINAW	PPS325	152	6	

			FOR MANUFACTURER	PATRON	 mm		PORTS	REMARKS
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## OPEL

VECTRA B								
1.6 8V	10.95 → 09.00	Eng. X16SZR/16LZ2	SAGINAW	PPS023	140	6		
1.6 16V	10.95 → 05.02	Eng. X16XEL	SAGINAW	PPS023	140	6		
1.7 TD	10.95 → 08.96	×AC, Eng. X17TD	SAGINAW	PPS182	120	1		
1.7 TD	10.95 → 08.96	AC, Eng. X17TD	SAGINAW	PPS652	120	2		
1.8 16V	10.95 → 05.02	Eng. X18XEL	SAGINAW	PPS023	140	6		
2.0 16V	10.95 → 09.00	Eng. X20XEV	SAGINAW	PPS023	140	6		
2.0 TD	08.96 → 05.02	Eng. X20DTL/X20DTH	KAYABA	PPS234	120	1		
2.0 TD	08.96 → 05.02		ZF	PPS254	115	6		
2.5 24V	10.95 → 10.00	Eng. X25XE	SAGINAW	PPS397				

VIVARO								
1.9 TD	06.01 →		SAGINAW	PPS655	126	5		
1.9 TD	06.01 →		SAGINAW	PPS687	126	6		
1.9 TD	06.01 →		SAGINAW	PPS674				
2.0 i	07.02 →		SAGINAW	PPS655	126	5		
2.0 i	07.02 →		SAGINAW	PPS687	126	6		
2.0 i	07.02 →		SAGINAW	PPS674				






			FOR MANUFACTURER	PATRON	 mm		PORTS	REMARKS
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## PEUGEOT

106								
1.0	11.91 → 06.96	×AC	SAGINAW	PPS660	112	5		
1.1	11.91 → 01.97	×AC	SAGINAW	PPS660	112	5		
1.3	01.94 → 06.96	×AC	SAGINAW	PPS660	112	5		
1.4	01.94 → 12.96	×AC	SAGINAW	PPS660	112	5		
1.4 D	01.93 → 08.94	×AC	SAGINAW	PPS660	112	5		
1.6	08.94 → 12.96	×AC	SAGINAW	PPS660	112	5		

205								
1.0 / 1.1 / 1.4 / 1.6	10.83 → 05.96		SAGINAW	PPS193	141	4		
1.8 D	10.83 → 06.91		HOBURN	PPS237	83	1		
1.8 D	10.83 → 06.91		SAGINAW	PPS424				
1.8 D	06.91 → 05.96		SAGINAW	PPS024	75	1		
1.8 TD	07.90 → 05.96		SAGINAW	PPS024	75	1		
1.9	01.87 → 01.94		SAGINAW	PPS193	141	4		

206								
1.1	10.98 →		SAGINAW	PPS053	132	6		
1.4	10.98 →		SAGINAW	PPS053	132	6		
1.4	10.98 →		SAGINAW	PPS1016	142	6		
1.6	10.98 →		SAGINAW	PPS053	132	6		
1.9 D	10.98 → 12.01		SAGINAW	PPS607	114	6		5 pcs. A7
1.9 D	10.98 → 12.01		SAGINAW	PPS682	114	6		6 pcs. A7
2.0 16V	06.99 →		SAGINAW	PPS378	132	6		
2.0 16V	06.99 →		SAGINAW	PPS1011	137	6		
2.0 HDi	11.99 →		SAGINAW	PPS386	125	6		

			FOR MANUFACTURER	PATRON	 mm 	PORTS	REMARKS
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## PEUGEOT






305							
1.6	08.83 → 07.88		SAGINAW	PPS193	141	4	
1.9	10.84 → 1988		SAGINAW	PPS193	141	4	
1.9	1988 →		SAGINAW	PPS425			

306							
1.4	04.93 → 02.98		SAGINAW	PPS193	141	4	
1.4	04.93 → 02.98		SAGINAW	PPS625	141	5	
1.4	02.98 →		SAGINAW	PPS315			Pump-Al, IN —
1.4	02.98 →		SAGINAW	PPS307	142	5	Pump-Al, IN —
1.4	02.98 →		SAGINAW	PPS965	125	6	Pump-Al
1.4	02.98 →		SAGINAW	PPS964	75	1	Pump-Al
1.6	04.93 → 02.98		SAGINAW	PPS193	141	4	
1.6	04.93 → 02.98		SAGINAW	PPS625	141	5	
1.6	02.98 →		SAGINAW	PPS315			Pump-Al, IN —
1.6	02.98 →		SAGINAW	PPS307	142	5	Pump-Al, IN —
1.6	02.98 →		SAGINAW	PPS965	125	6	Pump-Al
1.6	02.98 →		SAGINAW	PPS054	133	6	Pump-Al
1.6	02.98 →		SAGINAW	PPS517	114	6	Pump-Al
1.6	02.98 →		SAGINAW	PPS964	75	1	Pump-Al
1.8 8V	04.93 → 02.98	×AC	SAGINAW	PPS219	142	6	
1.8 8V	02.98 →	×AC	SAGINAW	PPS054	133	6	Pump-Al, SAG. 9632335080
1.8 8V	04.93 → 02.98	AC	SAGINAW	PPS057	142	6	
1.8 8V	02.98 →	AC	SAGINAW	PPS521	142	6	Pump-Al, SAG. 9632335580
1.8 8V	02.98 →		SAGINAW	PPS517	114	6	Pump-Al, SAG. 9632335080
1.8 8V	02.98 →		SAGINAW	PPS541			SAG. 9636676280
1.8 8V	02.98 →		SAGINAW	PPS948	142	6	SAG. 9636676380
1.8 16V	04.93 → 02.98	×AC	SAGINAW	PPS219	142	6	
1.8 16V	02.98 →	×AC	SAGINAW	PPS527			
1.8 16V	02.98 →	AC	SAGINAW	PPS528			
1.9 D/TD	04.93 → 02.98	×AC	SAGINAW	PPS180	133	6	
1.9 D/TD	02.98 →	×AC	SAGINAW	PPS054	133	6	Pump-Al
1.9 D/TD	04.93 → 1996	AC	SAGINAW	PPS181	114	6	
1.9 D/TD	1996 → 11.98	AC	SAGINAW	PPS318	114	6	Pump-Fe
1.9 D/TD	02.98 →		SAGINAW	PPS517	114	6	Pump-Al
1.9 D/TD	02.98 →		SAGINAW	PPS055	114	6	
2.0	04.93 → 07.99	×AC	SAGINAW	PPS219	142	6	
2.0	07.99 →	×AC	SAGINAW	PPS541			
2.0	04.93 → 07.99	AC	SAGINAW	PPS927			
2.0	07.99 →	AC	SAGINAW	PPS948	142	6	
2.0 HDi	05.99 →		SAGINAW	PPS368	125	6	

309							
1.6	02.86 → 06.93		SAGINAW	PPS193	141	4	
1.8 TD	09.89 → 06.93		SAGINAW	PPS024	75	1	
1.9 D	09.86 → 06.91		HOBURN	PPS237	83	1	
1.9 D	09.86 → 06.91		SAGINAW	PPS424			
1.9 D	06.91 → 06.93		SAGINAW	PPS024	75	1	
1.9 i	04.87 → 09.91		SAGINAW	PPS193	141	4	

405							
1.4	10.92 → 08.93	Eng. TU3/TU3M	SAGINAW	PPS193	141	4	
1.6	01.88 → 10.92	Eng. XU5, Carb.	SAGINAW	PPS193	141	4	
1.6 i	02.91 → 09.93	Eng. XU5C	SAGINAW	PPS193	141	4	
1.6 i	09.93 → 09.95	Eng. XU5M/XU52C	SAGINAW	PPS193	141	4	



			FOR MANUFACTURER	PATRON	 mm 	PORTS	REMARKS
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## PEUGEOT

405							
1.6 i	09.93 → 09.95	Eng. XU5JP	SAGINAW	PPS057	142	6	
1.8	10.92 → 02.97	Eng. XU7JP	SAGINAW	PPS057	142	6	
1.8 TD	08.88 → 10.92	Eng. XUD7TE	SAGINAW	PPS024	75	1	A3
1.8 TD	08.88 → 10.92		SAGINAW	PPS181	114	6	A4
1.9	01.88 → 10.92	Eng. XU9, Carb.	SAGINAW	PPS193	141	4	
1.9 D	08.88 → 1992	Eng. XUD9	SAGINAW	PPS024	75	1	
1.9 D	08.88 → 1992		SAGINAW	PPS181	114	6	
1.9 D	1992 → 02.97	Eng. XUD9	SAGINAW	PPS180	133	6	
1.9 D	1992 → 02.97		SAGINAW	PPS181	114	6	
1.9 TD	10.92 → 02.97	Eng. XUD9TE	SAGINAW	PPS180	133	6	
1.9 TD	10.92 → 02.97		SAGINAW	PPS181	114	6	
1.9 i 8V	01.88 → 10.92	Eng. XU9J2	SAGINAW	PPS193	141	4	
1.9 i Mi16	10.88 → 10.92	Eng. XU9J4	SAGINAW	PPS024	75	1	
2.0 8V	10.92 → 02.97	Eng. XU10J1	SAGINAW	PPS219	142	6	

406							
1.8 i	02.96 →	×AC	ZF	PPS229	142	6	
1.9 TD	02.96 →	×AC	SAGINAW/ZF	PPS225	114	6	
2.0	02.96 → 04.99		SAGINAW/ZF	PPS225	114	6	
2.0	02.96 → 04.99		ZF	PPS959	106	6	
2.0	04.99 →		ZF	PPS654	126	6	
2.0 TD/HDI	12.98 →		SAGINAW	PPS503	126	6	
2.1 TD	07.96 → 11.98		SAGINAW/ZF	PPS225	114	6	
3.0 V6	01.97 →		SAGINAW	PPS375			

605							
1.9 D	1996 → 12.98		SAGINAW	PPS388	106	6	
2.0 8V Turbo	09.90 → 01.95		SAGINAW	PPS423	96	1	
2.1 TD	1990 →		SAGINAW	PPS217	90	4	
2.5 TD	1996 → 12.98		SAGINAW	PPS388	106	6	
3.0 V6	1990 →		SAGINAW	PPS339	67	4	



806							
1.9 TD	10.95 → 08.99		ZF	PPS926	114	6	L = 113 mm
1.9 TD	10.95 → 08.99		ZF	PPS1018	114	6	L = 107 mm
2.0	10.95 → 07.02		SAGINAW/ZF	PPS225	114	6	
2.0	10.95 → 07.02		ZF	PPS963	142	6	
2.0 HDi	08.99 → 07.02		ZF	PPS1034	125	6	

BOXER							
2.5 D/TD	06.94 → 03.02		SAGINAW	PPS037	108	6	

EXPERT							
1.9 D/TD	09.96 →		ZF	PPS056	114	6	L = 113 mm
1.9 D/TD	09.96 →		ZF	PPS1018	114	6	L = 107 mm





J5							
1.9 D	1987 → 1994		SAGINAW	PPS404	133	6	
2.5 D/TD	1987 → 1994		SAGINAW	PPS024	75	1	
2.5 D/TD	1987 → 1994		SAGINAW	PPS404	133	6	

PARTNER							
1.4	10.96 →		SAGINAW	PPS315			Pump-AI, IN —
1.4	10.96 →		SAGINAW	PPS307	142	5	Pump-AI, IN —
1.4	10.96 →		SAGINAW	PPS965	125	6	Pump-AI
1.4	10.96 →		SAGINAW	PPS964	75	1	Pump-AI
1.4	06.01 →		SAGINAW	PPS307	142	5	Pump-AI, IN —

			FOR MANUFACTURER	PATRON	 mm	PORTS	REMARKS
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## PEUGEOT

PARTNER							
1.4	06.01 →		SAGINAW	PPS965	125	6	Pump-Al
1.9 D	10.96 →	×AC	SAGINAW	PPS517	114	6	Pump-Al
1.9 D	10.96 →	×AC	SAGINAW	PPS054	133	6	Pump-Al
1.9 D	10.96 →	×AC	SAGINAW	PPS318	114	6	Pump-Fe
1.9 D	06.01 →		SAGINAW	PPS054	133	6	Pump-Al
1.9 D	06.01 →	×AC	SAGINAW	PPS517	114	6	Pump-Al
1.9 D	06.01 →	AC	SAGINAW	PPS318	114	6	Pump-Fe
1.9 TD	07.98 →		SAGINAW	PPS308	114	6	Pump-Al
2.0 HDi	02.99 →		SAGINAW	PPS535	142	6	Pump-Al

			FOR MANUFACTURER	PATRON	 mm	PORTS	REMARKS
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## PORSCHE

924							
2.5 S	09.85 → 06.88		ZF	PPS567	109	1	
928							
4.7 S	09.83 → 07.86		ZF	PPS568			
5.0 GT	09.86 → 05.92		ZF	PPS568			
5.4 GTS	05.92 → 01.95		ZF	PPS568			
944							
2.5/S	04.82 → 05.92		ZF	PPS567	109	1	
2.7	09.88 → 06.89		ZF	PPS567	109	1	
3.0 S2	01.89 → 05.92		ZF	PPS567	109	1	
968							
3.0	05.92 → 10.95		ZF	PPS567	109	1	

			FOR MANUFACTURER	PATRON	 mm	PORTS	REMARKS
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## PROTON

PERSONA							
1.6 / 1.8	11.93 → 03.00		KAYABA	PPS569	148	5	
PROTON							
1.3 / 1.5	03.89 → 08.96		KAYABA	PPS925	107	1	

			FOR MANUFACTURER	PATRON	 mm	PORTS	REMARKS
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## RENAULT

<b>5</b>							
1.4 Man	02.85 → 01.93	Eng. C2J	SAGINAW	PPS414	100	1	
1.7	07.86 → 10.90	Eng. F2N/F3N	SAGINAW	PPS415		6	

<b>9</b>							
1.4 Turbo	02.86 → 01.88	Eng. C1J	SAGINAW	PPS414	100	1	
1.6 D	12.82 → 07.87	Eng. F8M	SAGINAW	PPS415		6	
1.7	03.82 → 01.89	Eng. F2N/F3N	SAGINAW	PPS415		6	





<b>11</b>							
1.4 Turbo	04.84 → 06.89	Eng. C1J	SAGINAW	PPS414	100	1	
1.6 D	04.84 → 01.89	Eng. F8M	SAGINAW	PPS415		6	
1.7	09.83 → 06.89	Eng. F2N/F3N	SAGINAW	PPS415		6	

<b>19</b>							
1.4	02.89 → 05.92	×AC, Eng. E6J/E7J	SAGINAW	PPS286	125	6	
1.4	05.92 → 02.96	Eng. E6J/E7J/C3J	SAGINAW	PPS377	97	3	
1.7	02.89 → 05.92	Eng. F2N/F3N	SAGINAW	PPS286	125	6	
1.8 8V	05.92 → 10.95	Eng. F3P	SAGINAW	PPS286	125	6	
1.8 16V	03.91 → 09.95	Eng. F7P	SAGINAW	PPS257	111	6	
1.9 D/TD	02.89 → 02.96	×AC, Eng. F8Q	SAGINAW	PPS286	125	6	

<b>21</b>							
1.7	06.86 → 10.95	Eng. F2N/F3N	SAGINAW	PPS286	125	6	
1.9 D	09.89 → 10.95	Eng. F8Q	SAGINAW	PPS286	125	6	
2.0 8V/12V/Turbo	06.86 → 10.95	×4WD, Eng. J7R/J7T	SAGINAW	PPS226	125	1	H →28 mm← / F
2.0 8V/12V/Turbo	06.86 → 10.95		SAGINAW	PPS558	125	1	H →14 mm←
2.1 D/TD	06.86 → 10.95	Eng. J8S	SAGINAW	PPS226	125	1	H →28 mm← / F
2.1 D/TD	06.86 → 10.95		SAGINAW	PPS558	125	1	H →14 mm←

<b>25</b>							
2.0 8V/12V	07.84 → 10.92	Eng. J6R/J7R	SAGINAW	PPS226	125	1	H →28 mm← / F
2.0 8V/12V	07.84 → 10.92		SAGINAW	PPS240	125	1	H →28 mm← / C
2.0 8V/12V	07.84 → 10.92		SAGINAW	PPS558	125	1	H →14 mm←
2.1 D/TD	07.84 → 10.92	Eng. J8S	SAGINAW	PPS226	125	1	H →28 mm← / F
2.1 D/TD	07.84 → 10.92		SAGINAW	PPS240	125	1	H →28 mm← / C
2.1 D/TD	07.84 → 10.92		SAGINAW	PPS558	125	1	H →14 mm←
2.2	07.84 → 01.90	Eng. J7T	SAGINAW	PPS226	125	1	H →28 mm← / F
2.2	07.84 → 01.90		SAGINAW	PPS240	125	1	H →28 mm← / C
2.2	07.84 → 01.90		SAGINAW	PPS558	125	1	H →14 mm←

<b>CLIO I</b>							
1.2 8V	01.91 →	Eng. D7F/E7F	SAGINAW	PPS249	95	3	
1.2 8V	01.91 →		SAGINAW	PPS033	104	5	▼ RS-S-Ø35 mm
1.2 8V	01.91 →		SAGINAW	PPS067	92	6	▼ RS-S-Ø55 mm
1.2 8V	01.91 →		SAGINAW	PPS319	93	6	●
1.2 8V	01.91 →		SAGINAW	PPS520	120	4	
1.2 8V	01.91 →		SAGINAW	PPS515	135	4	
1.4 8V	01.91 →	Eng. E6J/E7J	SAGINAW	PPS249	95	3	
1.4 8V	01.91 →		SAGINAW	PPS319	93	6	●
1.4 8V	01.91 →		SAGINAW	PPS536	127	6	▼ RS-S-Ø55 mm
1.4 8V	01.91 →		SAGINAW	PPS957	132	4	
1.4 8V	01.91 →		SAGINAW	PPS515	135	4	
1.7	03.91 → 04.98		SAGINAW	PPS286	125	6	Hydr.
1.8 8V	03.91 → 10.97		SAGINAW	PPS286	125	6	Hydr.
1.9 D	03.91 → 04.01	Eng. F8Q	SAGINAW	PPS249	95	3	
1.9 D	03.91 → 04.01		SAGINAW	PPS033	104	5	▼ RS-S-Ø35 mm

			FOR MANUFACTURER	PATRON	 mm	PORTS	REMARKS
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## RENAULT

CLIO I							
1.9 D	03.91 → 04.01		SAGINAW	PPS067	92	6	▼ RS-S-Ø55 mm
1.9 D	03.91 → 04.01		SAGINAW	PPS520	120	4	

CLIO II							
1.6 8V	09.98 →	Eng. K7M	SAGINAW	PPS536	127	6	▼ RS-S-Ø55 mm
1.6 8V	09.98 →		SAGINAW	PPS957	132	4	
2.0 16V	03.00 →	Eng. F4R	SAGINAW	PPS958			▼ SAG. 7700840107





ESPACE I (J11_)							
2.0	07.85 → 12.87	Eng. J6R	SAGINAW	PPS328	138	1	
2.0	01.88 → 06.91	FWD, Eng. J6R/J7R	SAGINAW	PPS395			
2.0	03.89 → 01.91	4WD, Eng. J7R	SAGINAW	PPS226	125	1	H →28 mm← / F
2.0	03.89 → 01.91		SAGINAW	PPS558	125	1	H →14 mm←
2.1 TD	10.84 → 12.87	Eng. J8S	SAGINAW	PPS328	138	1	
2.1 TD	01.88 → 12.90	Eng. J8S	SAGINAW	PPS395			
2.2	07.86 → 12.87	Eng. J7T	SAGINAW	PPS328	138	1	
2.2	01.88 → 12.90	Eng. J7T	SAGINAW	PPS395			

ESPACE II (J/S63_)							
2.0	06.91 → 06.97	Eng. J7R	SAGINAW	PPS226	125	1	H →28 mm← / F
2.0	06.91 → 06.97		SAGINAW	PPS558	125	1	H →14 mm←
2.1 TD	01.93 → 06.97	Eng. J8S	SAGINAW	PPS226	125	1	H →28 mm← / F
2.1 TD	01.93 → 06.97		SAGINAW	PPS558	125	1	H →14 mm←
2.2	09.94 → 06.97	Eng. J7T	SAGINAW	PPS226	125	1	H →28 mm← / F
2.2	09.94 → 06.97		SAGINAW	PPS558	125	1	H →14 mm←
2.9	06.91 → 02.96	Eng. Z7W	SAGINAW	PPS213	138	1	×H
2.9	06.91 → 02.96		SAGINAW	PPS529	138	1	H

