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3M03SV

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506.003/08 (V/94)	**00**	14	All versions	Introduction - Technical data
	10	5	1108 1242 SPI	Fuel system: SPI IAW injection-ignition system
		4	1242 MPI	Fuel system: injection system- MPI IAW ignition
		1	1372 turbo	Fuel system: injection system- Bosch Motronic M27 MPI ignition
		6	1698 TD	Replacement operations on vehicle – Fuel system
		Contents 35 - 36	1581 MPI G.M.	Fuel system
		13 - 16	All versions	Cooling system
	18	Contents 8 - 11	All versions	Pedal unit
	21-27	1	1108 – 1242	External gearbox controls
	44	Contents 19 - 20	1372 turbo	Wheel hub nut
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		Contents 1 - 50	1108 CF2 1698 D (Em 08) 1698 TD CF2	Introduction - Technical data
	10	Contents 44-45	1108 CF2	Fuel system
		Contents 1-11	1698 D (Em 08)	
		Contents 25-26	1698 TD CF2	
506.003/13 (III/95)	**00**	Contents 1-15	1108 SPI (EM.04) East Europe/dusty areas	Update

Cont. ☛

Summary

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506.003/15 (IX/95)	**00**	92-104	All versions	Technical data
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		Index 1 - 19	1242 *SPI CF2*	Introduction - Technical data
	41	27	All versions	Update
506.003/16 (IV/96)	**33**	1 - 27	All versions	Update Bosch 5.3 ABS
506.003/17 (X/96)	**00**	Index 1 - 19	1372 *Turbo CF2* 1698 *TD 60*	Introduction - Technical data Fuel system
506.003/19 (XII/96)	**10**	Index 1 - 4	1242 *SPI Selecta* Japan version	Fuel system
506.003/29 (XI/98)	**00**	12-13 25-27	All versions	Technical data update
506.003/30 (XI/99)	**10**	27 - 33	1697 *TD*	Fuel system update E.G.R. system

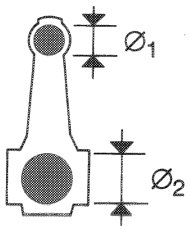
This manual contains the main instructions to be followed for the repair and maintenance of the **Punto**

The **INTRODUCTION AND TECHNICAL DATA (00.)** section has the dual purpose of introducing the model and supporting the rest of the manual. This section includes technical data tables and specific information relating to the other sections in the manual.

The remaining sections (10. - 18. ecc.) contain descriptions relating to the repair procedures.

Graphic symbols are used in this manual instead of descriptions of mechanical parts, operations or repair methods.
The shading of a component or part serves to highlight the part and to draw the mechanic's attention to the item to be measured or checked.

Example:



Ø1 Connecting rod small end diameter

Ø2 Big end bearing seating

Tighten to specified torque

ENGINE *Section 10 describes the operations for removing and refitting the engine, operations on the car and the fuel, lubrication and cooling systems for each engine type.*

The engine overhaul procedure is published in separate document bundles with the following publication numbers:

1108 - 1242 SPI - 1242 MPI	*504.589/13*
1372 turbo	*504.506*
1698 TD	*504.593/09*

GEARBOX *Section 21-27 describes the oeprations for removing and refitting the various gearboxes. The bench overhaul procedure for manual gearboxes is published in separate bundles with the following publication numbers:*

Gearbox for engines 1108 - 1242 SPI - 1242 MPI:	*505.023/08*
Gearbox for engine 1108 (6 speed):	*505.023/09*
Gearbox for engines 1372 turbo - 1698 TD:	*505.023/03*

THIS PUBLICATION IS IN LOOSE-LEAF FORMAT SO THAT UPDATES CAN BE ADDED.

Where the symbol for engine 1697 

appears, read engine 1698 

The **Punto** is a hatchback with monocoque body, transverse-mounted engine and front-wheel drive.

The **Punto** is produced with 6 different engine types:

The **Punto 55** is fitted with a 1108 cm^3 4 cylinder in-line engine, with IAW Weber-Marelli SPI integrated electronic ignition-fuel injection, and it delivers an EEC power output of 40 kW (55 bhp DIN).

The **Punto 60** is fitted with a 1242 cm^3 4 cylinder in-line engine, with IAW Weber-Marelli SPI integrated electronic ignition-fuel injection, and it delivers an EEC power output of 43 kW (60 bhp DIN).

The **Punto 75** is fitted with a 1242 cm^3 4 cylinder in-line engine, with IAW Weber-Marelli MPI integrated electronic ignition-fuel injection, and it delivers an EEC power output of 54 kW (75 bhp DIN).

The **Punto GT** is fitted with a 1372 cm^3 4 cylinder in-line engine, with Bosch Motronic M 2.7 MPI integrated electronic ignition-fuel injection, turbocharged with an IHI VL 7 turbocharger, and it delivers an EEC power output of 98 kW (136 bhp DIN).

The **Punto TD ECE 08** is fitted with a 1698 cm^3 4 cylinder in-line engine, with indirect injection diesel cycle and turbocharged by a Garrett T2 turbocharger, with low grade of smoke, and it delivers an EEC power output of 52 kW (72 bhp DIN).

The **Punto TD USA 87** is fitted with a 1698 cm^3 4 cylinder in-line engine, with indirect injection diesel cycle and turbocharged by a Garrett T2 turbocharger, with catalytic converter and exhaust gas recirculation system (EGR), and it delivers an EEC power output of 51 kW (70 bhp DIN).


Remove
Disconnect


Refit
Connect


Disassemble
Dismantle

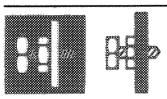

Assemble
Reassemble


Tighten to torque


Tighten to torque
plus angle


Tighten fully


Stake nut


Setting
Adjustment


Visual check
Check

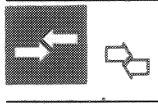

Warning

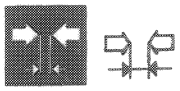

Lubricate
Moisten


Replace
Genuine parts


Bleed braking
system


Surface to be machined
After machining


Interference
Force fit


Dimension to be measured
Measurement – Check
Thickness - Clearance


Rolling torque


Inlet


Exhaust


Operation


Tolerance
Weight difference


Preload


Rotation


Compression
ratio


Selection
Classes


Oversized
O/sized to ...
Maximum


Undersized
U/sized to ...
Minimum


Rpm


Ratio

Pressure


Temperature


Temperature <0°C
Cold
Winter


Temperature >0°C
Hot
Summer


Windscreen wiper
with windscreen
washer pump


Rear window wiper
with rear window
washer pump


Engine