

FI SERIES

Vehicle application

S23

S23 ENT C

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This publication describes the characteristics, data and correct methods for repair operations on each component of the vehicle.

If the instructions provided are followed and the specified equipment is used, correct repair operations in the programmed time will be ensured, safeguarding against possible accidents.

Before starting to perform whatever type of repair, ensure that all accident prevention equipment is available and efficient.

All protections specified by safety regulations, i.e.: goggles, helmet, gloves, boot, etc. must be checked and worn.

All machining, lifting and conveying equipment should be inspected before use.

The data contained in this publication are correct at the time of going to press but due to possible modifications made by the Manufacturer for reasons of a technical or commercial nature or for adaptation to the local requirements of the different countries, some changes may have occurred.

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Publication edited by
Iveco Motors
Iveco SpA
PowerTrain
Mkt. Advertising & Promotion
Viale dell'Industria, 15/17
20010 Pregnana Milanese
Milano (Italy)
Print **P1D32S001GB/W** - 2nd Ed. 02.2005
S23 ENT C Series

Produced by:



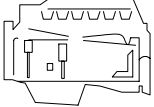
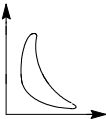
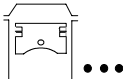

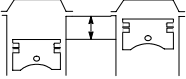
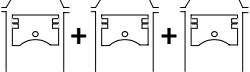
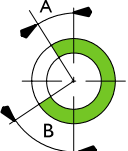

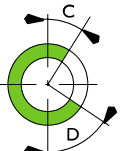

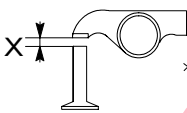
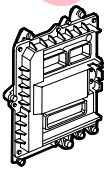
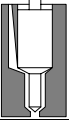
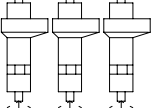
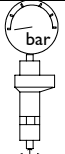
B.U. TECHNICAL PUBLISHING
Iveco Technical Publications
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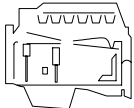

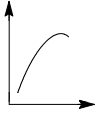

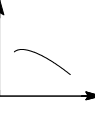







CORRESPONDENCE BETWEEN TECHNICAL CODE AND COMMERCIAL CODE

Technical Code	Commercial Code
FIAE048IB*A0..	S23 ENT C
FIAE048IB*B0..	S23 ENT C

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SPECIFICATIONS

	Type	S23 ENT C SERIES	
	Cycle	Four-stroke diesel engine	
	Power	Supercharged with intercooler	
	Injection	Direct	
	Number of cylinders	4 in-line	
	Bore	mm	88
	Stroke	mm	94
	Total displacement	cm ³	2300
TIMING			
	 start before T.D.C. end after B.D.C.	A	14°
		B	27°
	 start before B.D.C. end after T.D.C.	D	54°
		C	10°
	Checking timing	mm	-
	X	mm	-
	Checking operation	mm	0.20 to 0.30
	X	mm	0.45 to 0.55
FUEL FEED			
	Injection Type:	Bosch	high pressure common rail EDC16
	Nozzle type	Injectors	
	Injection sequence	1 - 3 - 4 - 2	
	Injection pressure	bar	1600

S23 ENT C Series engines			TECHNICAL CODE
	Type		FIAE048I*B...
	Compression ratio		18
	Maximum power	kW (HP)	85 (116)
		rpm	3000 ÷ 3900
	Maximum torque	kW (HP)	270 (27.5)
		rpm	1800 ÷ 2800
	Slow running of engine with no load	rpm	800
	Fast idling speed of engine with no load	rpm	4600
	Pressure at T.D.C.	*bar	20 ÷ 26
	Minimum permissible pressure at T.D.C.	*bar	16
	Bore x stroke	mm	88 x 94
	Displacement	cm ³	2300
	TURBOCHARGING		With intercooler
	Turbocharger type		KKK K03-2072-EDC 5.68
	Turbocharger shaft radial play		-
	Turbocharger shaft end float		-
	Maximum stroke of pressure relief valve opening	mm	3.5 ± 0.5
	Pressure corresponding to maximum stroke:	bar	1.5 ± 0.002
	LUBRICATION		forced by gear pump, pressure relief valve, oil filter with integral cartridge with total filtering
	Oil pressure with engine hot (100°C ± 5°C):		
	at idling speed	bar	≥ 0.6
	at top speed	bar	4
	COOLING		by centrifugal pump, thermostat for adjustment, coolant temperature, fan with electromagnetic coupling, radiator, heat exchanger
	Water pump control:		by belt
	Thermostat:		N. I.
	start of opening:		82 ± 2 °C

(*) The pressure is measured by setting the engine turning with the aid of just the starter motor, with an oil temperature of 40 – 50°C.



Data, features and performances are valid only if the setter fully complies with all the installation prescriptions provided by Iveco Motors.

Furthermore, the users assembled by the setter shall always be in conformance to couple, power and number of turns based on which the engine has been designed.

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