ESPACE III (JE_)							
2.0 8V	04.97 → 01.01	Eng. F_R	SAGINAW	PPS067			
2.0 16V	07.99 → 12.02	Eng. E4R	SAGINAW	PPS674			
2.2 TD	04.97 → 12.02	×AC, Eng. G8T	SAGINAW	PPS945	115	6	
2.2 TD	04.97 → 12.02	AC, Eng. G8T	SAGINAW	PPS944	115	6	
3.0 12V	04.97 → 01.99	Incl. AC, Eng. Z7X	SAGINAW	PPS923			

KANGOO							
1.2	05.98 →		SAGINAW	PPS536	127	6	▼ RS-S-Ø55 mm
1.2	05.98 →		SAGINAW	PPS957	132	4	OE 7700419117
1.2	05.98 →		SAGINAW	PPS681			OE 7700840105/_805
1.4	10.99 →		SAGINAW	PPS536	127	6	▼ RS-S-Ø55 mm
1.4	10.99 →		SAGINAW	PPS957	132	4	
1.9 D	05.98 →		SAGINAW	PPS033	104	5	▼ RS-S-Ø35 mm
1.9 D	05.98 →		SAGINAW	PPS067	92	6	▼ RS-S-Ø55 mm
1.9 D	05.98 →		SAGINAW	PPS520	120	4	

LAGUNA							
1.6 16V	05.98 → 01.01	Eng. K4M	SAGINAW	PPS1010			▼
1.8 8V	04.94 → 04.98	Eng. F3P	SAGINAW	PPS005	99	6	●
1.8 8V	04.94 → 04.98		SAGINAW	PPS241	99	6	▼
1.8 16V	09.98 → 01.01	Eng. F4P	SAGINAW	PPS005	99	6	●
1.8 16V	09.98 → 01.01		SAGINAW	PPS241	99	6	▼
1.8 16V	02.01 →	Eng. F4P	SAGINAW	PPS673	126	6	
1.9 TD/DTI	05.98 → 01.01	×AC, Eng. F9Q	SAGINAW	PPS530			
1.9 TD/DTI	05.98 → 01.01	AC, Eng. F9Q	SAGINAW	PPS941			▼
1.9 TD/DTI	12.99 → 01.01	Incl. AC, Eng. F9Q	SAGINAW	PPS1008	125	6	
2.0 8V	04.98 → 01.01	Eng. F3R	SAGINAW	PPS005	99	6	●
2.0 8V	04.98 → 01.01		SAGINAW	PPS241	99	6	▼

			<b>FOR MANUFACTURER</b>	<b>PATRON</b>	 mm	<b>PORTS</b>	<b>REMARKS</b>
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## RENAULT

LAGUNA							
2.0 16V	04.95 → 05.99	Eng. N7Q	SAGINAW	PPS553	140	6	
2.2 D	04.95 → 04.98	×AC, Eng. G8T	SAGINAW	PPS402	132	6	
2.2 D	04.95 → 04.98	AC, Eng. G8T	SAGINAW	PPS531			
2.2 TD	06.96 →	×AC, Eng. G8T	SAGINAW	PPS317	118	6	
2.2 TD	06.96 → 01.01	AC, Eng. G8T	SAGINAW	PPS504	118	6	
3.0 12V	04.94 → 10.96	AC, Eng. Z7X	SAGINAW	PPS605	85	5	

MASTER II (_D)							
2.2 TD	11.00 →		SAGINAW	PPS655	126	5	
2.2 TD	11.00 →		SAGINAW	PPS687	126	6	
2.2 TD	11.00 →		SAGINAW	PPS674			
2.5 D/TD	03.98 →		ZF	PPS262			×Belt
2.5 D/TD	03.98 →		SAGINAW/ZF	PPS239			×Belt
2.8 TD	03.98 → 10.00		ZF	PPS262			×Belt
2.8 TD	03.98 → 10.00		SAGINAW/ZF	PPS239			×Belt

MEGANE							
1.4 8V	04.96 → 11.00		SAGINAW	PPS532	113	6	▼ RS-S-Ø55 mm
1.4 8V	04.96 → 11.00		SAGINAW	PPS536	127	6	▼ RS-S-Ø55 mm
1.4 8V	04.96 → 11.00		SAGINAW	PPS032	97	3	● Ø64 mm
1.4 8V	04.96 → 11.00		SAGINAW	PPS957	132	4	
1.4 8V	04.96 → 11.00	×AC, Eng. E7J	SAGINAW	PPS533	113	6	● Ø50 mm
1.4 8V	04.96 → 04.99	AC, Eng. E7J	SAGINAW	PPS034			▼ SAG. 7700417137
1.4 16V	04.99 → 03.03	Eng. K4J	SAGINAW	PPS067	132	6	
1.6 8V	04.96 → 04.99		SAGINAW	PPS533	113	6	● Ø50 mm
1.6 8V	04.96 → 04.99		SAGINAW	PPS532	113	6	▼ RS-S-Ø55 mm
1.6 8V	04.96 → 04.99		SAGINAW	PPS536	127	6	▼ RS-S-Ø55 mm
1.6 8V	04.96 → 04.99		SAGINAW	PPS067	92	6	▼ RS-S-Ø55 mm
1.6 8V	04.96 → 04.99		SAGINAW	PPS033	104	5	▼ RS-S-Ø35 mm
1.6 8V	04.96 → 04.99		SAGINAW	PPS957	132	4	
1.6 8V	04.96 → 04.99		SAGINAW	PPS520	120	4	
1.6 8V	04.96 → 04.99	Incl. AC, Eng. K7M	SAGINAW	PPS376			
1.6 16V	04.99 → 05.03		SAGINAW	PPS1009			OE 26090956, 8200112299, 8200113599
1.6 16V	04.99 → 05.03		SAGINAW	PPS956			OE 7700431283, 7700431286
1.9 D/TD	04.96 → 03.03		SAGINAW	PPS532	113	6	▼ RS-S-Ø55 mm
1.9 D/TD	04.96 → 03.03		SAGINAW	PPS940	110	6	▼ RS-S-Ø55 mm
1.9 D/TD	04.96 → 03.03		SAGINAW	PPS067	92	6	▼ RS-S-Ø55 mm
1.9 D/TD	04.96 → 03.03		SAGINAW	PPS033	104	5	▼ RS-S-Ø35 mm
1.9 D/TD	04.96 → 03.03	Incl. AC, Eng. F8Q/F9Q	SAGINAW	PPS533	113	6	● Ø50 mm
1.9 D/TD	04.96 → 03.03		SAGINAW	PPS032	97	3	● Ø64 mm
1.9 D/TD	04.96 → 03.03		SAGINAW	PPS520	120	4	
2.0 8V/16V	04.96 → 04.99		SAGINAW	PPS967			▼
2.0 8V/16V	04.96 → 04.99		SAGINAW	PPS958			▼ SAG. 7700840107
2.0 8V/16V	04.96 → 04.99	×AC, Eng. F3R/F7R	SAGINAW	PPS268	126	6	●
2.0 8V/16V	04.96 → 04.99	AC, Eng. F3R/F7R	SAGINAW	PPS034			▼ SAG. 7700417137





SAFRANE							
2.0 8V/12V	11.92 → 11.96	Eng. J7R	SAGINAW	PPS316	130	1	
2.0 16V	11.96 → 01.00	Eng. N7Q	SAGINAW	PPS553	140	6	
2.1 TD	11.92 → 11.96	Eng. J8S	SAGINAW	PPS220	114	6	
2.2 12V	03.94 → 11.96	Eng. J7T	SAGINAW	PPS316	130	1	
2.2 TD	11.96 → 01.00	Eng. G8T	SAGINAW	PPS317	118	6	
2.5 20V	11.96 → 01.00	Eng. N7U	SAGINAW	PPS553	140	6	
2.5 TD	06.95 → 11.96	Eng. N7U	SAGINAW	PPS220	114	6	
3.0 12V	11.92 → 11.96	Eng. Z7X	SAGINAW	PPS513	120	4	

			FOR MANUFACTURER	PATRON	 mm	PORTS	REMARKS
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## RENAULT

TRAFIC (_X_)							
2.0 8V	06.86 → 09.94	Eng. J5R	SAGINAW	PPS220	114	6	
2.1 D	07.94 → 03.98	Eng. J8S	SAGINAW	PPS220	114	6	
2.4 D	1995 → 2000		SAGINAW	PPS622	92	6	

TRAFIC (_L)							
1.9 TD	09.01 →		SAGINAW	PPS655	126	5	
1.9 TD	09.01 →		SAGINAW	PPS687	126	6	
1.9 TD	09.01 →		SAGINAW	PPS674			
2.0 16V	09.01 →		SAGINAW	PPS655	126	5	
2.0 16V	09.01 →		SAGINAW	PPS687	126	6	
2.0 16V	09.01 →		SAGINAW	PPS674			

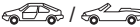

			FOR MANUFACTURER	PATRON	 mm	PORTS	REMARKS
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## ROVER






25							
1.1 16V	04.01 →	Eng. K	HOBOURN	PPS1007	110	3	
1.4 16V	11.99 →	Eng. K	HOBOURN	PPS1007	110	3	
1.6 16V	11.99 →	Eng. K	HOBOURN	PPS1007	110	3	
1.8 16V	11.99 →	Eng. K	HOBOURN	PPS1007	110	3	

45							
1.4 16V	01.00 →	Eng. K	HOBOURN	PPS1007	110	3	
1.6 16V	01.00 →	Eng. K	HOBOURN	PPS1007	110	3	
1.8 16V	01.00 →	Eng. K	HOBOURN	PPS1007	110	3	

75							
2.5 V6	03.99 →		HOBOURN	PPS665	130	6	

200-SERIE (RF)							
1.4	11.95 → 10.99		HOBOURN	PPS184	109	3	
1.6	11.95 → 10.99		HOBOURN	PPS184	109	3	
1.6 DOHC 	03.96 → 06.99		HOBOURN	PPS184	109	3	
1.8	10.96 → 10.99	Eng. VVC	HOBOURN	PPS184	109	3	
1.8 	03.96 → 06.99	Eng. VVC	HOBOURN	PPS184	109	3	
2.0 TD	11.95 → 10.99	×AC	HOBOURN	PPS186			A5
2.0 TD	11.95 → 10.99	AC	HOBOURN	PPS236	129	5	A5

200-SERIE (XW)							
214 1.4 16V	10.89 → 10.95		HOBOURN	PPS183	108	3	
216 1.6 SOHC	10.89 → 10.95		HOBOURN	PPS242	119	1	
216 1.6 DOHC	09.90 → 10.95		HOBOURN	PPS250	118	1	Pump-Fe
218 1.8 TD	03.91 → 10.95	CH →  B143164	HOBOURN	PPS198	85	1	
218 1.8 TD	03.91 → 10.95	CH B143165  →	HOBOURN	PPS201			
218 1.9 D	03.91 → 10.95	CH →  B143164	HOBOURN	PPS198	85	1	
218 1.9 D	03.91 → 10.95	CH B143165  →	HOBOURN	PPS201			











			FOR MANUFACTURER	PATRON	 mm 	PORTS	REMARKS
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## ROVER

### 200-SERIE (XW)

220 2.0 16V		06.91 → 10.95		HOBOURN	PPS228	137	5	
220 2.0 16V		10.92 → 10.95		HOBOURN	PPS230			Pump-Fe, A5

### 400-SERIE (RT)

414 1.4		03.90 → 10.95		HOBOURN	PPS183	108	3	
416 1.6 GTI DOHC		03.90 → 11.91		HOBOURN	PPS250	118	1	Pump-Fe
416 1.6 SOHC		03.90 → 10.95		HOBOURN	PPS242	119	1	
418 1.8		03.96 → 12.96	Eng. VVC	HOBOURN	PPS183	108	3	
418 1.8 TD		03.91 → 10.95	CH →  B143164	HOBOURN	PPS198	85	1	
418 1.8 TD		03.91 → 10.95	CH B143165  →	HOBOURN	PPS201			
418 1.8 TD		06.94 → 12.96		HOBOURN	PPS201			
418 1.9 D		10.92 → 10.95	CH →  B143164	HOBOURN	PPS198	85	1	
418 1.9 D		10.92 → 10.95	CH B143165  →	HOBOURN	PPS201			
420 2.0		10.92 → 10.95		HOBOURN	PPS228	137	5	

### 400-SERIE (XW)





414 1.4		05.95 → 12.99	CH →  AD039996	HOBOURN	PPS183	108	3	
414 1.4		05.95 → 12.99	CH AD039997  →	HOBOURN	PPS184	109	3	
416 1.6 SOHC Auto		05.95 → 12.99	CH →  AD250028		PPS421			
416 1.6 SOHC Auto		05.95 → 12.99	CH AD250029  →		PPS337			
416 1.6 DOHC Man		05.95 → 12.99	CH →  AD039996	HOBOURN	PPS183	108	3	
416 1.6 DOHC Man		05.95 → 12.99	CH AD039997  →	HOBOURN	PPS184	109	3	
420 2.0 16V		11.95 → 12.99	×AC	HOBOURN	PPS186			A5
420 2.0 16V		11.95 → 12.99	AC	HOBOURN	PPS236	129	5	A5
420 2.0 TD		11.95 → 12.99	Intercooler	HOBOURN	PPS952	130	6	
420 2.0 TD		11.95 → 12.99	×AC, ×Intercooler	HOBOURN	PPS186			A5
420 2.0 TD		11.95 → 12.99	AC, ×Intercooler	HOBOURN	PPS236	129	5	A5

### 600-SERIE (RH)

618 1.8		10.93 → 1996		HONDA	PPS275	117	4	
618 1.8		1996 → 10.99	×AC	HOBOURN	PPS334			A5
618 1.8		1996 → 10.99	AC	HOBOURN	PPS333			A5
620 2.0 16V		04.93 → 1996	CH →  AM246796	HONDA	PPS275	117	4	
620 2.0 16V		1996 → 10.99	×AC, CH BM246797  →	HOBOURN	PPS334			A5
620 2.0 16V		1996 → 10.99	AC, CH BM246797  →	HOBOURN	PPS333			A5
620 2.0 16V Turbo		07.94 → 1996	×AC	HOBOURN	PPS235			A5
620 2.0 16V Turbo		07.94 → 1996	AC	HOBOURN	PPS335			
620 2.0 16V Turbo		1996 → 10.99	×AC	HOBOURN	PPS334			
620 2.0 16V Turbo		1996 → 10.99	AC	HOBOURN	PPS333			A5
620 2.0 TD		12.94 → 1996	×AC	HOBOURN	PPS235			A5
620 2.0 TD		12.94 → 1996	AC	HOBOURN	PPS335			A5
620 2.0 TD		1996 → 10.99	×AC	HOBOURN	PPS334			A5
620 2.0 TD		1996 → 10.99	AC	HOBOURN	PPS333			A5
623 2.3 16V		10.93 → 1996		HONDA	PPS275	117	4	
623 2.3 16V		1996 → 10.99	×AC	HOBOURN	PPS334			A5
623 2.3 16V		1996 → 10.99	AC	HOBOURN	PPS333			A5

### 800-SERIE (XS/RS)

820 2.0		07.86 → 10.88		HOBOURN	PPS231			NW
820 2.0		07.86 → 10.88		HOBOURN	PPS206			KW
820 2.0		10.88 → 10.91		HOBOURN	PPS206			
820 2.0		07.86 → 10.91		HOBOURN	PPS419	150	5	
820 2.0		11.91 → 08.98		HOBOURN	PPS216			A5
820 2.0		11.91 → 08.98		HOBOURN	PPS1020			Pump-Fe, A5
820 2.0		11.91 → 08.98		HOBOURN	PPS221			A5
825 2.5 TD		09.90 → 08.91		HOBOURN	PPS215	150	5	IR
825 2.5 TD		12.91 → 08.98		HOBOURN	PPS215	150	5	IR

			FOR MANUFACTURER	PATRON		PORTS	REMARKS
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## ROVER

800-SERIE (XS/RS)							
825 2.5 V6	07.86 → 02.88		HONDA	PPS332	110	1	
825 2.5 V6	01.96 → 04.99		HOBOURN	PPS331			
827 2.7 V6	02.88 → 08.91		HONDA	PPS332	110	1	
827 2.7 V6	11.91 → 03.96		HONDA	PPS332	110	1	

MAESTRO							
2.0	10.84 → 11.91		HOBOURN	PPS570	132	1	
2.0 D	03.90 → 01.95		HOBOURN	PPS196			A12, A11
2.0 D	03.90 → 01.95		HOBOURN	PPS582			A12, A10

MONTEGO							
1.6	02.88 → 07.91		HOBOURN	PPS276	90	1	
2.0	04.84 → 12.94		HOBOURN	PPS570	132	1	
2.0 D	10.88 → 11.94		HOBOURN	PPS196			A12, A11
2.0 D	10.88 → 11.94		HOBOURN	PPS582			A12, A10

			FOR MANUFACTURER	PATRON		PORTS	REMARKS
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## SAAB

9-3 (YS3D)							
2.0 Incl. Turbo	03.98 → 08.02		SAGINAW	PPS486	126	6	2 pcs. A6
2.0 Incl. Turbo	03.98 → 08.02		SAGINAW	PPS1045	126	6	1 pcs. A6, 1 pcs. A7
2.2 TD	03.98 → 08.02		ZF	PPS500			
2.3 Incl. Turbo	03.98 → 10.00		SAGINAW	PPS486	126	6	2 pcs. A6
2.3 Incl. Turbo	03.98 → 10.00		SAGINAW	PPS1045	126	6	1 pcs. A6, 1 pcs. A7





9-5							
2.3 Turbo	10.97 →		ZF	PPS1033	125	6	

900 I							
2.0	02.79 → 10.93		SAGINAW	PPS273	145	1	IR-B
2.0	02.79 → 10.93		SAGINAW	PPS330	145	1	
2.0	02.79 → 10.93		SAGINAW	PPS416	130	5	

900 II							
2.0 16V Incl. Turbo	10.93 → 01.98		SAGINAW	PPS290	125	6	
2.3 16V Incl. Turbo	10.93 → 01.98		SAGINAW	PPS290	125	6	
2.5 24V	10.93 → 11.97		SAGINAW	PPS1035			

9000							
2.0 / 2.3	10.85 → 1993		SAGINAW	PPS272	130	5	
2.0 / 2.3	1993 → 10.98		SAGINAW	PPS233	142	6	
3.0	10.94 → 08.96		SAGINAW	PPS576	153	6	



			<b>FOR MANUFACTURER</b>	<b>PATRON</b>	 mm	<b>PORTS</b>	<b>REMARKS</b>
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## SEAT






ALHAMBRA							
1.9 TD	05.96 →		ZF	PPS004	104	1	
1.9 TD	05.96 →		KAYABA	PPS663	120	6	L = 108 mm
1.9 TD	05.96 →		KAYABA	PPS686	120	6	L = 98 mm
2.0 i	05.96 →	CH →   7M-T-503994	ZF	PPS931	112	6	
2.0 i	05.96 →	CH 7M-T-503995   →	ZF	PPS004	104	1	

AROSA							
1.0	06.97 →	×AC	SAGINAW	PPS921	115	6	
1.0	06.97 →	AC	ZF	PPS943			
1.4 8V/16V	06.97 →	×AC	SAGINAW	PPS921	115	6	
1.4 8V/16V	06.97 →	AC	ZF	PPS943			
1.4 TD	02.01 →		ZF	PPS282	120	5	
1.7 D	02.98 →		ZF	PPS282	120	5	

CORDOBA							
1.0	09.96 → 10.02	×AC	ZF	PPS006			
1.0	09.96 → 06.99	AC	SAGINAW	PPS200	115	6	
1.0	06.99 → 10.02	AC	ZF	PPS943			
1.4 8V/16V	06.94 → 06.99	×AC	ZF	PPS282	120	5	
1.4 8V/16V	06.94 → 06.99	AC	SAGINAW	PPS200	115	6	
1.4 8V/16V	06.99 →	×AC	ZF	PPS006			
1.4 8V/16V	06.99 →	AC	ZF	PPS943			
1.6 8V	10.93 → 06.99		SAGINAW	PPS200	115	6	
1.6 8V	06.99 →		ZF	PPS282	120	5	
1.8 8V/16V	10.93 → 06.99		SAGINAW	PPS200	115	6	
1.8 20V	07.00 →		ZF	PPS282	120	5	
1.9 D/TD	02.93 → 06.99		SAGINAW	PPS200	115	6	
1.9 D/TD	06.99 →		ZF	PPS282	120	5	
2.0 8V/16V	02.93 → 06.99		SAGINAW	PPS200	115	6	

IBIZA							
1.0 8V	03.93 → 09.96		ZF	PPS006			
1.0 8V	10.96 → 01.98		SAGINAW	PPS921	115	6	
1.0 16V	05.00 → 02.02	×AC	ZF	PPS006			
1.0 16V	05.00 → 02.02	AC	ZF	PPS943			
1.3	03.93 → 08.99		ZF	PPS006			
1.4	09.93 → 08.99		ZF	PPS006			
1.4	08.99 → 04.02	×AC	ZF	PPS006			
1.4	08.99 → 04.02	AC	ZF	PPS943			
1.6	10.93 → 03.96		SAGINAW/ZF	PPS003	98	1	
1.6	04.96 → 08.99		SAGINAW	PPS200	115	6	
1.6	08.99 → 02.02		ZF	PPS282	120	5	
1.8 8V/16V	03.93 → 08.99		SAGINAW	PPS200	115	6	
1.8 Turbo	06.00 → 04.02		ZF	PPS282	120	5	
1.9 D	04.93 → 08.96		SAGINAW	PPS200	115	6	
1.9 D	09.96 → 01.01		HOBOURN/ SAGINAW	PPS920	120	5	
1.9 TD	03.93 → 08.99		SAGINAW	PPS200	115	6	
1.9 TD	08.99 → 02.02		ZF	PPS282	120	5	
2.0 8V/16V	03.93 → 09.99		SAGINAW/ZF	PPS003	98	1	

INCA							
1.4 8V	11.95 →		ZF	PPS282	120	5	
1.4 16V	04.00 →	×AC	ZF	PPS006			
1.4 16V	04.00 →	AC	ZF	PPS943			
1.7 D	01.96 →		SAGINAW/ZF	PPS002	98	1	
1.9 D	11.95 →		SAGINAW/ZF	PPS002	98	1	






			FOR MANUFACTURER	PATRON	 mm		PORTS	REMARKS
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## SEAT

LEON								
1.4 16V	04.00 →		ZF	PPS935	120	6		
1.6 8V/16V	04.00 →		ZF	PPS935	120	6		
1.8 20V Incl. Turbo	04.00 →		ZF	PPS935	120	6		
1.9 TD	04.00 →		ZF	PPS001				

TOLEDO I (1L)								
1.6	10.91 → 06.92	Carb.	SAGINAW/ZF	PPS022	98	1		
1.6 i	10.91 → 11.93	×AC	SAGINAW/ZF	PPS022	98	1		
1.6 i	11.93 → 03.99	×AC	SAGINAW	PPS200	115	6		
1.6 i	10.95 → 03.99	AC	SAGINAW/ZF	PPS003	98	1		
1.8 8V	10.95 → 03.99	AC	SAGINAW/ZF	PPS003	98	1		
1.8 8V/16V	10.91 → 11.93	×AC	SAGINAW/ZF	PPS022	98	1		
1.8 8V/16V	11.93 → 10.95	×AC	SAGINAW	PPS200	115	6		
1.9 D/TD	11.93 → 10.95	×AC	SAGINAW	PPS200	115	6		
1.9 D/TD	10.95 → 03.99	AC	SAGINAW/ZF	PPS003	98	1		
1.9 TD	10.91 → 11.93	×AC	SAGINAW/ZF	PPS022	98	1		
2.0 8V/16V	10.91 → 11.93	×AC	SAGINAW/ZF	PPS022	98	1		
2.0 8V/16V	11.93 → 10.95	×AC	SAGINAW	PPS200	115	6		
2.0 8V/16V	10.95 → 03.99	AC	SAGINAW/ZF	PPS003	98	1		





TOLEDO II (1M2)								
1.4 16V	07.99 → 09.00		SAGINAW	PPS949	120	6		
1.4 16V	07.99 → 09.00		ZF	PPS935	120	6		
1.6 8V/16V	03.99 → 09.00		SAGINAW	PPS949	120	6		
1.6 8V/16V	03.99 → 09.00		ZF	PPS935	120	6		
1.8 20V	03.99 →		SAGINAW	PPS949	120	6		
1.8 20V	03.99 →		ZF	PPS935	120	6		
1.9 TD	03.99 →		SAGINAW	PPS001				
1.9 TD	03.99 →		ZF	PPS001				
2.3 10V/20V	03.99 →		SAGINAW	PPS001				

			FOR MANUFACTURER	PATRON	 mm		PORTS	REMARKS
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## SKODA





FELICIA								
1.3	10.94 → 06.01		ZF	PPS006				
1.6	08.95 → 06.01		ZF	PPS006				
1.9 D	10.95 → 06.01		ZF	PPS282	120	5		

OCTAVIA								
1.4	04.99 →	Eng. AMD	ZF	PPS282	120	5		
1.4	08.00 →	Eng. AXP	ZF	PPS935	120	6		
1.6	09.96 →		ZF	PPS935	120	6		
1.8 Incl. Turbo	09.96 →		ZF	PPS935	120	6		
1.9 D Incl. Turbo	09.96 →		ZF	PPS001				
2.0	04.99 →	Incl. 4WD	ZF	PPS935	120	6		

			FOR MANUFACTURER	PATRON	 mm	PORTS	REMARKS
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## SKODA





SUPERB							
1.8 Turbo	02.02 →		ZF	PPS380			
1.9 TD	02.02 →		ZF	PPS360			
2.0	02.02 →		ZF	PPS380			
2.5 TD	02.02 →		ZF	PPS012	120	6	
2.8 V6	02.02 →		ZF	PPS947			

			FOR MANUFACTURER	PATRON	 mm	PORTS	REMARKS
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## SSANGYONG

KORANDO							
2.3	08.97 → 03.99		YOUNGSHIN	PPS984	127	6	
2.9 TD	08.97 → 03.99		YOUNGSHIN	PPS984	127	6	

MUSSO							
2.3	06.97 → 03.99			PPS571		6	
2.9 D/TD	05.95 → 03.99			PPS571		6	
3.2	01.97 → 03.99			PPS571		6	

			FOR MANUFACTURER	PATRON	 mm	PORTS	REMARKS
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## SUBARU

IMPREZA							
1.6	11.92 → 08.96	Eng. EJ16		PPS913	113	5	
1.8	11.92 → 08.96	Eng. EJ18		PPS913	113	5	

LEGACY I (BC/BJF)							
1.8	10.89 → 09.92	Eng. EJ18		PPS917	115	5	
2.0/Turbo	10.91 → 04.94	Eng. EJ20, EJ20T		PPS917	115	5	
2.2	10.89 → 04.94	Eng. EJ22E		PPS917	115	5	

L-SERIE							
1.8	09.86 → 01.93	Eng. EA82		PPS413			

SVX							
3.3	05.92 → 12.96	Eng. EG33D		PPS412			

			FOR MANUFACTURER	PATRON	 mm	PORTS	REMARKS
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## SUZUKI

### BALENO

1.6	05.95 → 06.99	Eng. G16B		PPS411	124	4		
1.8	08.96 → 07.01	Eng. J18A		PPS411	124	4		

### GRAND VITARA

1.6	03.98 →	Eng. G16B	KAYABA	PPS248	134	4		
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### SWIFT


1.0	06.86 → 01.93	Eng. G10A	KAYABA	PPS505	115	4		
1.0	01.95 →	Eng. G10B	KAYABA	PPS410				
1.3	06.86 → 01.93	Eng. G13A, G13B	KAYABA	PPS505	115	4		
1.3	04.92 → 10.00	Eng. G13B	KAYABA	PPS410				
1.6	06.89 → 01.93	Eng. G16B	KAYABA	PPS505	115	4		

### VITARA

1.6	10.88 → 08.99	Eng. G16A, G16B	KAYABA	PPS248	134	4		
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### X-90

1.6	04.96 → 04.98	Eng. G16B		PPS409	134	4		
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			FOR MANUFACTURER	PATRON	 mm	PORTS	REMARKS
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## TOYOTA

### AVENSIS

1.6	09.97 → 07.00	Eng. 4A-FE	ZF	PPS534				
1.8	09.97 → 07.00	Eng. 7A-FE	ZF	PPS534				
1.8 VVTi	08.00 →	Eng. 1ZZ-FE	TOYOTA	PPS644	120	6		
2.0	09.97 → 10.00	Eng. 3S-FE	ZF	PPS518	105	3		
2.0 TD	11.97 → 07.00	Eng. 2CE-TE	TOYOTA	PPS508	120	5		
2.0 VVTi	08.00 →	Eng. 1AZ-FSE	ZF	PPS518	105	3		

### CAMRY

2.0 16V	01.87 → 09.91	Eng. 3S-FE	TOYOTA	PPS408	105	3		
2.2 16V	09.91 → 11.96	Eng. 5S-FE	TOYOTA	PPS394				
3.0 V6	11.96 → 10.01	Eng. 1MZ-FE	TOYOTA	PPS577	110	4		

### CARINA II

1.6	03.88 → 05.92	Eng. 4A-F	TOYOTA	PPS327	130	3		
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### CARINA E

1.6 E 16V	05.92 → 03.96	Eng. 4A-FE	TOYOTA	PPS210	130	3		IR-Fe
1.6 E 16V	05.92 → 03.96		ZF	PPS211	130	3		
1.8 E 16V	03.95 → 11.97	Eng. 7A-FE	TOYOTA	PPS210	130	3		IR-Fe
1.8 E 16V	03.95 → 11.97		ZF	PPS211	130	3		
2.0 E 16V	05.92 → 11.97	Eng. 3S-FE/3S-GE	TOYOTA	PPS1003	105	3		
2.0 E 16V	05.92 → 11.97		ZF	PPS507	105	3		
2.0 D/TD	05.92 → 11.97	Eng. 2C	TOYOTA	PPS508	120	5		

			FOR MANUFACTURER	PATRON	 mm	PORTS	REMARKS
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## TOYOTA

### CELICA (\_T16\_)

2.0 GT	11.85 → 01.90	FWD, Eng. 3S-GE		PPS252	105	3		
2.0 GT-4	03.88 → 01.90	4WD, Eng. 3S-GTE		PPS252	105	3		

### CELICA (\_T18\_)

2.0 GT	02.90 → 02.94	FWD, Eng. 3S-GE	TOYOTA	PPS393	106	3		
2.0 GT-4	02.90 → 01.93	4WD, Eng. 3S-GTE	TOYOTA	PPS393	106	3		

### CELICA (\_T20\_)

1.8 ST	07.95 → 09.99	Eng. 7A-FE	TOYOTA	PPS922				
1.8 ST	07.95 → 09.99	Eng. 7A-FE	TOYOTA	PPS210	130	3		IR-Fe
2.0 GT	03.94 → 09.99	FWD, Eng. 3S-GE	TOYOTA	PPS922				
2.0 GT-4	03.94 → 08.96	4WD, Eng. 3S-GTE	TOYOTA	PPS922				

### CELICA (ZZT23\_)

1.8 VVTi	10.99 →	Eng. 1ZZ-FE	TOYOTA	PPS1019	121	6		
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### COROLLA (\_E9\_)

1.3 (EE90R)	08.87 → 08.92	Eng. 2E	TOYOTA	PPS292				
1.6 (AE92R)	08.87 → 08.92	Eng. 4A-F, Carb.	TOYOTA	PPS292				
1.6 4x4 (AE95R)	03.88 → 04.91	Eng. 4A-F	TOYOTA	PPS292				

### COROLLA (\_E10\_)

1.3 (EE101R)	08.92 → 06.97	Eng. 4E-FE	TOYOTA	PPS481		5		
2.0 D (CE100R)	03.93 → 06.97	Eng. 2C	TOYOTA	PPS491	132	3		

### COROLLA (\_E11\_)

1.3 (EE111R)	06.97 → 02.00	Eng. 4E-FE		PPS392				
1.6 (AE111R)	06.97 → 02.00	Eng. 4A-FE		PPS392				

### COROLLA (\_E12\_)

1.4 VVTi (ZZE120)	01.02 →	Eng. 4ZZ-FE	TOYOTA	PPS1017	121	6		
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### HIACE

2.4 TD	01.96 → 10.01	Eng. 2L	TOYOTA	PPS973	110	4		
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### HILUX

1.8	03.89 → 12.93	Eng. 2Y		PPS384	124	1		
2.2	03.89 → 04.95	Eng. 4Y		PPS384	124	1		

### MR2

2.0	04.90 → 11.99	Eng. 3S-FE/3S-GE		PPS924				Electric
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### PASEO

1.5	03.96 → 03.98	Eng. 5E-FE		PPS405	130	4		
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### PICNIC

2.0	01.97 → 08.01	Eng. 3S-FE		PPS252	105	3		
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### PREVIA





2.4	09.90 → 06.00	Eng. 2TZ-FE	TOYOTA	PPS407	132	6		
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### RAV 4

2.0	06.94 → 07.00	Eng. 3S-FE	TOYOTA	PPS406	105	3		
2.0	08.00 →	Eng. 1AZ-FE	TOYOTA	PPS646	122	7		

### SPACE CRUISER

2.0 (YR21R)	10.85 → 09.90	Eng. 3Y	TOYOTA	PPS572		1		
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			FOR MANUFACTURER	PATRON	 mm	PORTS	REMARKS
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## TOYOTA

### STARLET





1.3	04.96 → 02.99	Eng. 4E-FE		PPS405	130	4		
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### SUPRA

3.0	07.86 → 05.93	Eng. 7M-GE/7M-GTE	TOYOTA	PPS573	135	4		
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### YARIS

1.0	03.99 →	Eng. 1SZ-FE	TOYOTA	PPS611	132	4		
1.3 Incl. Verso	09.99 →	Eng. 2NZ-FE	TOYOTA	PPS611	132	4		
1.5	04.01 →	Eng. 1NZ-FE	TOYOTA	PPS676	140	3		

			FOR MANUFACTURER	PATRON	 mm	PORTS	REMARKS
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## VOLKSWAGEN








### BEETLE

1.4	11.01 →		ZF	PPS935	120	6		
1.4	11.01 →	×AC	ZF	PPS282	120	5		
1.4	11.01 →	AC	SAGINAW	PPS949	120	6		
1.6	10.99 →		SAGINAW	PPS949	120	6		
1.6	10.99 →		ZF	PPS935	120	6		
1.8 Turbo	10.99 →		SAGINAW	PPS949	120	6		
1.8 Turbo	10.99 →		ZF	PPS935	120	6		
1.9 TD	01.98 →		SAGINAW	PPS001				
1.9 TD	01.98 →		ZF	PPS001				
2.0	01.98 →		SAGINAW	PPS949	120	6		
2.0	01.98 →		ZF	PPS935	120	6		
2.3 V5	10.00 →		SAGINAW	PPS001				

### BORA






1.4	10.98 →		ZF	PPS935	120	6		
1.6	10.98 →		ZF	PPS935	120	6		
1.8/Turbo	10.98 →		ZF	PPS935	120	6		
1.9 D/TD	10.98 →		ZF	PPS001				
2.0	10.98 →		ZF	PPS935	120	6		
2.3 V5	10.98 → 10.00	Eng. AGZ	ZF	PPS001				

### CADDY II

1.4	 01.95 →		ZF	PPS282	120	5		
1.6	 11.95 →		ZF	PPS282	120	5		
1.6	 10.97 →	×AC	ZF	PPS006				
1.6	 10.97 →	AC	ZF	PPS943				
1.9 D	 11.95 →		SAGINAW/ZF	PPS002	98	1		
1.9 D	 10.97 →		ZF	PPS282	120	5		
1.9 TD	 09.96 →		SAGINAW/ZF	PPS002	98	1		

### CORRADO

1.8 ×G60	04.89 → 07.92		SAGINAW/ZF	PPS002	98	1		
2.0 8V	04.93 → 12.95		SAGINAW/ZF	PPS002	98	1		

			FOR MANUFACTURER	PATRON	 mm 	PORTS	REMARKS
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## VOLKSWAGEN

























### CORRADO

2.0 16V	08.91 → 12.95		SAGINAW/ZF	PPS022	98	1		
2.9 VR6	08.91 → 12.95		ZF	PPS282	120	5		

### GOLF II (19E, 1G1)

1.05 / 1.3 / 1.6 Incl. Diesel	08.83 → 07.92		SAGINAW/ZF	PPS022	98	1		
1.8 ×G60	08.83 → 07.92		SAGINAW/ZF	PPS022	98	1		

### GOLF III (1H\_/1E7)






1.4	10.91 → 03.98		SAGINAW	PPS962				
1.4  / 	10.91 → 03.98		ZF	PPS282	120	5		
1.6	09.92 → 03.98		ZF	PPS282	120	5		
1.6	09.92 → 03.98		SAGINAW	PPS962				
1.6 	09.92 → 03.98		SAGINAW/ZF	PPS002	98	1		
1.6 	07.94 → 04.99	CH →  1H-S-78185	SAGINAW/ZF	PPS003	98	1		
1.6 	07.94 → 04.99	CH 1H-S-78186  →	SAGINAW/ZF	PPS002	98	1		
1.6 	10.94 → 05.98		SAGINAW/ZF	PPS002	98	1		
1.8 	11.91 → 07.99	CH →  1H-S-78185	SAGINAW/ZF	PPS003	98	1		
1.8 	11.91 → 07.99	CH 1H-S-78186  →	SAGINAW/ZF	PPS002	98	1		
1.8 	07.93 → 05.98		SAGINAW/ZF	PPS002	98	1		
1.9 D 	11.91 → 07.99	Eng. 1Y, CH →  1H-S-78185	SAGINAW/ZF	PPS003	98	1		
1.9 D 	11.91 → 07.99	Eng. 1Y, CH 1H-S-78186  →	SAGINAW/ZF	PPS002	98	1		
1.9 GTD/TD/TDI 	11.91 → 07.99	Eng. AAZ, CH →  1H-S-78185	SAGINAW/ZF	PPS003	98	1		
1.9 GTD/TD/TDI 	11.91 → 07.99	Eng. AAZ, CH 1H-S-78186  →	SAGINAW/ZF	PPS002	98	1		
1.9 SDI 	04.97 → 08.97	Eng. AEY	SAGINAW/ZF	PPS002	98	1		
1.9 TDI/TD 	09.93 → 08.97	Eng. 1Z/AHU/ALE, CH →  1H-S-78185	SAGINAW/ZF	PPS003	98	1		
1.9 TDI/TD 	09.93 → 08.97	Eng. 1Z/AHU/ALE, CH 1H-S-78186  →	SAGINAW/ZF	PPS002	98	1		
1.9 TDI/TD 	04.96 → 08.97	Eng. AFN	SAGINAW/ZF	PPS002	98	1		
1.9 TD/TDI 	07.96 → 05.98		SAGINAW/ZF	PPS002	98	1		
2.0 8V/16V	11.91 → 03.98	CH →  1H-S-78185	SAGINAW/ZF	PPS003	98	1		
2.0 8V/16V 	11.91 → 03.98	CH 1H-S-78186  →	SAGINAW/ZF	PPS002	98	1		
2.0 8V 	07.93 → 05.98		SAGINAW/ZF	PPS002	98	1		
2.8 VR6 	01.92 → 03.98	CH →  1H-S-78185	ZF	PPS501				
2.8 VR6 	01.92 → 03.98	CH 1H-S-78186  →	ZF	PPS282	120	5		
2.9 VR6 	10.94 → 08.97	CH →  1H-S-78185	ZF	PPS501				
2.9 VR6 	10.94 → 08.97	CH 1H-S-78186  →	ZF	PPS282	120	5		

### GOLF IV (1J\_/1E7)

1.4	08.97 →		ZF	PPS935	120	6		
1.4	08.97 →		SAGINAW	PPS949	120	6		
1.6	08.97 →		KAYABA	PPS1013				
1.6	08.97 →		SAGINAW	PPS949	120	6		
1.6	08.97 →		ZF	PPS935	120	6		
1.8/Turbo	08.97 →		KAYABA	PPS1013				
1.8/Turbo	08.97 →		SAGINAW	PPS949	120	6		
1.8/Turbo	08.97 →		ZF	PPS935	120	6		
1.9 D/TD	08.97 →		SAGINAW	PPS001				
1.9 D/TD	08.97 →		ZF	PPS001				
2.0	07.98 →		SAGINAW	PPS949	120	6		
2.0	07.98 →		ZF	PPS935	120	6		
2.3 V5	08.97 → 10.00		ZF	PPS001				
2.3 V5	01.00 →		SAGINAW	PPS001				

### JETTA II (19E, 1G2)

1.3	06.87 → 12.91		SAGINAW/ZF	PPS022	98	1		
1.6	01.84 → 11.92		SAGINAW/ZF	PPS022	98	1		

			FOR MANUFACTURER	PATRON	 mm 	PORTS	REMARKS
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## VOLKSWAGEN





JETTA II (19E, 1G2)							
1.6 D/TD	01.84 → 12.91		SAGINAW/ZF	PPS022	98	1	
1.8	01.84 → 11.92		SAGINAW/ZF	PPS022	98	1	

LT I							
2.4 (28, 40, 55)	12.82 → 07.92	Carb.	ZF	PPS383	130	1	
2.4 D (28, 40, 55)	12.78 → 06.96		ZF	PPS383	130	1	
2.4 TD (28, 40, 55)	12.82 → 06.96		ZF	PPS383	130	1	
2.4 i (28, 40, 55)	08.89 → 06.96		ZF	PPS383	130	1	





LT II							
2.5 D (28, 35)	07.96 →		LUK	PPS068			
2.5 TD (28, 32, 35, 46)	07.96 →		LUK	PPS068			
2.8 TD	01.99 →		LUK	PPS680			

LUPO (6X1, 6E1)							
1.0	09.98 →		SAGINAW	PPS921	115	6	
1.0	09.98 →	×AC	ZF	PPS006			
1.0	09.98 →	AC	ZF	PPS943			
1.2 TD	11.98 →		ZF	PPS282	120	5	
1.4 16V	09.98 →	×AC	ZF	PPS006			
1.4 16V	09.98 →	AC	ZF	PPS943			
1.4 TD	01.99 →		ZF	PPS282	120	5	
1.6 GTI	09.00 →	AC	ZF	PPS943			
1.7 D	09.98 →		ZF	PPS282	120	5	

PASSAT (32B)							
1.8	08.81 → 12.88		ZF	PPS305	130	1	
1.9	10.81 → 08.83		ZF	PPS305	130	1	
2.0	08.83 → 12.88		ZF	PPS305	130	1	
2.23	08.81 → 12.88		ZF	PPS305	130	1	

PASSAT (3A_/35I)							
1.6	02.88 → 09.91	Eng. 1F/EZ	SAGINAW/ZF	PPS022	98	1	
1.6	10.94 → 08.96	Eng. AEK	SAGINAW/ZF	PPS002	98	1	
1.6 TD	01.88 → 12.93		SAGINAW/ZF	PPS022	98	1	
1.8 8V	02.88 → 09.96	Eng. AAM/ABS/RP, CH →  31-N-500000	SAGINAW/ZF	PPS022	98	1	
1.8 8V	02.88 → 09.96	Eng. AAM/ABS/RP, CH 31-P-000001  →	SAGINAW/ZF	PPS002	98	1	
1.8 8V	04.88 → 07.93	Eng. PF/PB	SAGINAW/ZF	PPS022	98	1	
1.8 16V ×G60	04.88 → 12.89	Eng. KR	SAGINAW/ZF	PPS022	98	1	
1.8 G60	08.88 → 08.96	AC, Eng. PG	SAGINAW/ZF	PPS003	98	1	
1.9 D	05.89 → 10.93		SAGINAW/ZF	PPS002	98	1	
1.9 TD	03.91 → 09.96		SAGINAW/ZF	PPS002	98	1	
2.0 8V	02.90 → 09.96	×AC, Eng. 2E/ADY/AGG, CH →  31-N-500000	SAGINAW/ZF	PPS022	98	1	
2.0 8V	02.90 → 09.96	×AC, Eng. 2E/ADY/AGG, CH 31-P-000001  →	SAGINAW/ZF	PPS003	98	1	
2.0 8V	02.90 → 09.96	AC, Eng. 2E/ADY/AGG	SAGINAW/ZF	PPS002	98	1	
2.0 8V	03.95 → 09.96	Eng. AEP	SAGINAW/ZF	PPS002	98	1	
2.0 16V	08.88 → 09.93	Eng. 9A	SAGINAW/ZF	PPS022	98	1	
2.0 16V	01.94 → 08.96	Eng. ABF	SAGINAW/ZF	PPS002	98	1	
2.0 16V Syncro 	10.90 → 1994	Eng. 2E/ADY/AGG	SAGINAW/ZF	PPS022	98	1	
2.0 16V Syncro 	1994 → 08.96	Eng. 2E/ADY/AGG	SAGINAW/ZF	PPS003	98	1	
2.0 16V Syncro 	10.90 → 05.97	Eng. 2E/ADY/AGG, CH →  31-M-500000	SAGINAW/ZF	PPS022	98	1	
2.0 16V Syncro 	10.90 → 05.97	Eng. 2E/ADY/AGG, CH 31-P-000001  →	SAGINAW/ZF	PPS002	98	1	







			<b>FOR MANUFACTURER</b>	<b>PATRON</b>	 mm mm	<b>PORTS</b>	<b>REMARKS</b>
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## VOLKSWAGEN



























PASSAT (3A_/35I)							
2.8 VR6	06.91 → 08.96	Eng. AAA, CH →  31-N-049999	ZF	PPS501			
2.8 VR6	06.91 → 08.96	Eng. AAA, CH 31-N-050000  →	ZF	PPS282	120	5	
2.9 VR6 Syncro	01.94 → 05.97	Eng. ABV	ZF	PPS282	120	5	

PASSAT (3B_)							
1.6	10.96 →		ZF	PPS380			
1.6	10.96 →		KAYABA	PPS1036			
1.8	01.97 → 12.00	Eng. AFY, CH →  3B-VP-113282	ZF	PPS309			
1.8	01.97 → 12.00	Eng. AFY, CH 3B-VP-113283  →	ZF	PPS380			
1.8	01.97 → 12.00	Eng. AFY	KAYABA	PPS1036			
1.8	10.96 → 12.00	Eng. ADR/APT/ARG, CH →  3B-VP-113282, CH →  3B-VE-116998	ZF	PPS309			
1.8	10.96 → 12.00	Eng. ADR/APT/ARG, CH 3B-VP-113283  →, CH 3B-VE-116999  →	ZF	PPS380			
1.8	10.96 → 12.00	Eng. ADR/APT/ARG	KAYABA	PPS1036			
1.8 Syncro	10.96 → 12.00		ZF	PPS380			
1.8 Syncro	10.96 → 12.00		KAYABA	PPS1036			
1.8 Turbo	10.96 → 12.00	Eng. AEB/ANB/APU, CH →  3B-VP-113282, CH →  3B-VE-116998	ZF	PPS358			
1.8 Turbo	10.96 → 12.00	Eng. AEB/ANB/APU, CH 3B-VP-113283  →, CH 3B-VE-116999  →	ZF	PPS380			
1.8 Turbo	10.96 → 12.00	Eng. AEB/ANB/APU	KAYABA	PPS1036			
1.8 Turbo	02.01 →	Eng. AWM/AWT	ZF	PPS380			
1.8 Turbo	02.01 →	Eng. AWM/AWT	KAYABA	PPS1036			
1.9 4-motion / TD Syncro	08.99 → 11.00	Eng. AJM/ATJ/AFN/AVG, CH →  3B-W-340000	ZF	PPS380			
1.9 4-motion / TD Syncro	08.99 → 11.00	Eng. AJM/ATJ/AFN/AVG, CH 3B-W-340001  →	ZF	PPS360			
1.9 4-motion / TD Syncro	08.99 → 11.00	Eng. AJM/ATJ/AFN/AVG	KAYABA	PPS1036			
1.9 4-motion / TD Syncro	08.99 → 11.00	Eng. AJM/ATJ/AFN/AVG	KAYABA	PPS071	132	6	
1.9 TD	10.96 → 11.00	Eng. AFN/AVG/AHU/AHH, CH →  3B-W-700000	ZF	PPS380			
1.9 TD	10.96 → 11.00	Eng. AFN/AVG/AHU/AHH, CH 3B-W-700001  →	ZF	PPS360			
1.9 TD	10.96 → 11.00	Eng. AFN/AVG/AHU/AHH	KAYABA	PPS1036			
1.9 TD	10.96 → 11.00	Eng. AFN/AVG/AHU/AHH	KAYABA	PPS071	132	6	
1.9 TD	08.98 → 11.00	Eng. AJM/ATJ	ZF	PPS360			
1.9 TD	08.98 → 11.00	Eng. AJM/ATJ	KAYABA	PPS071	132	6	
1.9 TD	02.00 →	Eng. AVB/AVF/AWX	ZF	PPS360			
1.9 TD	02.00 →	Eng. AVB/AVF/AWX	KAYABA	PPS071	132	6	
1.9 TD 4-motion	11.00 →	Eng. AVF/AWX	ZF	PPS360			
1.9 TD 4-motion	11.00 →	Eng. AVF/AWX	KAYABA	PPS071	132	6	
2.0	04.00 →		ZF	PPS380			
2.0	04.00 →		KAYABA	PPS1036			
2.0 4-motion	04.00 →		ZF	PPS380			
2.0 4-motion	04.00 →		KAYABA	PPS1036			
2.3 Syncro VR5	10.97 → 11.00		ZF	PPS380			
2.3 Syncro VR5	10.97 → 11.00		KAYABA	PPS1036			
2.3 V5/VR5	10.96 →		ZF	PPS380			
2.3 V5/VR5	10.96 →		KAYABA	PPS1036			
2.5 4-motion / TD Syncro	12.98 →		ZF	PPS012	120	6	
2.5 4-motion / TD Syncro	12.98 →		KAYABA	PPS1037	120	6	
2.5 TD	07.98 →		ZF	PPS012	120	6	
2.5 TD	07.98 →		KAYABA	PPS1037	120	6	





			FOR MANUFACTURER	PATRON		PORTS	REMARKS
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## VOLKSWAGEN

PASSAT (3B_)							
2.8 4-motion	09.99 →		ZF	PPS947			
2.8 Syncro	10.96 → 11.00	Eng. ACK/ALG, CH →  3B-V-175000	ZF	PPS309			
2.8 Syncro	10.96 → 11.00	Eng. ACK/ALG, CH 3B-V-175001  →	ZF	PPS947			
2.8 V6	05.97 → 11.00		ZF	PPS947			
4.0 W8 4-motion	09.01 →	Eng. BDN/BDP	ZF	PPS586			

POLO							
1.0 8V	10.94 → 09.01		SAGINAW	PPS955			
1.0 8V	10.94 → 09.01		ZF	PPS006			
1.0 8V	 10.94 → 09.01	×AC, Eng. AEV/AER/ALL/ALD	SAGINAW	PPS921	115	6	
1.0 8V	 08.96 → 09.01	AC, Eng. AER/ALL/ALD	ZF	PPS943			
1.3 8V	 10.94 → 07.95	×AC, Eng. ADX	ZF	PPS006			
1.3 8V	 10.94 → 07.95	AC, Eng. ADX	ZF	PPS943			
1.4 8V	 07.95 → 09.01	×AC, Eng. AEX/AKK/AKP/AUD	ZF	PPS006			
1.4 8V	 07.95 → 09.01	AC, Eng. AEX/AKK/AKP/AUD	ZF	PPS943			
1.4 8V	 12.95 → 09.01	Eng. AEX/AKV/AKK	ZF	PPS282	120	5	
1.4 8V	 05.97 → 09.01	×AC, Eng. AEX/AKV	ZF	PPS282	120	5	
1.4 8V	 05.97 → 09.01	AC, Eng. AEX/AKV	SAGINAW/ZF	PPS002	98	1	
1.4 16V	 04.96 →	×AC, Eng. AFH/AFK/AHW/ AUA/AUB/BBY	ZF	PPS006			
1.4 16V	 04.96 →	AC, Eng. AFH/AFK/AHW/ AUA/AUB/BBY	ZF	PPS943			
1.4 TD	10.99 →		HOBOURN/ SAGINAW	PPS920	120	5	
1.4 TD	 10.99 →	Eng. AMF	ZF	PPS282	120	5	
1.6 8V	 09.94 → 10.99	×AC, Eng. AEA/AEE	ZF	PPS006			
1.6 8V	 09.94 → 10.99	AC, Eng. AEA/AEE	ZF	PPS943			
1.6 8V	 12.95 → 09.01	Eng. 1F/AEE/AFT	SAGINAW/ZF	PPS002	98	1	
1.6 8V	 05.97 → 09.01	Eng. AFT	SAGINAW/ZF	PPS002	98	1	
1.6 8V	 05.97 → 09.01	×AC, Eng. AEE	ZF	PPS282	120	5	
1.6 8V	 05.97 → 09.01	AC, Eng. AEE	SAGINAW/ZF	PPS002	98	1	
1.6 16V	 09.94 → 09.01	×AC, Eng. AJV/ARC	ZF	PPS006			
1.6 16V	 09.98 → 10.99	AC, Eng. AJV/ARC	ZF	PPS943			
1.7 D	06.97 → 09.01		HOBOURN/ SAGINAW	PPS920	120	5	
1.7 D	 06.97 → 09.01	Eng. AHG	ZF	PPS282	120	5	
1.7 D	 07.97 → 09.01	Eng. AKW	SAGINAW/ZF	PPS002	98	1	
1.7 D	 08.97 → 09.01	Eng. AKW	SAGINAW/ZF	PPS002	98	1	
1.9 D	10.94 →		HOBOURN/ SAGINAW	PPS920	120	5	
1.9 D	 10.94 →	Eng. AEF/AGD/ASY	ZF	PPS282	120	5	
1.9 D	 12.95 → 09.01	Eng. AEY	SAGINAW/ZF	PPS002	98	1	
1.9 D	 06.97 → 09.01	Eng. AEY	SAGINAW/ZF	PPS002	98	1	
1.9 TD	 09.96 → 09.01	Eng. AFN/ASV/ALE/AHU/ALH	SAGINAW/ZF	PPS002	98	1	
1.9 TD	 05.97 → 09.01	Eng. ALE/AHU/AFN	SAGINAW/ZF	PPS002	98	1	
2.0	 08.99 → 09.01	Eng. ADC	SAGINAW/ZF	PPS002	98	1	

POLO KASTEN (6NF)							
1.4	05.98 →	×AC	ZF	PPS006			
1.4	05.98 →	AC	ZF	PPS943			
1.7 D	08.97 →		ZF	PPS282	120	5	
1.7 D	08.97 →		HOBOURN/ SAGINAW	PPS920	120	5	
1.9 D	10.94 →		ZF	PPS282	120	5	
1.9 D	10.94 →		HOBOURN/ SAGINAW	PPS920	120	5	

			<b>FOR MANUFACTURER</b>	<b>PATRON</b>	 mm	<b>PORTS</b>	<b>REMARKS</b>
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## VOLKSWAGEN

### SANTANA

2.0	08.82 → 03.85		ZF	PPS305	130	1		
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### SCIROCCO

1.6	01.83 → 07.90	Eng. EW/RE	SAGINAW/ZF	PPS022	98	1		
1.8 8V	08.82 → 07.92	Eng. DX/EV/EX/JH/PB	SAGINAW/ZF	PPS022	98	1		
1.8 16V	10.85 → 07.92	Eng. KR/PL	SAGINAW/ZF	PPS022	98	1		

### SHARAN

1.9 TD	08.95 →	CH →  7M-Y-010001	ZF	PPS004	104	1		90/110 bar
1.9 TD	11.02 →		KAYABA	PPS663	120	6		130 bar, L = 108 mm
1.9 TD	11.02 →		KAYABA	PPS686	120	6		130 bar, L = 98 mm
2.0	08.95 →	CH →  7M-V-011172	ZF	PPS931	112	6		
2.0	08.95 →	CH 7M-V-011173  → 7M-Y-012000	ZF	PPS004	104	1		
2.8 VR6 12V Incl. Syncro	08.95 → 08.96	CH →  7M-V-020000	ZF	PPS461				
2.8 VR6 12V Incl. Syncro	09.96 → 05.00	CH 7M-V-020001  →	ZF	PPS460				

### T3





1.9	02.85 → 07.92		ZF	PPS1038				
2.1	08.85 → 07.92		ZF	PPS1038				

### T4

1.9 D	09.90 →	CH →  70-T-199000	ZF	PPS009	113	1		
1.9 D	09.90 →	CH 70-T-200001  →	ZF	PPS287	112	1		
1.9 D	09.90 →		KAYABA	PPS060				Pump-Al
1.9 TD	10.92 →	CH →  70-T-199000	ZF	PPS009	113	1		
1.9 TD	10.92 →	CH 70-T-200001  →	ZF	PPS287	112	1		
1.9 TD	10.92 →		KAYABA	PPS060				Pump-Al
2.0	09.90 →	CH →  70-T-199000	ZF	PPS009	113	1		
2.0	09.90 →	CH 70-T-200001  →	ZF	PPS287	112	1		
2.0	09.90 →		KAYABA	PPS060				Pump-Al
2.4 D	09.90 →	CH →  70-T-199000	ZF	PPS009	113	1		
2.4 D	09.90 →	CH 70-T-200001  →	ZF	PPS060	152	6		
2.4 D	09.90 →		KAYABA	PPS060				Pump-Al
2.5	11.90 →		KAYABA	PPS060				Pump-Al
2.5 Incl. Diesel & Turbo	11.90 →	CH →  70-T-199000	ZF	PPS009	113	1		
2.5 Incl. Diesel & Turbo	11.90 →	CH 70-T-200001  →	ZF	PPS060	152	6		
2.5 Incl. Diesel & Turbo	11.90 →		KAYABA	PPS060				Pump-Al
2.8	11.95 →		ZF	PPS287	112	1		
2.8	11.95 →		KAYABA	PPS060				Pump-Al


### VENTO (1H2)

1.4	11.91 → 09.98		ZF	PPS282	120	5		
1.6	09.92 → 09.98	Eng. ABU/AEA/AEE	ZF	PPS282	120	5		
1.6	10.94 → 09.98	Eng. AEK/AFT, CH →  1H-S-78185	SAGINAW/ZF	PPS003	98	1		
1.6	10.94 → 09.98	Eng. AEK/AFT, CH 1H-S-78186  →	SAGINAW/ZF	PPS002	98	1		
1.8	11.91 → 09.98	CH →  1H-S-78185	SAGINAW/ZF	PPS003	98	1		
1.8	11.91 → 09.98	CH 1H-S-78186  →	SAGINAW/ZF	PPS002	98	1		
1.9 D	11.91 → 09.98	Eng. 1Y, CH →  1H-S-78185	SAGINAW/ZF	PPS003	98	1		
1.9 D	11.91 → 09.98	Eng. 1Y, CH 1H-S-78186  →	SAGINAW/ZF	PPS002	98	1		
1.9 SDI	04.97 → 09.98	Eng. AEY	SAGINAW/ZF	PPS002	98	1		
1.9 TD	11.91 → 09.98	Eng. AAZ, CH →  1H-S-78185	SAGINAW/ZF	PPS003	98	1		
1.9 TD	11.91 → 09.98	Eng. AAZ, CH 1H-S-78186  →	SAGINAW/ZF	PPS002	98	1		
1.9 TDI/TD	04.96 → 09.98	Eng. AFN	SAGINAW/ZF	PPS002	98	1		
1.9 TDI/TD	09.93 → 09.98	Eng. 1Z/AHU, CH →  1H-S-78185	SAGINAW/ZF	PPS003	98	1		

			FOR MANUFACTURER	PATRON		PORTS	REMARKS
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## VOLKSWAGEN

VENTO (1H2)							
1.9 TDI/TD	09.93 → 09.98	Eng. 1Z/AHU, CH 1H-S-78186  →	SAGINAW/ZF	PPS002	98	1	
2.0	11.91 → 09.98	CH →  1H-S-78185	SAGINAW/ZF	PPS003	98	1	
2.0	11.91 → 09.98	CH 1H-S-78186  →	SAGINAW/ZF	PPS002	98	1	
2.8 VR6	01.92 → 09.98	CH →  1H-S-78185	ZF	PPS501			
2.8 VR6	01.92 → 09.98	CH 1H-S-78186  →	ZF	PPS282	120	5	

			FOR MANUFACTURER	PATRON		PORTS	REMARKS
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## VOLVO

200-SERIE							
2.0	01.84 → 01.91		SAGINAW	PPS396	155	1	
2.0	01.91 → 08.93		SAGINAW	PPS052	150	1	
2.3	01.84 → 01.91		SAGINAW	PPS396	155	1	
2.3	01.91 → 08.93		SAGINAW	PPS052	150	1	
2.7 / 2.8	1985 → 1987		SAGINAW	PPS579	150	1	





300-SERIE							
2.0	09.82 → 12.91		SAGINAW	PPS322	150	1	

400-SERIE							
1.6 / 1.7 / 1.8	05.87 → 08.94		SAGINAW	PPS189	130	6	
1.6 / 1.7 / 1.8	08.94 → 10.96		SAGINAW	PPS284	130	6	
1.9 TD	06.94 → 10.96		SAGINAW	PPS329	130	6	

700-SERIE							
2.0 / 2.3	07.82 → 10.91		SAGINAW	PPS052	150	1	
2.0 / 2.3	07.82 → 10.91		SAGINAW	PPS617	152	2	
2.0 / 2.3	07.82 → 10.91		ZF	PPS207	150	1	Pump-AI
2.4 TD	01.87 → 12.93		SAGINAW	PPS043	130	1	
2.8	08.84 → 09.90		SAGINAW	PPS288	155	1	

850							
2.0 10V/20V	06.92 → 12.96		SAGINAW	PPS065	141	6	
2.3 Turbo	06.92 → 12.96		SAGINAW	PPS065	141	6	
2.5 10V/20V × Turbo	06.92 → 12.96		SAGINAW	PPS065	141	6	
2.5 TD	10.95 → 12.96		SAGINAW	PPS255	130	6	

900-SERIE							
2.0 × Turbo	09.90 → 08.94		SAGINAW	PPS043	130	1	
2.0 Turbo	04.91 → 08.94		SAGINAW	PPS052	150	1	
2.3 × Turbo	09.90 → 02.95		SAGINAW	PPS043	130	1	
2.3 Turbo	09.90 → 11.97		SAGINAW	PPS052	150	1	
2.4 TD	09.90 → 01.97		SAGINAW	PPS043	130	1	
2.5	08.94 → 01.97		SAGINAW	PPS041	142	6	
2.5	08.94 → 01.97		SAGINAW	PPS615	130	6	
3.0	09.90 → 1991		SAGINAW	PPS288	155	1	







			FOR MANUFACTURER	PATRON	 mm	PORTS	REMARKS
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## VOLVO

### 900-SERIE

3.0	1991 → 01.97		SAGINAW	PPS041	142	6		
3.0	1991 → 01.97		SAGINAW	PPS615	130	6		

### C70

2.0		03.97 → 09.02	CH 8500  →	ZF	PPS074	130	6	
2.0		03.98 →	CH 1100  →	ZF	PPS074	130	6	
2.3		03.97 → 09.02	CH 8500  →	ZF	PPS074	130	6	
2.3		03.98 →	CH 1100  →	ZF	PPS074	130	6	
2.5		03.97 → 09.02	CH 8500  →	ZF	PPS074	130	6	
2.5		03.98 →	CH 1100  →	ZF	PPS074	130	6	

### S40/V40

1.6	04.97 →		SAGINAW	PPS044	140	6		
1.8 ×GDI	03.96 →		SAGINAW	PPS044	140	6		
1.8 GDI	04.99 →		ZF	PPS618	142	6		
1.9 16V	06.97 → 05.00		SAGINAW	PPS044	140	6		
1.9 TD	12.96 →	×AC	SAGINAW	PPS556				
1.9 TD	12.96 →	AC	SAGINAW	PPS204	109	6		
2.0 16V	03.96 →		SAGINAW	PPS044	140	6		
2.0 Turbo	10.97 →		SAGINAW	PPS044	140	6		
2.0 Turbo	10.97 →		ZF	PPS618	142	6		

### S70

2.0	01.97 → 11.00	CH 565000  →	ZF	PPS074	130	6		
2.3	01.97 → 11.00	CH 565000  →	ZF	PPS074	130	6		
2.4	01.97 → 11.00	CH 565000  →	ZF	PPS074	130	6		
2.5	06.98 → 11.00	CH 565000  →	ZF	PPS074	130	6		
2.5 TD	12.96 → 04.01		SAGINAW	PPS255	130	6		

### S80

2.0 20V	06.98 →	CH →  29668	ZF	PPS074	130	6		
2.0 20V	06.98 →	CH 29669  → 44278	ZF	PPS966	130	6		
2.0 20V	06.98 →	CH 44279  →	ZF	PPS1039	130	6		
2.4 20V	01.99 →		ZF	PPS073	142	6		
2.5 TD	09.98 →	CH 116812  →	ZF	PPS966	130	6		
2.8 24V	05.98 →	CH →  29668	ZF	PPS074	130	6		
2.8 24V	05.98 →	CH 29669  → 44278	ZF	PPS966	130	6		
2.8 24V	05.98 →	CH 44279  →	ZF	PPS1039	130	6		
2.9 24V	05.98 →	CH →  29668	ZF	PPS074	130	6		
2.9 24V	05.98 →	CH 29669  → 44278	ZF	PPS966	130	6		
2.9 24V	05.98 →	CH 44279  →	ZF	PPS1039	130	6		

### V70

2.0	01.97 → 03.00	CH 540000  →	ZF	PPS074	130	6		
2.0	07.01 →		ZF	PPS1039	130	6		
2.3	01.97 → 01.00	CH 540000  →	ZF	PPS074	130	6		
2.3	01.00 →		ZF	PPS966	130	6		
2.4	01.97 → 03.00		ZF	PPS074	130	6		
2.4	09.01 →		ZF	PPS073	142	6		
2.5	01.97 → 03.00	CH 540000  →	ZF	PPS074	130	6		
2.5	09.02 →		ZF	PPS073	142	6		
2.5 TD	12.96 → 04.01		SAGINAW	PPS255	130	6		

**CROSS REFERENCES LIST**

**ТАБЛИЦЫ ВЗАИМОЗАМЕНЯЕМОСТИ**

# CROSS REFERENCES LIST

ALFA ROMEO	
26064414	PPS650
46413329	PPS477
46473842	PPS999
46473843	PPS007
46534757	PPS007
46763561	PPS1028
604587318	PPS476
60524943	PPS480
60531766	PPS478
60533802	PPS479
60561557	PPS474
60562019	PPS477
60577398	PPS476
60587317	PPS475
60593248	PPS497
60596742	PPS584
60618477	PPS007
60813339	PPS361
7764220	PPS583

BMW	
2106384	PPS635
32411091911	PPS635
32411091912	PPS633
32411092015	PPS635
32411092016	PPS633
32411092086	PPS489
32411092432	PPS059
32411092433	PPS970
32411092433	PPS059
32411092603	PPS494
32411092604	PPS494
32411092741	PPS017
32411092742	PPS017
32411092744	PPS364
32411092817	PPS980
32411092898	PPS495
32411092954	PPS970
32411092954	PPS059
32411093124	PPS364
32411093577	PPS614
32411093580	PPS489
32411094089	PPS980
32411094964	PPS062
32411094965	PPS1027
32411095155	PPS537
32411097149	PPS971
324111199	PPS498
32411123356	PPS578
32411123476	PPS578
32411126845	PPS336
32411127046	PPS336
32411128040	PPS336
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32411130556	PPS289
32411131239	PPS977
32411131239	PPS289

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32411132254	PPS263
32411132277	PPS369
32411132567	PPS512
32411132726	PPS369
32411132830	PPS391
32411132842	PPS357
32411132934	PPS391
32411132935	PPS357
32411132956	PPS539
32411132987	PPS664
32411133065	PPS263
32411133078	PPS969
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32411133158	PPS320
32411133386	PPS320
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32411137457	PPS263
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32411137951	PPS620
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32411140420	PPS269
32411140458	PPS269
32411140831	PPS620
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32411141036	PPS269
32411141037	PPS269

BMW	
32411141039	PPS008
32411141040	PPS008
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32411141209	PPS591
32411141239	PPS969
32411141239	PPS978
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32411141516	PPS008
32411141569	PPS968
32411141627	PPS018
32411141629	PPS018
32411141681	PPS008
32411141937	PPS489
32412227196	PPS953
32412227197	PPS953
32412245855	PPS018
32412294403	PPS591
32412294479	PPS591
3241675011	PPS670
32416750423	PPS014
32416756611	PPS667
32416758595	PPS667
32419057379	PPS336

CHRYSLER	
04684156	PPS974

CITROËN	
26045330	PPS054
26050704	PPS389

CITROËN	
26054760	PPS318
26071206	PPS315
26071208	PPS517
26075747	PPS283
26078691	PPS368
26082229	PPS668
4007.03	PPS037
4007.57	PPS936
4007.90	PPS451

DAEWOO	
26071637	PPS519
540415	PPS1023
96215322	PPS662
96225377	PPS659

DAIHATSU	
U312-01013	PPS420

FIAT	
1461315080	PPS372
1477396080	PPS658
46401703	PPS265
46401704	PPS469
46406957	PPS324
46407976	PPS374
46408075	PPS338
46410955	PPS324
46410956	PPS265
46413324	PPS469
46413326	PPS374
46413332	PPS338
46416001	PPS379
46436958	PPS912
46438817	PPS239
46442644	PPS373
46459346	PPS916
46460675	PPS239
46473841	PPS912
46475018	PPS912
46478840	PPS373
46524141	PPS912
46541004	PPS338
46763559	PPS912
4808780	PPS036
4817645	PPS262
55186442	PPS338
55186710	PPS1048
5992422	PPS321
60577460	PPS919
6144978	PPS266
7552629	PPS468
7604215	PPS919
7617059	PPS253
7658069	PPS540
7703175	PPS324
7707425	PPS265
77465850	PPS496

# CROSS REFERENCES LIST

FORD		FORD		HONDA		MAZDA	
1114344	PPS1022	F4RC3A674GD	PPS203	56110-PE0-040	PPS449	G211-32-600A	PPS251
1357620	PPS261	F4ZZ3A674A	PPS279	56110-PE0-050	PPS449	GA2A32650D	PPS294
1357620	PPS557	F5RC3A674CB	PPS046	56110-PG6-010	PPS447	<b>MERCEDES</b>	
1954619	PPS353	F5RC3A674DC	PPS933	56110-PH1-020	PPS450	0024661001	PPS918
1958453	PPS208	F5RC3A674FA	PPS224	56110-PH1-040	PPS450	0024662201	PPS918
1C153A674AE	PPS077	F5RC3A674GA	PPS355	56110-PH7-000	PPS446	0024662501	PPS031
256C3A696DB	PPS672	F5RC3A674HA	PPS463	56110-PH7-020	PPS446	0024662501	PPS1042
3907535	PPS261	F6RC3A674BB	PPS932	56110-PH7-030	PPS446	0024662701	PPS031
3907535	PPS557	F6RC3A674DC	PPS462	56110-PH7-040	PPS446	0024662801	PPS526
4048773	PPS261	F6RC3A674EA	PPS245	56110-PM3-010	PPS1000	0024662901	PPS437
4048773	PPS557	F77Z3A674EA	PPS465	56110-PM3-020	PPS1000	0024663001	PPS437
7D0422155DES	PPS686	F7RC3A674BC	PPS261	56110-PM3-030	PPS1000	0024664801	PPS1043
83BB3A674CA	PPS247	F7RC3A674BC	PPS557	56110-PO2-020	PPS278	0024664901	PPS685
85BB3A674AA	PPS195	F7RC3A674FA	PPS194	56110-POA-013	PPS1005	0024668801	PPS038
86GB3A674AA	PPS566	HBDHo	PPS1041	56110-PT0-050	PPS1001	1024600180	PPS435
86GB3A674EA	PPS187	HDBHp	PPS683	56110-PT0-350	PPS1001	1104602180	PPS435
87GB3A674AB	PPS195	RMXS6J3A674F	PPS261	56110-PT0-J60	PPS1001	1154602080	PPS346
88VB3A674AA	PPS929	RMXS6J3A674F	PPS557	56110-PT0-J61	PPS1001	1164601780	PPS346
88VB3A674BC	PPS299	XS6C3A674FA	PPS261	56110-PY3-030	PPS466	1164602080	PPS346
89VB3A674AA	PPS298	XS6C3A674FA	PPS557	<b>HYUNDAI</b>		1164602480	PPS346
90VB3A674AC	PPS304	XS712A696AA	PPS1022	57110-22002	PPS362	1164602580	PPS435
90VB3A674CB	PPS351	XS713A674BE	PPS076	<b>JAGUAR</b>		1164602680	PPS346
90VB3A674DA	PPS218	<b>GM</b>		MJA8111BE	PPS562	1164602780	PPS435
91AB3A674AA	PPS045	26008257	PPS182	MJA8111BH	PPS1021	1244600280	PPS992
91AB3A674BA	PPS191	26046426	PPS323	<b>KIA</b>		1244600280	PPS552
91AB3A674CA	PPS301	5948195	PPS254	OK02232680	PPS661	1244600680	PPS992
91GB3A674AB	PPS459	90169158	PPS482	<b>LANCIA</b>		1244600980	PPS996
92AB3A674AA	PPS356	90295552	PPS026	46413323	PPS246	1244601180	PPS544
92AB3A674AB	PPS192	90350605	PPS026	7617059	PPS442	1244601580	PPS975
92BB3A674AA	PPS259	90352753	PPS182	<b>LAND ROVER</b>		1244601680	PPS987
92GB3A674BA	PPS930	90392650	PPS028	2245243	PPS488	1244601780	PPS992
92GB3A674CB	PPS244	90392912	PPS026	ANR2157	PPS188	1244601780	PPS552
92VB3A674AA	PPS452	90409239	PPS027	ERR4066	PPS580	1244601880	PPS544
93BB3A674CB	PPS179	90410957	PPS325	ERR4462	PPS594	1244602380	PPS996
94GB3A674AA	PPS911	90466998	PPS030	ERR4622	PPS580	1244602380	PPS547
95AB3A674AB	PPS045	90466999	PPS029	ERR4727	PPS594	1244660980	PPS547
95AB3A674BA	PPS191	90467000	PPS281	ERR5407	PPS594	1264600080	PPS346
95AB3A674CA	PPS301	90468138	PPS270	QVB101050	PPS653	1264600180	PPS435
95GB3A674AA	PPS260	90469057	PPS027	QVB101070	PPS653	1264600280	PPS346
95GB3A674AC	PPS047	90469202	PPS205	QVB101090	PPS594	1264600380	PPS435
95VW3A674AD	PPS931	90469202	PPS214	QVB101110	PPS580	1264600780	PPS346
95VW3A674AE	PPS931	90495029	PPS325	<b>LDV</b>		1264600880	PPS435
95VW3A674DA	PPS004	90495957	PPS023	26048736	PPS1047	1264600980	PPS547
95VW3A674DC	PPS004	90501830	PPS023	4007.57	PPS193	1264603580	PPS628
95VW3A674DD	PPS004	90502551	PPS254	7847017	PPS193	1294600680	PPS991
95VW3A674EA	PPS460	90531706	PPS401	CER3059	PPS626	1294601880	PPS636
95VW3A674EB	PPS460	90540019	PPS397	<b>MAZDA</b>		1294601980	PPS636
97BG3A674AA	PPS202	90543246	PPS311	25154308	PPS294	1294661601	PPS604
97VB3A674FA	PPS663	90573227	PPS281	B093-32-600C	PPS348	1294662301	PPS603
99VW3A674AA	PPS663	90573619	PPS554	B457-32-600C	PPS440	1294662501	PPS548
F2RC3A674AB	PPS199	91153771	PPS400	G037-326-600B	PPS574	1404600480	PPS600
F33CA674BA	PPS185	9129098	PPS023			1404600480	PPS631
F3ZZ3A674D	PPS352	948077	PPS311				
F43C3D639AA	PPS483	948078	PPS554				
F43C3K770AA	PPS914	97129593	PPS399				
F4RC3A674AD	PPS280						
F4RC3A674BD	PPS300						
F4RC3A674EC	PPS464						



# CROSS REFERENCES LIST

MERCEDES		MERCEDES		NISSAN		RENAULT	
1404600480	PPS632	2104661501	PPS993	4911076J00	PPS271	26088276	PPS673
1404600580	PPS600	2104661501	PPS546	491109F600	PPS642	26090956	PPS1009
1404600580	PPS631	2104661501	PPS551			460460475	PPS239
1404600580	PPS632	2104661901	PPS382	OPEL		6006003645	PPS622
1404600680	PPS634	2104662001	PPS595	26029798	PPS960	7700840105	PPS681
1404600680	PPS994	2104662101	PPS546	82000024738	PPS687	7700840107	PPS958
1404600780	PPS634	2104662201	PPS596	90473168	PPS960	7700840805	PPS681
1404600780	PPS994	2104662601	PPS382	905773827	PPS398	8200024738	PPS655
1404660201	PPS601	2104662701	PPS546	PEUGEOT		8200024738	PPS674
1404661901	PPS939	246603101	PPS637	26086355	PPS386	8200024778	PPS655
1404662001	PPS939	24660901	PPS597	4007A6	PPS056	8200024778	PPS674
1404662101	PPS499	24660901	PPS989	96311411680	PPS386	8200054528	PPS673
1404662201	PPS499	24661001	PPS619	9631411580	PPS053	9140244	PPS553
1404663401	PPS602	24661201	PPS035	9638364580	PPS386	ROVER	
1404663501	PPS602	24661901	PPS629			34517092130	PPS230
1404664201	PPS602	24662101	PPS597	PORSCHE		QVB10003	PPS332
1404664501	PPS602	24662101	PPS989	928.347.089.00	PPS568	QVB10007	PPS215
1404665001	PPS939	24662201	PPS619	928.347.089.01	PPS568	QVB10012	PPS250
1404665101	PPS939	24662301	PPS040	944.347.432.00	PPS567	QVB10013	PPS242
1404665201	PPS499	24662401	PPS1025	944.347.432.03	PPS567	QVB10014	PPS196
1404665301	PPS499	24662401	PPS035	944.347.432.08	PPS567	QVB10015	PPS570
1404666001	PPS599	24662901	PPS988			QVB10016	PPS419
1684660101	PPS950	24663001	PPS988	PSA		QVB10017	PPS276
1684660301	PPS950	24663801	PPS035	26017500	PPS423	QVB10018	PPS206
1684660401	PPS950	24664801	PPS976	26045330	PPS054	QVB10025	PPS198
2014600580	PPS363	24667501	PPS039	26050703	PPS388	QVB10031	PPS231
2014600980	PPS363	24669001	PPS066	26050704	PPS389	QVB10037	PPS228
2014601180	PPS979	4604080	PPS997	26054760	PPS318	QVB10042	PPS230
2014601180	PPS258	4604660001	PPS598	26071206	PPS315	QVB100550	PPS275
2014601280	PPS979	4604660101	PPS598	26071208	PPS517	QVB100600	PPS183
2014601280	PPS258	541020210	PPS1044	26075747	PPS283	QVB100610	PPS201
2014601480	PPS363	7692955511	PPS042	26078691	PPS368	QVB100640	PPS235
2014601580	PPS363	9014660301	PPS436	26079836	PPS1011	QVB100650	PPS335
2014601780	PPS983	MITSUBISHI		26079836	PPS1016	QVB100670	PPS186
2014601780	PPS524	MB553463	PPS433	4003.91	PPS425	QVB100680	PPS236
2014601880	PPS524	MB553511	PPS434	4007.03	PPS037	QVB100680E	PPS236
2014602180	PPS545	MR297492	PPS456	4007.57	PPS936	QVB100690	PPS184
2014602480	PPS545	MR297493	PPS456	4007.61	PPS024	QVB100780	PPS421
2014603380	PPS525			4007.66	PPS217	QVB100830	PPS334
2104660001	PPS995	NISSAN		4007.90	PPS451	QVB100840	PPS333
2104660101	PPS995	4911001E01	PPS267	7847017	PPS625	QVB100850	PPS331
2104660201	PPS549	4911004R11	PPS427	9610519980	PPS219	QVB100900	PPS216
210466020180	PPS549	491101C700	PPS295	9632334880	PPS965	QVB100910	PPS221
2104660301	PPS549	491102F600	PPS285	RENAULT		QVB101050	PPS952
210466030180	PPS549	4911032R00	PPS243	26002593	PPS257	QVB101210	PPS337
2104660501	PPS595	4911035F00	PPS342	26010400	PPS213	QVB101421	PPS665
2104660801	PPS550	4911043L60	PPS430	26014539	PPS286	QVB101581	PPS1007
2104660901	PPS550	4911043P00	PPS431	26018507	PPS240	SAAB	
2104661001	PPS596	4911052Y00	PPS264	26025249	PPS220	4106704	PPS330
2104661001	PPS998	4911054A00	PPS509	26044897	PPS317	4106712	PPS416
2104661101	PPS596	4911055M00	PPS511	26046187	PPS376	4400370	PPS290
2104661201	PPS990	4911059Y00	PPS985	26069257	PPS240	440038	PPS290
2104661201	PPS382	4911065F00	PPS454	26077781	PPS1008	4647376	PPS486
2104661301	PPS990	4911070J00	PPS222	26077782	PPS067	4647392	PPS1035
2104661301	PPS382	4911070N00	PPS271	26081335	PPS655	4647418	PPS576
2104661401	PPS993	4911072B00	PPS387	26081335	PPS674	4647426	PPS233
2104661401	PPS546	4911074N00	PPS506				
2104661401	PPS551						

# CROSS REFERENCES LIST

SAAB	
4647442	PPS330
4647491	PPS290
7691974146	PPS1033

SUBARU	
31052-GA042	PPS413
70-05004	PPS913

SUZUKI	
49100-60A00	PPS248
49110-60B11	PPS505

TOYOTA	
15XF06747	PPS646
44310-05010	PPS211
44310-05020	PPS507
44310-05040	PPS534
44310-05050	PPS518
44320-20121	PPS252
4432020201	PPS327
44320-20271	PPS393
44320-20310	PPS393
44320-20410	PPS210
44320-20471	PPS922
44320-32071	PPS408
44320-33060	PPS394
44320-35470	PPS384
U05-32100	PPS644

VAG	
026145155A	PPS473
026145155B	PPS011
026145155BX	PPS011
026145155D	PPS473
026145155E	PPS473
026145155EX	PPS473
026145155G	PPS937
027145157	PPS022
028145157B	PPS002
028145157D	PPS002
028145157DX	PPS002
028145157F	PPS287
028145157FX	PPS287
030145157D	PPS006
030145157D	PPS955
032145157A	PPS943
032145157AX	PPS943
034145155	PPS190
034145155C	PPS190
034145155G	PPS190
034145159J	PPS011
034145159L	PPS946
037145157C	PPS003
037145157D	PPS003
037145157DX	PPS003
037145157G	PPS003
038145157	PPS001
044145157A	PPS009

VAG	
044145157AX	PPS009
048145155B	PPS010
048145155C	PPS010
048145155F	PPS010
048145155F	PPS982
048145155FX	PPS010
049145155	PPS305
050145155A	PPS291
050145155AX	PPS291
050145155B	PPS946
050145155C	PPS493
050145155CX	PPS493
054145165A	PPS212
054145165B	PPS938
054145165D	PPS592
054145165G	PPS938
054145165H	PPS212
054145165K	PPS212
054145165KX	PPS212
054145165L	PPS592
06A145157	PPS935
074145157C	PPS060
074145157CX	PPS060
077145155B	PPS588
077145155C	PPS588
077145155D	PPS588
1H0145157	PPS501
1H0422155A	PPS200
1H0422155B	PPS003
1H0422155D	PPS003
1H0422155E	PPS200
1H0422155E	PPS002
1J0422154	PPS001
1J0422154A	PPS001
1J0422154B	PPS1013
1J0422154C	PPS949
1J0422154D	PPS001
1J0422154E	PPS935
1J0422154H	PPS935
1J0422154HX	PPS935
1J0422154J	PPS001
1J0422154JX	PPS001
251422155	PPS1038
2D0422155	PPS068
30145157	PPS962
34145165	PPS608
357422155G	PPS022
4B0145155D	PPS013
4B0145155E	PPS020
4B0145155R	PPS020
4B0145155RX	PPS020
4B0145155T	PPS013
4B0145155TX	PPS013
4B0145156	PPS020
4B0145156A	PPS586
4B0145156X	PPS020
4D0145153	PPS020
4D0145155F	PPS472

VAG	
4D0145155H	PPS472
4D0145165J	PPS587
4D0145165K	PPS587
4D0145165L	PPS587
62145165	PPS680
6K0422154	PPS002
6K0422154X	PPS002
6N0145157	PPS282
6N0145157X	PPS282
6N0422154A	PPS920
701422155B	PPS009
701422155E	PPS287
701422155F	PPS060
75145155	PPS383
7D0422155	PPS060
7D0422155DES	PPS686
8D0145145L	PPS380
8D0145155M	PPS358
8D0145155Q	PPS380
8D0145156	PPS309
8D0145156A	PPS358
8D0145156F	PPS947
8D0145156FX	PPS947
8D0145156K	PPS380
8D0145156KX	PPS380
8D0145156L	PPS380
8D0145156M	PPS309
8D0145156N	PPS585
8D0145156T	PPS360
8D0145156TX	PPS360
8D0145156X	PPS309
8D0145177D	PPS012
8E0145153	PPS071
8G0145155AX	PPS493
8G0145165X	PPS212

VOLVO	
1273950	PPS579
1359649	PPS043
1373973	PPS579
1387249	PPS288
1387286	PPS207
1387724	PPS288
3470031	PPS329
3470284	PPS284
3524419	PPS618
3546907	PPS065
413725	PPS189
6819751	PPS041
7613955119	PPS1039
8603043	PPS052
8649636	PPS073
8649637	PPS966
9125202	PPS044
9140195	PPS255
9157037	PPS074
9157904	PPS615
9485904	PPS074

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DA SILVA		DA SILVA		DA SILVA		DA SILVA	
DP0003	PPS919	DP0252	PPS301	DP0386	PPS186	DP0569	PPS030
DP0003	PPS480	DP0254	PPS933	DP0386	PPS198	DP0571	PPS386
DP0008	PPS324	DP0262	PPS203	DP0386	PPS236	DP0601	PPS360
DP0012	PPS478	DP0263	PPS464	DP0392	PPS231	DP0602	PPS931
DP0013	PPS935	DP0265	PPS463	DP0397	PPS333	DP0604	PPS501
DP0013	PPS001	DP0266	PPS280	DP0402	PPS570	DP0605	PPS003
DP0015	PPS012	DP0269	PPS462	DP0403	PPS196	DP0607	PPS383
DP0016	PPS947	DP0270	PPS261	DP0403	PPS582	DP0609	PPS068
DP0021	PPS020	DP0272	PPS245	DP0405	PPS010	DP0613	PPS1038
DP0022	PPS587	DP0273	PPS187	DP0405	PPS623	DP0614	PPS287
DP0024	PPS592	DP0273	PPS1047	DP0412	PPS665	DP0616	PPS060
DP0027	PPS608	DP0277	PPS195	DP0413	PPS215	DP0617	PPS033
DP0029	PPS938	DP0277	PPS244	DP0414	PPS437	DP0618	PPS181
DP0030	PPS588	DP0277	PPS259	DP0416	PPS216	DP0619	PPS207
DP0032	PPS305	DP0278	PPS370	DP0416	PPS221	DP0621	PPS065
DP0033	PPS011	DP0279	PPS455	DP0418	PPS332	DP0621	PPS074
DP0034	PPS291	DP0281	PPS931	DP0441	PPS225	DP0624	PPS041
DP0036	PPS946	DP0282	PPS247	DP0442	PPS404	DP0625	PPS284
DP0043	PPS473	DP0283	PPS474	DP0453	PPS361	DP0626	PPS372
DP0045	PPS190	DP0284	PPS179	DP0454	PPS037	DP0628	PPS044
DP0046	PPS535	DP0284	PPS202	DP0476	PPS219	DP0628	PPS618
DP0049	PPS522	DP0285	PPS914	DP0476	PPS915	DP0629	PPS022
DP0050	PPS517	DP0285	PPS483	DP0476	PPS451	DP0630	PPS270
DP0051	PPS477	DP0286	PPS006	DP0482	PPS318	DP0631	PPS255
DP0051	PPS999	DP0286	PPS955	DP0487	PPS219	DP0633	PPS204
DP0052	PPS324	DP0287	PPS932	DP0488	PPS517	DP0634	PPS556
DP0054	PPS476	DP0296	PPS299	DP0497	PPS024	DP0635	PPS013
DP0055	PPS583	DP0296	PPS304	DP0497	PPS381	DP0638	PPS966
DP0056	PPS475	DP0296	PPS929	DP0498	PPS053	DP0646	PPS010
DP0060	PPS361	DP0298	PPS194	DP0498	PPS1016	DP0646	PPS982
DP0061	PPS374	DP0298	PPS046	DP0499	PPS607	DP0648	PPS282
DP0062	PPS367	DP0299	PPS351	DP0507	PPS912	DP0648	PPS920
DP0063	PPS265	DP0304	PPS047	DP0508	PPS007	DP0648	PPS962
DP0064	PPS469	DP0304	PPS911	DP0510	PPS503	DP0651	PPS380
DP0065	PPS379	DP0306	PPS199	DP0511	PPS423	DP0653	PPS942
DP0072	PPS324	DP0307	PPS524	DP0512	PPS388	DP0655	PPS053
DP0076	PPS262	DP0309	PPS1047	DP0518	PPS388	DP0657	PPS309
DP0077	PPS338	DP0310	PPS300	DP0527	PPS205	DP0658	PPS358
DP0078	PPS239	DP0312	PPS004	DP0527	PPS214	DP0711	PPS936
DP0079	PPS373	DP0320	PPS076	DP0530	PPS325	DP0731	PPS591
DP0082	PPS324	DP0323	PPS297	DP0531	PPS028	DP0736	PPS008
DP0083	PPS584	DP0323	PPS458	DP0533	PPS482	DP0737	PPS059
DP0088	PPS471	DP0336	PPS050	DP0535	PPS002	DP0741	PPS269
DP0111	PPS950	DP0343	PPS441	DP0535	PPS001	DP0741	PPS018
DP0133	PPS956	DP0344	PPS440	DP0535	PPS949	DP0741	PPS953
DP0133	PPS067	DP0345	PPS348	DP0537	PPS323	DP0743	PPS320
DP0142	PPS481	DP0346	PPS439	DP0539	PPS400	DP0746	PPS620
DP0146	PPS491	DP0352	PPS438	DP0544	PPS223	DP0748	PPS008
DP0173	PPS577	DP0355	PPS928	DP0552	PPS023	DP0749	PPS357
DP0186	PPS611	DP0359	PPS420	DP0554	PPS652	DP0751	PPS1027
DP0194	PPS924	DP0362	PPS345	DP0555	PPS027	DP0752	PPS537
DP0195	PPS519	DP0366	PPS336	DP0556	PPS178	DP0755	PPS590
DP0235	PPS615	DP0367	PPS294	DP0557	PPS182	DP0764	PPS506
DP0236	PPS189	DP0367	PPS502	DP0558	PPS254	DP0766	PPS285
DP0245	PPS192	DP0369	PPS432	DP0563	PPS554	DP0767	PPS429
DP0247	PPS224	DP0374	PPS250	DP0564	PPS378	DP0773	PPS314
DP0248	PPS191	DP0377	PPS337	DP0564	PPS1011	DP0775	PPS243
DP0249	PPS045	DP0382	PPS201	DP0565	PPS026	DP0776	PPS426

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DA SILVA		DA SILVA		DELCoremy		DELCoremy	
DP0783	PPS509	DP0980	PPS411	DSP050	PPS473	DSP1157	PPS018
DP0784	PPS510	DP0981	PPS410	DSP052	PPS190	DSP1159	PPS189
DP0789	PPS454	DP0981	PPS505	DSP054	PPS1018	DSP1159	PPS329
DP0798	PPS017	DP0987	PPS007	DSP055	PPS037	DSP1160	PPS052
DP0803	PPS217	DP0994	PPS571	DSP057	PPS308	DSP1172	PPS060
DP0812	PPS635	DP1005	PPS534	DSP060	PPS324	DSP1180	PPS544
DP0813	PPS633	DP1007	PPS408	DSP067	PPS650	DSP119	PPS045
DP0822	PPS494	DP1008	PPS508	DSP068	PPS361	DSP120	PPS192
DP0822	PPS495	DP1010	PPS644	DSP074	PPS367	DSP1201	PPS382
DP0825	PPS289	DP1011	PPS210	DSP076	PPS265	DSP121	PPS224
DP0827	PPS430	DP1027	PPS573	DSP077	PPS469	DSP1210	PPS014
DP0828	PPS427	DP1049	PPS222	DSP078	PPS379	DSP1211	PPS014
DP0830	PPS912	DP1052	PPS384	DSP082	PPS496	DSP122	PPS191
DP0830	PPS916	DP1054	PPS973	DSP084	PPS336	DSP1221	PPS039
DP0834	PPS067	DP1065	PPS324	DSP085	PPS324	DSP1228	PPS655
DP0838	PPS286	DP1067	PPS525	DSP086	PPS919	DSP1229	PPS674
DP0840	PPS253	DP1074	PPS545	DSP088	PPS262	DSP123	PPS045
DP0840	PPS321	DP1080	PPS043	DSP089	PPS338	DSP125	PPS191
DP0845	PPS226	DP1081	PPS052	DSP0955	PPS324	DSP126	PPS301
DP0845	PPS240	DP1110	PPS219	DSP096	PPS474	DSP127	PPS356
DP0846	PPS213	DP1117	PPS060	DSP0980	PPS996	DSP128	PPS933
DP0846	PPS529	DP1118	PPS014	DSP0987	PPS497	DSP129	PPS467
DP0850	PPS944	DP1139	PPS185	DSP100	PPS471	DSP130	PPS355
DP0851	PPS945	DP1142	PPS479	DSP1007	PPS382	DSP131	PPS365
DP0852	PPS923			DSP101	PPS974	DSP132	PPS365
DP0855	PPS005			DSP1011	PPS040	DSP136	PPS203
DP0855	PPS241			DSP1017	PPS918	DSP137	PPS464
DP0859	PPS941			DSP1018	PPS629	DSP138	PPS300
DP0859	PPS530			DSP1021	PPS983	DSP139	PPS463
DP0860	PPS553			DSP1028	PPS950	DSP1391	PPS185
DP0861	PPS504			DSP1029	PPS950	DSP140	PPS280
DP0862	PPS317			DSP1031	PPS066	DSP141	PPS455
DP0862	PPS402			DSP1033	PPS038	DSP142	PPS462
DP0865	PPS605			DSP1041	PPS564	DSP145	PPS245
DP0870	PPS376			DSP1045	PPS507	DSP147	PPS954
DP0870	PPS1009			DSP1047	PPS394	DSP1480	PPS987
DP0871	PPS032			DSP1048	PPS252	DSP149	PPS195
DP0871	PPS940			DSP105	PPS681	DSP150	PPS370
DP0878	PPS220			DSP1050	PPS393	DSP153	PPS931
DP0878	PPS316			DSP1051	PPS393	DSP154	PPS247
DP0879	PPS452			DSP1052	PPS922	DSP156	PPS179
DP0883	PPS513			DSP1053	PPS922	DSP156	PPS202
DP0884	PPS622			DSP1055	PPS292	DSP157	PPS914
DP0891	PPS257			DSP1056	PPS292	DSP157D	PPS921
DP0902	PPS240			DSP1058	PPS481	DSP157D	PPS006
DP0903	PPS240			DSP1059	PPS392	DSP158	PPS932
DP0939	PPS290			DSP106	PPS467	DSP1580	PPS975
DP0940	PPS1035			DSP1060	PPS392	DSP159	PPS459
DP0941	PPS540			DSP111	PPS460	DSP160	PPS244
DP0943	PPS576			DSP110	PPS456	DSP161	PPS911
DP0948	PPS500			DSP112	PPS924	DSP162	PPS352
DP0949	PPS1033			DSP1121	PPS310	DSP163	PPS202
DP0952	PPS200			DSP1125	PPS565	DSP164	PPS195
DP0960	PPS188			DSP1130	PPS457	DSP165	PPS353
DP0961	PPS913			DSP1140	PPS343	DSP166	PPS208
DP0963	PPS413			DSP1150	PPS433	DSP171	PPS351
DP0967	PPS219			DSP1151	PPS433	DSP176	PPS911
DP0975	PPS485			DSP1152	PPS433	DSP177	PPS047

# CROSS REFERENCES LIST

DELCOREMY		DELCOREMY		DELCOREMY		DELCOREMY	
DSP178	PPS199	DSP277	PPS335	DSP416	PPS026	DSP513	PPS556
DSP1780	PPS983	DSP2770	PPS233	DSP417	PPS400	DSP514	PPS618
DSP181	PPS300	DSP278	PPS276	DSP418	PPS399	DSP515	PPS073
DSP182	PPS004	DSP279	PPS570	DSP422	PPS1012	DSP5157	PPS022
DSP183	PPS004	DSP280	PPS196	DSP423	PPS223	DSP520	PPS041
DSP185	PPS279	DSP2807	PPS479	DSP426	PPS281	DSP521	PPS288
DSP189	PPS929	DSP281	PPS333	DSP427	PPS562	DSP5213	PPS282
DSP192	PPS076	DSP2810	PPS010	DSP432	PPS023	DSP5235	PPS380
DSP193	PPS362	DSP283	PPS236	DSP433	PPS023	DSP524	PPS668
DSP194	PPS458	DSP284	PPS419	DSP434	PPS397	DSP527	PPS053
DSP196	PPS362	DSP285	PPS206	DSP435	PPS652	DSP528	PPS053
DSP197	PPS349	DSP288	PPS331	DSP436	PPS027	DSP5280	PPS309
DSP201	PPS465	DSP289	PPS215	DSP437	PPS178	DSP536	PPS1001
DSP202	PPS557	DSP2901	PPS988	DSP438	PPS182	DSP537	PPS354
DSP203	PPS986	DSP292	PPS1020	DSP439	PPS254	DSP539	PPS486
DSP206	PPS050	DSP294	PPS332	DSP440	PPS214	DSP544	PPS1005
DSP214	PPS194	DSP295	PPS216	DSP443	PPS223	DSP545	PPS1005
DSP215	PPS046	DSP296	PPS221	DSP446	PPS554	DSP547	PPS1005
DSP216	PPS202	DSP297	PPS275	DSP447	PPS1011	DSP549	PPS1000
DSP217	PPS441	DSP300	PPS188	DSP448	PPS026	DSP550	PPS1000
DSP218	PPS440	DSP301	PPS561	DSP449	PPS209	DSP550R	PPS960
DSP219	PPS348	DSP317	PPS225	DSP450	PPS209	DSP551	PPS1000
DSP223	PPS251	DSP327	PPS312	DSP452	PPS030	DSP553	PPS278
DSP224	PPS294	DSP329	PPS256	DSP454	PPS386	DSP555	PPS278
DSP225	PPS279	DSP334	PPS037	DSP455	PPS055	DSP556	PPS514
DSP226	PPS347	DSP337	PPS959	DSP456	PPS368	DSP557	PPS514
DSP227	PPS438	DSP340	PPS238	DSP457	PPS654	DSP570	PPS250
DSP230	PPS928	DSP342	PPS675	DSP457	PPS655	DSP571	PPS448
DSP231	PPS294	DSP353	PPS283	DSP462	PPS026	DSP57C	PPS193
DSP235	PPS470	DSP354	PPS315	DSP464	PPS180	DSP57C	PPS936
DSP236	PPS420	DSP358	PPS057	DSP465	PPS181	DSP581	PPS466
DSP237	PPS645	DSP361	PPS389	DSP479	PPS283	DSP591	PPS661
DSP240	PPS345	DSP3637	PPS912	DSP482	PPS368	DSP595	PPS354
DSP2401	PPS631	DSP364	PPS267	DSP485	PPS360	DSP596	PPS354
DSP241	PPS434	DSP366	PPS517	DSP486	PPS002	DSP601	PPS559
DSP243	PPS344	DSP367	PPS219	DSP4861	PPS990	DSP605	PPS498
DSP244	PPS434	DSP368	PPS517	DSP490	PPS003	DSP606	PPS008
DSP247	PPS432	DSP370	PPS271	DSP490R	PPS029	DSP608	PPS263
DSP248	PPS651	DSP3700	PPS052	DSP491	PPS383	DSP609	PPS263
DSP252	PPS1007	DSP3725	PPS189	DSP499	PPS287	DSP609	PPS008
DSP253	PPS184	DSP375	PPS424	DSP49P	PPS237	DSP613	PPS972
DSP254	PPS186	DSP376	PPS024	DSP500	PPS009	DSP614	PPS980
DSP255	PPS337	DSP378	PPS607	DSP501R	PPS181	DSP615	PPS614
DSP256	PPS183	DSP379	PPS219	DSP5017	PPS318	DSP616	PPS969
DSP257	PPS183	DSP383	PPS225	DSP502	PPS207	DSP619	PPS391
DSP258	PPS242	DSP384	PPS229	DSP5020	PPS1039	DSP620	PPS1027
DSP260	PPS198	DSP385	PPS375	DSP504	PPS065	DSP621	PPS537
DSP261	PPS228	DSP386	PPS503	DSP506	PPS396	DSP623	PPS972
DSP262	PPS421	DSP387	PPS423	DSP507	PPS255	DSP627	PPS512
DSP263	PPS184	DSP388	PPS388	DSP508	PPS189	DSP632	PPS679
DSP264	PPS236	DSP3933	PPS272	DSP5080	PPS372	DSP633	PPS506
DSP266	PPS201	DSP394	PPS388	DSP510	PPS284	DSP634	PPS366
DSP268	PPS250	DSP403	PPS214	DSP5101	PPS022	DSP635	PPS285
DSP271	PPS332	DSP407	PPS325	DSP510R	PPS270	DSP636	PPS429
DSP272	PPS331	DSP410	PPS482	DSP511	PPS065	DSP6402	PPS314
DSP273	PPS275	DSP4113	PPS002	DSP511	PPS255	DSP642	PPS243
DSP275	PPS235	DSP414	PPS029	DSP5117	PPS002	DSP643	PPS426
DSP276	PPS334	DSP415	PPS323	DSP512	PPS204	DSP644	PPS295

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DELCOREMY		DELCOREMY		DELCOREMY		LUK	
DSP645	PPS295	DSP749	PPS414	DSP907	PPS271	2107901	PPS614
DSP646	PPS314	DSP750	PPS415	DSP915	PPS384	2107902	PPS970
DSP647	PPS341	DSP754	PPS257	DSP920	PPS384	2107908	PPS980
DSP650	PPS509	DSP756	PPS286	DSP925	PPS223	2107929	PPS988
DSP651	PPS510	DSP760	PPS246	DSP9346	PPS916	2108007	PPS039
DSP652	PPS985	DSP761	PPS574	DSP948	PPS363	2108051	PPS680
DSP653	PPS208	DSP766	PPS226	DSP952	PPS630	2108230	PPS950
DSP655	PPS342	DSP767	PPS226	DSP955	PPS435	2108429	PPS066
DSP656	PPS454	DSP768	PPS226	DSP957	PPS975	2108430	PPS038
DSP658	PPS431	DSP781	PPS567	DSP963	PPS599	2110068	PPS1026
DSP662	PPS278	DSP784	PPS568	DSP9652	PPS052	541 0001 10	PPS983
DSP664	PPS539	DSP786	PPS567	DSP967	PPS918	541 0002 10	PPS628
DSP665	PPS971	DSP787	PPS567	DSP968	PPS989	541 0004 10	PPS568
DSP666	PPS968	DSP788	PPS567	DSP969	PPS596	541 0005 10	PPS987
DSP667	PPS364	DSP789	PPS385	DSP970	PPS436	541 0006 10	PPS975
DSP668	PPS264	DSP801	PPS273	DSP973	PPS546	541 0009 10	PPS992
DSP669	PPS511	DSP802	PPS330	DSP974	PPS031	541 0011 10	PPS996
DSP66P	PPS217	DSP804	PPS290	DSP975	PPS975	541 0015 10	PPS979
DSP670	PPS264	DSP805	PPS1035	DSP978	PPS637	541 0016 10	PPS630
DSP676	PPS369	DSP807	PPS272	DSP979	PPS035	541 0017 10	PPS977
DSP679	PPS633	DSP8080	PPS990	DSP981	PPS035	541 0018 10	PPS620
DSP688	PPS494	DSP810	PPS486	DSP983	PPS1025	541 0019 10	PPS636
DSP690	PPS008	DSP812	PPS500	DSP986	PPS991	541 0021 10	PPS634
DSP693	PPS430	DSP813	PPS1033	DSP988	PPS993	541 0021 10	PPS994
DSP695	PPS427	DSP816	PPS200	DSP992	PPS994	541 0022 10	PPS972
DSP6958	PPS912	DSP816	PPS921	DSP994	PPS601	541 0023 10	PPS982
DSP700	PPS033	DSP817	PPS200	DSP996	PPS603	541 0025 10	PPS998
DSP700	PPS067	DSP817	PPS001	DSPA3P	PPS180	541 0028 10	PPS623
DSP701	PPS536	DSP818	PPS004	DSPE3C	PPS037	541 0031 10	PPS993
DSP702	PPS249	DSP824	PPS188	DSPQ1P	PPS927	541 0034 10	PPS631
DSP705	PPS286	DSP827	PPS413			541 0034 10	PPS632
DSP708	PPS328	DSP828	PPS917			541 0036 10	PPS1031
DSP709	PPS395	DSP829	PPS188			541 0038 10	PPS995
DSP713	PPS067	DSP82C	PPS517			541 0040 10	PPS990
DSP715	PPS944	DSP82P	PPS517			541 0048 10	PPS968
DSP716	PPS945	DSP837	PPS485			541 0052 10	PPS635
DSP717	PPS923	DSP839	PPS653			541 0053 10	PPS633
DSP718	PPS402	DSP840R	PPS254			541 0054 10	PPS614
DSP719	PPS1010	DSP841	PPS411			541 0055 10	PPS976
DSP720	PPS005	DSP842	PPS505			541 0056 10	PPS989
DSP721	PPS241	DSP843	PPS248			541 0057 10	PPS619
DSP722	PPS005	DSP8477	PPS007			541 0058 10	PPS988
DSP723	PPS241	DSP851	PPS488			541 0060 10	PPS629
DSP724	PPS241	DSP867	PPS985			541 0061 10	PPS637
DSP726	PPS504	DSP868	PPS353			541 0062 10	PPS1042
DSP727	PPS317	DSP869	PPS534			541 0063 10	PPS040
DSP728	PPS531	DSP870	PPS408			541 0068 10	PPS008
DSP729	PPS402	DSP871	PPS508			541 0069 10	PPS970
DSP730	PPS605	DSP874	PPS327			541 0070 10	PPS969
DSP731	PPS605	DSP875	PPS518			541 0071 10	PPS436
DSP733	PPS239	DSP884	PPS252			541 0073 10	PPS1025
DSP735	PPS067	DSP885	PPS407			541 0074 10	PPS980
DSP737	PPS532	DSP892	PPS210			541 0077 10	PPS971
DSP742	PPS316	DSP894	PPS518			541 0080 10	PPS685
DSP7424	PPS218	DSP897	PPS508			541 0082 10	PPS035
DSP744	PPS220	DSP898	PPS211			541 0084 10	PPS1027
DSP746	PPS513	DSP900	PPS267			541 0125 10	PPS950
DSP747	PPS220	DSP906	PPS222			541 0127 10	PPS680

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LUK		SAGINAW		SPIDAN		SPIDAN	
541 0150 10	PPS039	7700840105	PPS520	53501	PPS178	53559	PPS223
541 0154 10	PPS038	7700840106	PPS032	53502	PPS179	53560	PPS224
541 0155 10	PPS066	7700840106	PPS532	53503	PPS180	53561	PPS225
541 0193 10	PPS1026	7700840106	PPS533	53504	PPS027	53562	PPS226
541 0202 10	PPS1044	7700840649	PPS504	53505	PPS181	53563	PPS227
542 0006 10	PPS624	7700840724	PPS249	53506	PPS026	53564	PPS228
542 0011 10	PPS621	7700840724	PPS376	53507	PPS182	53565	PPS911
542 0035 10	PPS526	7700840806	PPS376	53508	PPS183	53566	PPS229
542 0046 10	PPS068	7700872157	PPS556	53509	PPS184	53567	PPS230
542 0422 10	PPS997	7700872160	PPS204	53510	PPS185	53568	PPS032
8102748	PPS993	7700875707	PPS067	53511	PPS022	53569	PPS231
		7700875708	PPS923	53512	PPS186	53570	PPS232
		7700875709	PPS945	53513	PPS187	53571	PPS233
		7700875710	PPS944	53514	PPS023	53572	PPS234
		77094310	PPS324	53515	PPS188	53573	PPS235
		7847017	PPS193	53516	PPS189	53574	PPS236
		8963993	PPS272	53517	PPS003	53575	PPS237
		8972424	PPS233	53518	PPS190	53576	PPS238
		9101577	PPS273	53519	PPS191	53577	PPS239
		9125202	PPS044	53520	PPS052	53578	PPS240
		9140195	PPS255	53521	PPS192	53579	PPS241
		9140244	PPS553	53522	PPS193	53580	PPS242
		948077	PPS311	53523	PPS024	53581	PPS243
		96144288	PPS915	53524	PPS194	53582	PPS244
		96144290	PPS451	53525	PPS195	53583	PPS004
		9120146480	PPS425	53526	PPS196	53584	PPS245
		9602201380	PPS217	53527	PPS197	53585	PPS246
		9610519980	PPS181	53528	PPS198	53586	PPS011
		9614378180	PPS527	53529	PPS199	53587	PPS247
		9614378280	PPS528	53530	PPS200	53588	PPS029
		9617753380	PPS037	53531	PPS030	53589	PPS248
		9622072380	PPS423	53532	PPS201	53590	PPS249
		9623680180	PPS388	53533	PPS202	53591	PPS250
		9623814680	PPS389	53534	PPS203	53592	PPS251
		9624660480	PPS225	53535	PPS204	53593	PPS008
		9625148380	PPS318	53536	PPS045	53594	PPS252
		9628973580	PPS378	53537	PPS205	53595	PPS253
		9631411680	PPS386	53538	PPS005	53596	PPS254
		9631914180	PPS942	53539	PPS206	53597	PPS255
		9631914280	PPS523	53540	PPS207	53598	PPS256
		9631923480	PPS522	53541	PPS208	53599	PPS257
		9631923680	PPS308	53542	PPS209	53600	PPS258
		9632252880	PPS053	53543	PPS210	53601	PPS259
		9632334880	PPS307	53544	PPS211	53602	PPS260
		9632334880	PPS315	53545	PPS047	53603	PPS261
		9632335080	PPS054	53546	PPS212	53604	PPS912
		9632335080	PPS517	53547	PPS213	53605	PPS262
		9632335580	PPS517	53548	PPS065	53606	PPS050
		9632335580	PPS521	53549	PPS214	53607	PPS263
		9633889690	PPS543	53550	PPS215	53608	PPS037
		9634070580	PPS283	53551	PPS216	53609	PPS264
		9634816080	PPS607	53552	PPS217	53610	PPS265
		9635445780	PPS368	53553	PPS218	53611	PPS009
		9635445880	PPS535	53554	PPS219	53612	PPS266
		9636070380	PPS055	53555	PPS002	53613	PPS267
		9636676280	PPS541	53556	PPS220	53614	PPS268
		9636676380	PPS948	53557	PPS221	53615	PPS269
		MR131033	PPS345	53558	PPS222	53616	PPS270

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SPIDAN		SPIDAN		SPIDAN		SPIDAN	
53617	PPS028	53677	PPS018	53736	PPS374	53799	PPS423
53618	PPS271	53678	PPS320	53737	PPS375	53800	PPS927
53619	PPS272	53679	PPS321	53738	PPS376	53801	PPS424
53620	PPS273	53680	PPS322	53739	PPS377	53802	PPS057
53621	PPS274	53681	PPS323	53740	PPS378	53803	PPS425
53622	PPS275	53682	PPS324	53741	PPS379	53804	PPS426
53623	PPS276	53683	PPS325	53742	PPS380	53805	PPS427
53624	PPS277	53684	PPS326	53743	PPS381	53806	PPS428
53625	PPS278	53685	PPS327	53744	PPS920	53807	PPS429
53626	PPS279	53686	PPS917	53745	PPS382	53808	PPS430
53627	PPS280	53687	PPS328	53746	PPS383	53809	PPS431
53628	PPS281	53688	PPS329	53747	PPS384	53810	PPS432
53629	PPS282	53689	PPS330	53748	PPS385	53811	PPS433
53630	PPS283	53690	PPS331	53749	PPS060	53812	PPS434
53631	PPS284	53691	PPS332	53750	PPS013	53813	PPS435
53632	PPS285	53692	PPS333	53751	PPS386	53814	PPS436
53633	PPS286	53693	PPS334	53752	PPS387	53815	PPS437
53634	PPS287	53694	PPS335	53753	PPS388	53816	PPS928
53635	PPS288	53695	PPS336	53754	PPS389	53818	PPS438
53636	PPS289	53696	PPS337	53755	PPS921	53819	PPS439
53637	PPS290	53697	PPS338	53756	PPS059	53820	PPS440
53638	PPS291	53698	PPS339	53757	PPS390	53821	PPS441
53639	PPS044	53699	PPS340	53758	PPS391	53822	PPS442
53640	PPS292	53700	PPS341	53759	PPS392	53825	PPS445
53641	PPS913	53701	PPS342	53760	PPS922	53826	PPS446
53643	PPS041	53702	PPS343	53761	PPS393	53827	PPS447
53644	PPS294	53703	PPS344	53762	PPS394	53828	PPS448
53645	PPS295	53704	PPS345	53763	PPS923	53829	PPS449
53646	PPS296	53705	PPS346	53764	PPS395	53830	PPS450
53647	PPS297	53706	PPS347	53765	PPS396	53831	PPS046
53648	PPS298	53707	PPS348	53766	PPS397	53832	PPS451
53649	PPS299	53708	PPS349	53767	PPS398	53833	PPS452
53650	PPS914	53709	PPS350	53768	PPS399	53834	PPS453
53651	PPS915	53710	PPS351	53769	PPS400	53835	PPS929
53652	PPS300	53711	PPS352	53770	PPS401	53836	PPS454
53653	PPS301	53712	PPS353	53771	PPS402	53837	PPS455
53654	PPS916	53713	PPS354	53773	PPS404	53838	PPS456
53655	PPS302	53714	PPS355	53774	PPS405	53839	PPS457
53656	PPS303	53715	PPS356	53775	PPS406	53840	PPS458
53657	PPS304	53716	PPS357	53776	PPS407	53841	PPS930
53658	PPS010	53717	PPS358	53778	PPS924	53842	PPS459
53659	PPS305	53718	PPS359	53779	PPS408	53843	PPS931
53661	PPS307	53719	PPS360	53780	PPS409	53844	PPS460
53662	PPS308	53720	PPS361	53781	PPS410	53845	PPS461
53663	PPS309	53721	PPS918	53782	PPS411	53846	PPS462
53664	PPS310	53722	PPS362	53783	PPS412	53847	PPS031
53665	PPS311	53723	PPS363	53784	PPS413	53848	PPS932
53666	PPS312	53724	PPS364	53785	PPS414	53849	PPS463
53667	PPS313	53725	PPS365	53786	PPS415	53850	PPS464
53668	PPS314	53726	PPS001	53788	PPS043	53851	PPS465
53669	PPS008	53727	PPS366	53789	PPS416	53852	PPS466
53670	PPS315	53728	PPS367	53792	PPS419	53853	PPS933
53671	PPS053	53729	PPS368	53793	PPS420	53854	PPS467
53672	PPS033	53730	PPS919	53794	PPS421	53855	PPS468
53673	PPS316	53731	PPS369	53795	PPS422	53856	PPS036
53674	PPS317	53732	PPS370	53796	PPS925	53857	PPS469
53675	PPS318	53734	PPS372	53797	PPS056	53858	PPS470
53676	PPS319	53735	PPS373	53798	PPS926	53859	PPS934



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SPIDAN		SPIDAN		SPIDAN		SPIDAN	
53860	PPS471	53918	PPS517	53980	PPS951	54043	PPS957
53861	PPS472	53919	PPS518	53981	PPS558	54044	PPS958
53862	PPS935	53920	PPS519	53982	PPS038	54047	PPS959
53863	PPS473	53921	PPS067	53983	PPS559	54048	PPS608
53864	PPS474	53922	PPS520	53984	PPS560	54049	PPS960
53865	PPS475	53923	PPS020	53985	PPS561	54050	PPS014
53866	PPS476	53924	PPS521	53987	PPS562	54051	PPS609
53867	PPS007	53925	PPS942	53988	PPS563	54052	PPS610
53868	PPS477	53926	PPS522	53989	PPS564	54053	PPS611
53869	PPS478	53927	PPS053	53990	PPS565	54055	PPS612
53870	PPS479	53928	PPS523	53991	PPS566	54057	PPS961
53871	PPS480	53929	PPS524	53992	PPS567	54059	PPS962
53872	PPS936	53930	PPS525	53993	PPS568	54061	PPS613
53873	PPS481	53933	PPS526	53994	PPS569	54063	PPS963
53874	PPS482	53934	PPS527	53995	PPS1046	54064	PPS614
53875	PPS483	53935	PPS528	53996	PPS570	54065	PPS615
53876	PPS484	53936	PPS529	53997	PPS571	54066	PPS074
53877	PPS485	53937	PPS530	53998	PPS572	54067	PPS616
53878	PPS486	53938	PPS531	53999	PPS573	54068	PPS964
53879	PPS487	53939	PPS532	54000	PPS574	54069	PPS965
53880	PPS488	53940	PPS533	54001	PPS575	54070	PPS617
53881	PPS937	53941	PPS006	54002	PPS576	54071	PPS618
53882	PPS938	53942	PPS943	54003	PPS577	54072	PPS966
53883	PPS489	53944	PPS534	54004	PPS578	54073	PPS967
53884	PPS490	53945	PPS535	54005	PPS952	54074	PPS619
53885	PPS491	53946	PPS944	54006	PPS579	54075	PPS620
53886	PPS492	53947	PPS945	54007	PPS580	54076	PPS968
53887	PPS493	53948	PPS536	54008	PPS581	54077	PPS969
53888	PPS494	53949	PPS946	54010	PPS582	54078	PPS621
53889	PPS495	53950	PPS001	54011	PPS583	54080	PPS970
53890	PPS496	53951	PPS947	54012	PPS584	54081	PPS971
53891	PPS497	53952	PPS062	54013	PPS585	54082	PPS972
53892	PPS498	53953	PPS537	54014	PPS586	54083	PPS622
53893	PPS939	53954	PPS538	54015	PPS587	54084	PPS973
53894	PPS499	53955	PPS539	54016	PPS588	54086	PPS974
53895	PPS500	53956	PPS017	54017	PPS953	54087	PPS623
53896	PPS501	53957	PPS540	54018	PPS589	54088	PPS975
53897	PPS502	53958	PPS541	54019	PPS590	54089	PPS976
53898	PPS054	53959	PPS542	54020	PPS954	54090	PPS977
53899	PPS503	53960	PPS948	54021	PPS591	54091	PPS978
53900	PPS504	53961	PPS543	54022	PPS955	54092	PPS979
53901	PPS505	53962	PPS544	54023	PPS592	54093	PPS980
53902	PPS506	53963	PPS545	54024	PPS593	54094	PPS981
53903	PPS507	53964	PPS546	54025	PPS594	54095	PPS624
53904	PPS508	53965	PPS547	54026	PPS595	54096	PPS982
53905	PPS509	53966	PPS035	54027	PPS596	54097	PPS983
53906	PPS510	53967	PPS548	54028	PPS597	54098	PPS984
53907	PPS511	53968	PPS549	54029	PPS598	54100	PPS625
53908	PPS940	53969	PPS550	54030	PPS599	54101	PPS626
53909	PPS512	53970	PPS551	54031	PPS600	54102	PPS985
53910	PPS513	53971	PPS552	54032	PPS601	54105	PPS986
53911	PPS067	53972	PPS553	54033	PPS602	54108	PPS987
53912	PPS514	53973	PPS034	54035	PPS603	54109	PPS988
53913	PPS515	53974	PPS949	54036	PPS604	54112	PPS989
53914	PPS516	53975	PPS554	54038	PPS605	54113	PPS628
53915	PPS012	53977	PPS556	54039	PPS956	54114	PPS629
53916	PPS941	53978	PPS950	54041	PPS606	54115	PPS630
53917	PPS055	53979	PPS557	54042	PPS607	54116	PPS990

# CROSS REFERENCES LIST

SPIDAN		SPIDAN		SPIDAN		TRISCAN	
54117	PPS040	54189	PPS658	54256	PPS1043	8515-15604	PPS253
54118	PPS068	54190	PPS659	54257	PPS042	8515-15605	PPS246
54119	PPS991	54191	PPS1016	54258	PPS1044	8515-15606	PPS266
54120	PPS992	54192	PPS1017	54259	PPS685	8515-15607	PPS239
54121	PPS631	54195	PPS660	54261	PPS1045	8515-15608	PPS262
54122	PPS632	54196	PPS1018	54262	PPS686	8515-15609	PPS467
54123	PPS633	54197	PPS1019	54264	PPS687	8515-15611	PPS036
54124	PPS634	54198	PPS661			8515-15612	PPS658
54125	PPS993	54199	PPS662			8515-15613	PPS677
54126	PPS635	54200	PPS1020			8515-16600	PPS179
54127	PPS994	54203	PPS663			8515-16601	PPS185
54128	PPS995	54204	PPS1021			8515-16602	PPS187
54130	PPS636	54205	PPS1022			8515-16603	PPS191
54131	PPS996	54206	PPS1023			8515-16604	PPS192
54132	PPS637	54207	PPS1024			8515-16605	PPS194
54134	PPS997	54209	PPS1025			8515-16606	PPS195
54135	PPS998	54210	PPS1026			8515-16607	PPS199
54136	PPS638	54211	PPS1027			8515-16608	PPS202
54137	PPS639	54212	PPS664			8515-16609	PPS203
54139	PPS641	54213	PPS1028			8515-16610	PPS045
54140	PPS999	54214	PPS665			8515-16611	PPS047
54142	PPS642	54215	PPS666			8515-16612	PPS218
54148	PPS060	54216	PPS667			8515-16613	PPS224
54151	PPS1000	54217	PPS668			8515-16614	PPS365
54152	PPS1001	54219	PPS076			8515-16616	PPS355
54153	PPS1002	54220	PPS1029			8515-16617	PPS370
54155	PPS644	54221	PPS670			8515-16618	PPS261
54156	PPS1003	54222	PPS671			8515-16620	PPS280
54157	PPS1004	54223	PPS1030			8515-16621	PPS463
54158	PPS1005	54224	PPS672			8515-16622	PPS313
54161	PPS1006	54225	PPS073			8515-16623	PPS464
54162	PPS039	54226	PPS673			8515-16624	PPS951
54163	PPS645	54227	PPS1031			8515-16624	PPS613
54164	PPS1007	54228	PPS674			8515-16625	PPS914
54165	PPS1008	54229	PPS035			8515-16627	PPS557
54166	PPS646	54230	PPS675			8515-23600	PPS258
54167	PPS647	54232	PPS1032			8515-23604	PPS382
54168	PPS1009	54233	PPS676			8515-23605	PPS437
54169	PPS1010	54234	PPS1033			8515-23606	PPS546
54170	PPS1047	54235	PPS066			8515-23607	PPS918
54171	PPS1011	54236	PPS677			8515-23608	PPS035
54172	PPS067	54237	PPS678			8515-23609	PPS548
54173	PPS648	54238	PPS679			8515-23610	PPS549
54174	PPS649	54239	PPS1034			8515-23611	PPS550
54175	PPS650	54240	PPS1035			8515-23612	PPS595
54176	PPS651	54241	PPS1036			8515-23613	PPS596
54177	PPS1012	54242	PPS1037			8515-23616	PPS597
54178	PPS652	54243	PPS1038			8515-23619	PPS031
54179	PPS1013	54244	PPS680			8515-23620	PPS526
54180	PPS653	54247	PPS681			8515-23621	PPS040
54181	PPS654	54248	PPS1039			8515-24600	PPS178
54182	PPS1014	54249	PPS020			8515-24601	PPS027
54183	PPS071	54250	PPS682			8515-24602	PPS026
54184	PPS655	54251	PPS1040			8515-24603	PPS182
54185	PPS1015	54252	PPS1041			8515-24604	PPS023
54186	PPS077	54253	PPS683			8515-24605	PPS030
54187	PPS656	54254	PPS684			8515-24606	PPS205
54188	PPS657	54255	PPS1042			8515-24607	PPS214

# CROSS REFERENCES LIST

TRISCAN		TRISCAN		TRISCAN		VISTEON	
8515-24608	PPS311	8515-28618	PPS057	8515-43600	PPS297	HBD FS	PPS1032
8515-24609	PPS554	8515-28619	PPS527	8515-43601	PPS458	HBD FY	PPS370
8515-24611	PPS234	8515-28620	PPS528	8515-43602	PPS362	HBD FZ	PPS954
8515-24612	PPS254	8515-28621	PPS055	8515-43603	PPS277	HBD GA	PPS613
8515-25600	PPS005	8515-28622	PPS927	8515-50600	PPS440	HBD GK	PPS194
8515-25601	PPS213	8515-28623	PPS056	8515-50601	PPS439	HBD HA	PPS1015
8515-25602	PPS220	8515-28624	PPS404	8515-50602	PPS251	HBD HO	PPS1041
8515-25603	PPS286	8515-28626	PPS308	8515-50603	PPS294	HBD HP	PPS683
8515-25604	PPS257	8515-28627	PPS535	8515-65600	PPS273	HBD JC	PPS951
8515-25605	PPS328	8515-28628	PPS368	8515-65601	PPS330		
8515-25606	PPS395	8515-28629	PPS503	8515-65602	PPS416		
8515-25607	PPS226	8515-28630	PPS389	8515-65603	PPS290	<b>ZF</b>	
8515-25608	PPS533	8515-29600	PPS022	8515-65604	PPS233	7612955101	PPS254
8515-25609	PPS530	8515-29601	PPS003	8515-65605	PPS486	7612955104	PPS500
8515-25611	PPS032	8515-29602	PPS190	8515-65606	PPS500	7612955106	PPS554
8515-25612	PPS532	8515-29603	PPS200	8515-65607	PPS272	7613955101	PPS518
8515-25613	PPS536	8515-29604	PPS002	8515-68600	PPS413	7613955102	PPS642
8515-25614	PPS034	8515-29605	PPS309	8515-68601	PPS917	7613955103	PPS074
8515-25615	PPS033	8515-29606	PPS305	8515-69600	PPS411	7613955112	PPS618
8515-25616	PPS067	8515-29607	PPS011			7613955116	PPS670
8515-25617	PPS520	8515-29608	PPS291	<b>VISTEON</b>		7613955118	PPS074
8515-25618	PPS316	8515-29609	PPS493	HBD AD	PPS914	7613955119	PPS1039
8515-25619	PPS513	8515-29610	PPS473	HBD AE	PPS185	7613955135	PPS966
8515-25621	PPS249	8515-29611	PPS010	HBD AL	PPS199	7613955136	PPS073
8515-25622	PPS319	8515-29614	PPS001	HBD AR	PPS280	7613955141	PPS073
8515-25623	PPS515	8515-29615	PPS001	HBD AS	PPS463	7613955505	PPS1028
8515-25624	PPS376	8515-29616	PPS380	HBD AW	PPS464	7614955107	PPS667
8515-25626	PPS268	8515-29617	PPS358	HBD AZ	PPS453	7617955502	PPS654
8515-25627	PPS241	8515-29618	PPS360	HBD BB	PPS046	7671900402	PPS363
8515-25628	PPS067	8515-29619	PPS012	HBD BD	PPS224	7671900406	PPS363
8515-25629	PPS1008	8515-29620	PPS013	HBD BF	PPS203	7671955140	PPS305
8515-27601	PPS052	8515-29621	PPS020	HBD BH	PPS649	7671955166	PPS383
8515-27602	PPS207	8515-29622	PPS921	HBD BJ	PPS932	7671955172	PPS575
8515-27603	PPS065	8515-29624	PPS282	HBD BJ*	PPS313	7672900404	PPS346
8515-27604	PPS284	8515-29626	PPS009	HBD BK	PPS462	7672900422	PPS435
8515-27605	PPS043	8515-29627	PPS287	HBD BS*	PPS261	7672900424	PPS346
8515-27606	PPS255	8515-29628	PPS060	HBD BS*	PPS557	7672900426	PPS435
8515-27607	PPS288	8515-29630	PPS068	HBD BU	PPS224	7672900428	PPS346
8515-27608	PPS041	8515-38601	PPS209	HBD BV	PPS224	7672900432	PPS435
8515-27609	PPS044	8515-38602	PPS315	HBD BZ	PPS245	7672900436	PPS346
8515-27610	PPS556	8515-38605	PPS283	HBD CB	PPS465	7672900438	PPS435
8515-27611	PPS204	8515-38606	PPS942	HBD CC	PPS300	7672900442	PPS435
8515-27613	PPS329	8515-38606	PPS522	HBD CG	PPS355	7672900444	PPS346
8515-28600	PPS180	8515-38606	PPS522	HBD CL	PPS455	7672900446	PPS435
8515-28601	PPS181	8515-38607	PPS053	HBD CP	PPS194	7672900448	PPS346
8515-28602	PPS193	8515-38608	PPS386	HBD CT	PPS951	7672955270	PPS578
8515-28603	PPS024	8515-38611	PPS312	HBD CV	PPS370	7673955544	PPS036
8515-28604	PPS217	8515-38612	PPS238	HBD CX	PPS613	7673955570	PPS262
8515-28605	PPS219	8515-38613	PPS256	HBD CY	PPS1002	7681900501	PPS382
8515-28606	PPS307	8515-38614	PPS668	HBD DZ	PPS483	7681900502	PPS595
8515-28608	PPS517	8515-38615	PPS675	HBD EB	PPS365	7681900503	PPS382
8515-28609	PPS521	8515-40600	PPS450	HBD EC	PPS666	7681955102	PPS336
8515-28610	PPS318	8515-40601	PPS278	HBD EX*	PPS641	7681955103	PPS1038
8515-28611	PPS229	8515-40602	PPS445	HBD EX*	PPS649	7681955108	PPS321
8515-28612	PPS541	8515-40603	PPS354	HBD EY	PPS245	7681955109	PPS567
8515-28613	PPS948	8515-42600	PPS345	HBD EZ*	PPS261	7681955110	PPS336
8515-28614	PPS037	8515-42601	PPS434	HBD EZ*	PPS557	7681955112	PPS336
8515-28617	PPS053	8515-42602	PPS433	HBD FB	PPS455	7681955115	PPS567
		8515-42604	PPS457	HBD FG*	PPS657	7681955118	PPS568












# CROSS REFERENCES LIST

ZF		ZF		ZF		ZF	
7681955119	PPS567	7681955272	PPS946	7691955179	PPS931	7692955118	PPS225
7681955123	PPS468	7681955278	PPS361	7691955180	PPS260	7692955118	PPS229
7681955128	PPS011	7681955280	PPS309	7691955182	PPS373	7692955122	PPS013
7681955130	PPS207	7681955281	PPS358	7691955185	PPS380	7692955123	PPS020
7681955140	PPS266	7681974103	PPS018	7691955190	PPS931	7692955133	PPS013
7681955142	PPS336	7682900108	PPS552	7691955195	PPS226	7692955134	PPS020
7681955144	PPS336	7682900110	PPS547	7691955196	PPS302	7692974101	PPS208
7681955146	PPS391	7682900111	PPS524	7691955200	PPS912	7692974104	PPS507
7681955147	PPS664	7682900112	PPS544	7691955202	PPS374	7692974113	PPS507
7681955154	PPS263	7682900114	PPS545	7691955204	PPS007	8601955102	PPS190
7681955155	PPS253	7682900115	PPS525	7691955205	PPS287	8601955104	PPS473
7681955162	PPS475	7682900502	PPS549	7691955207	PPS060	8601955107	PPS190
7681955164	PPS480	7682900504	PPS595	7691955213	PPS282	8601955108	PPS473
7681955165	PPS664	7682900508	PPS382	7691955220	PPS943	8601955110	PPS190
7681955166	PPS391	7682900511	PPS603	7691955224	PPS004	8601955111	PPS473
7681955167	PPS357	7682955102	PPS289	7691955227	PPS947	8601955114	PPS190
7681955168	PPS320	7682955105	PPS590	7691955229	PPS006	8601955115	PPS473
7681955171	PPS540	7682955109	PPS258	7691955231	PPS460	8601955117	PPS479
7681955172	PPS591	7682955117	PPS472	7691955234	PPS001	8601955124	PPS190
7681955180	PPS487	7682955122	PPS472	7691955235	PPS380	8601955125	PPS473
7681955184	PPS919	7682955123	PPS472	7691955236	PPS004	8601955127	PPS478
7681955185	PPS263	7682955128	PPS472	7691955237	PPS379	8601955131	PPS190
7681955186	PPS291	7683900502	PPS939	7691955241	PPS935	8601955141	PPS473
7681955196	PPS567	7683900506	PPS598	7691955241	PPS949	8691900501	PPS546
7681955197	PPS008	7683900514	PPS939	7691955243	PPS912	8691900503	PPS546
7681955198	PPS269	7683900520	PPS599	7691955247	PPS246	8691955129	PPS512
7681955199	PPS359	7683900522	PPS601	7691955250	PPS374	8691955139	PPS212
7681955200	PPS492	7683955114	PPS239	7691955259	PPS373	8691955141	PPS938
7681955205	PPS010	7683955501	PPS600	7691955262	PPS460	8691955148	PPS938
7681955210	PPS937	7684955124	PPS239	7691955263	PPS007	8691955149	PPS212
7681955211	PPS946	7690955102	PPS360	7691955264	PPS379	8691955153	PPS212
7681955215	PPS919	7690955104	PPS012	7691955267	PPS020	8691955154	PPS512
7681955219	PPS476	7690955105	PPS935	7691955268	PPS931	8691955155	PPS539
7681955220	PPS493	7691900502	PPS918	7691955269	PPS004	8691955158	PPS498
7681955228	PPS269	7691900504	PPS437	7691955276	PPS947	8692900505	PPS551
7681955230	PPS269	7691900505	PPS437	7691955501	PPS035	8692900506	PPS550
7681955231	PPS008	7691900506	PPS918	7691974101	PPS222	8692900512	PPS551
7681955232	PPS359	7691900513	PPS537	7691974104	PPS211	8692955106	PPS369
7681955233	PPS008	7691955102	PPS246	7691974106	PPS022	8692955127	PPS489
7681955235	PPS357	7691955103	PPS001	7691974112	PPS003	8692955506	PPS548
7681955236	PPS492	7691955105	PPS324	7691974113	PPS002	8693900504	PPS499
7681955237	PPS391	7691955108	PPS009	7691974114	PPS501	8693900516	PPS602
7681955240	PPS476	7691955110	PPS265	7691974115	PPS501	8693900518	PPS499
7681955247	PPS263	7691955111	PPS200	7691974123	PPS009	9638339880	PPS668
7681955248	PPS591	7691955112	PPS477	7691974139	PPS285		
7681955249	PPS487	7691955119	PPS496	7691974140	PPS211		
7681955250	PPS263	7691955122	PPS474	7691974148	PPS534		
7681955251	PPS567	7691955150	PPS372	7691974150	PPS060		
7681955252	PPS008	7691955152	PPS047	7691974504	PPS494		
7681955253	PPS497	7691955155	PPS442	7691974505	PPS059		
7681955256	PPS584	7691955158	PPS338	7691974507	PPS364		
7681955259	PPS953	7691955159	PPS265	7691974508	PPS017		
7681955260	PPS018	7691955160	PPS469	7691974509	PPS495		
7681955261	PPS270	7691955161	PPS372	7691974514	PPS494		
7681955264	PPS291	7691955166	PPS943	7691974515	PPS059		
7681955265	PPS010	7691955169	PPS246	7691974516	PPS495		
7681955266	PPS493	7691955170	PPS496	7691974517	PPS062		
7681955268	PPS488	7691955171	PPS324	7692900503	PPS031		

**CONVENTIONAL SIGNS AND EXPLANATIONS**

**ОБОЗНАЧЕНИЯ И ПОЯСНЕНИЯ**

## CONVENTIONAL SIGNS AND EXPLANATIONS

	ENGLISH	РУССКИЙ
	Vehicle applications	Применяемость в автомобилях
	Model year	Год выпуска
	Remarks	Примечания
 mm	Belt pulley diameter (mm)	Диаметр ременного шкива (мм)
	Number of ribs	Количество ребер
Ports	Number of ports	Количество соединений
	Passenger car	Седан
	Hatchback	Хэтчбек
	Coupe	Купе
	Station wagon	Универсал
	Convertible	Кабриолет
	Van	Фургон
x	No / Without	Нет / Без
AC	Air condition	Кондиционер
ASC	Automatic stability control	Система стабилизации
ASC/T	Automatic Stability Control + Traction	Система стабилизации с регулятором тяги
ASD	Self-locking differential	Автоматическая блокировка дифференциала
Auto	Automatic gearbox	Автоматическая коробка передач
Belt	Belt driven	Ременной привод
Electric	Electric pump	Электрический насос
Exc.	Excluded	Исключая
FWD	Front wheel drive	Передний привод
Gear Driven	Driven by gearbox	С приводом от коробки передач
H →XX mm←	Thickness mounting bracket	Толщина монтажного кронштейна
H →XX mm← / F	Thickness mounting bracket / flat	Толщина монтажного кронштейна / плоский
H →XX mm← / C	Thickness mounting bracket / curved	Толщина монтажного кронштейна / изогнутый
H	With fixed mounting bracket	С закрепленным монтажным кронштейном
xH	Without fixed mounting bracket	Без закрепленного монтажного кронштейна
Hydractive	Hydractive suspension	Гидропневматическая подвеска
IN —	Straight inlet pipe	Прямая впускная труба
IN ↗	Angled suction pipe	Угловая всасывающая труба
IN ↗ TO OUT	Inlet pipe at right angle to outlet ports	Впускная труба под прямым углом к выпускным каналам
IN/OUT —	Inlet pipe in line with outlet ports	Впускная труба на одной прямой с выпускными каналами
Incl.	Included	Включая
IN-Fe	Steel suction pipe	Стальная всасывающая труба
IN-P	Plastic suction pipe	Пластмассовая всасывающая труба
IR	Integral reservoir	Встроенный бак
IR-B	Integral pear shaped reservoir	Встроенный грушевидный бак
IR-Fe	Integral reservoir steel	Встроенный стальной бак
IR-P	Integral reservoir plastic	Встроенный пластмассовый бак
KW	Crankshaft driven	Привод от коленчатого вала
L =	Overall pump length	Габаритная длина насоса
Man	Manual gearbox	Механическая коробка передач
NW	Camshaft driven	Привод от распределительного вала
●	Round pulley flange	Круглый фланец шкива
▼	Triangular pulley flange	Треугольный фланец шкива
● ∅	Diameter round pulley flange	Диаметр круглого фланца шкива
Pulley	Pulley	Шкив
Pump-Al	Pump alloy	Насос литой алюминиевый
Pump-Al/Fe	Half alloy / half cast unit	Насос составной из алюминия и чугуна

## CONVENTIONAL SIGNS AND EXPLANATIONS

	ENGLISH	РУССКИЙ
Pump-Fe	Pump cast	Насос литой чугунный
RS-3x	Pulley with 3 bolts	Шкив с 3 болтами
RS-P	Plastic pulley	Пластмассовый шкив
RS-S-Ø	Diameter between centres of pulley mounting holes	Диаметр между центрами монтажных отверстий шкива
Sensor	With sensor	С датчиком
SLS	Level control system / self-levelling system	Система регулирования уровня
SSP	Speed sensitive steering	Рулевое управление, изменяющее степень усиления с изменением скорости движения
Tandem	Tandem pump	Сдвоенный насос
Carb.	Carburator	Карбюратор
A1	Flush fitting	Скрытая гарнитура
A2	Raised fitting	Рельефная гарнитура
A3	Pump located on gearbox housing	Насос расположен на картере коробки передач
A4	Pump located on engine block	Насос расположен на блоке цилиндров двигателя
A5	Water pump drive	Привод водяного насоса
A6	Threaded mounting holes	Монтажные отверстия с резьбой
A7	Plain mounting holes	Гладкие монтажные отверстия
A8	Clamp type mounting	Монтаж зажимами
A9	Bolt on inlet pipe	Впускная труба, закрепленная болтами
A10	With bearing on shaft	С подшипником на вале
A11	With copper sleeve on shaft	С медной гильзой на вале
A12	With keyway	Со шпоночной канавкой
A13	53 mm hose OE 129974682 needed if replacing Vickers pump	Необходим шланг 53 мм OE 129974682 для замены насоса Vickers
A14	76 mm hose OE 129975182 needed if replacing Vickers pump	Необходим шланг 76 мм OE 129975182 для замены насоса Vickers
A15	Return hose OE 1094953 and pressure hose OE 1096737 may be required	Могут понадобиться возвратный шланг OE 1094953 и напорный шланг OE 1096737
A16	Tin case enclosed pump	Насос помещен в жестяной корпус

