

CURSOR TIER 3 SERIES

Industrial application

C10

C10 ENT X

C13

C13 ENT X

CURSOR G-DRIVE

CURSOR 10 TE X

CURSOR 13 TE X

Technical and Repair manual

Part I

CURSOR ENGINES F3A

Section

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Overhaul and technical specifications	4
Tools	5
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PREFACE TO USER'S GUIDELINE MANUAL

Section 1 describes the F3A engine illustrating its features and working in general.

Section 2 describes the type of fuel feed.

Section 3 relates to the specific duty and is divided in four separate parts:

1. Mechanical part, related to the engine overhaul, limited to those components with different characteristics based on the relating specific duty.
2. Electrical part, concerning wiring harness, electrical and electronic equipment with different characteristics based on the relating specific duty.
3. Maintenance planning and specific overhaul.
4. Troubleshooting part dedicated to the operators who, being entitled to provide technical assistance, shall have simple and direct instructions to identify the cause of the major inconveniences.

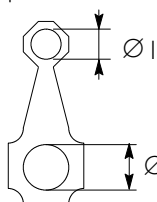
Sections 4 and 5 illustrate the overhaul operations of the engine overhaul on stand and the necessary equipment to execute such operations.

The appendix contains a list of the general safety regulations to be respected by all installation and maintenance engineers in order to prevent serious accidents taking place.

SPECIAL REMARKS

Diagrams and symbols have been widely used to give a clearer and more immediate illustration of the subject being dealt with, (see next page) instead of giving descriptions of some operations or procedures.

Example



Ø 1 = housing for connecting rod small end bush

Ø 2 = housing for connecting rod bearings



Tighten to torque

Tighten to torque + angular value

SYMBOLS - ASSISTANCE OPERATIONS

	Removal Disconnection		Intake
	Refitting Connection		Exhaust
	Removal Disassembly		Operation
	Fitting in place Assembly	$\varnothing$	Compression ratio
	Tighten to torque		Tolerance Weight difference
	Tighten to torque + angle value		Rolling torque
	Press or caulk		Rotation
	Regulation Adjustment		Angle Angular value
	Visual inspection Fitting position check		Preload
	Measurement Value to find Check		Number of revolutions
	Equipment		Temperature
	Surface for machining Machine finish		Pressure
	Interference Strained assembly	>	Oversized Higher than.... Maximum, peak
	Thickness Clearance	<	Undersized Less than.... Minimum
	Lubrication Damp Grease		Selection Classes Oversizing
	Sealant Adhesive		Temperature < 0 °C Cold Winter
	Air bleeding		Temperature > 0 °C Hot Summer
	Replacement Original spare parts		

UPDATING

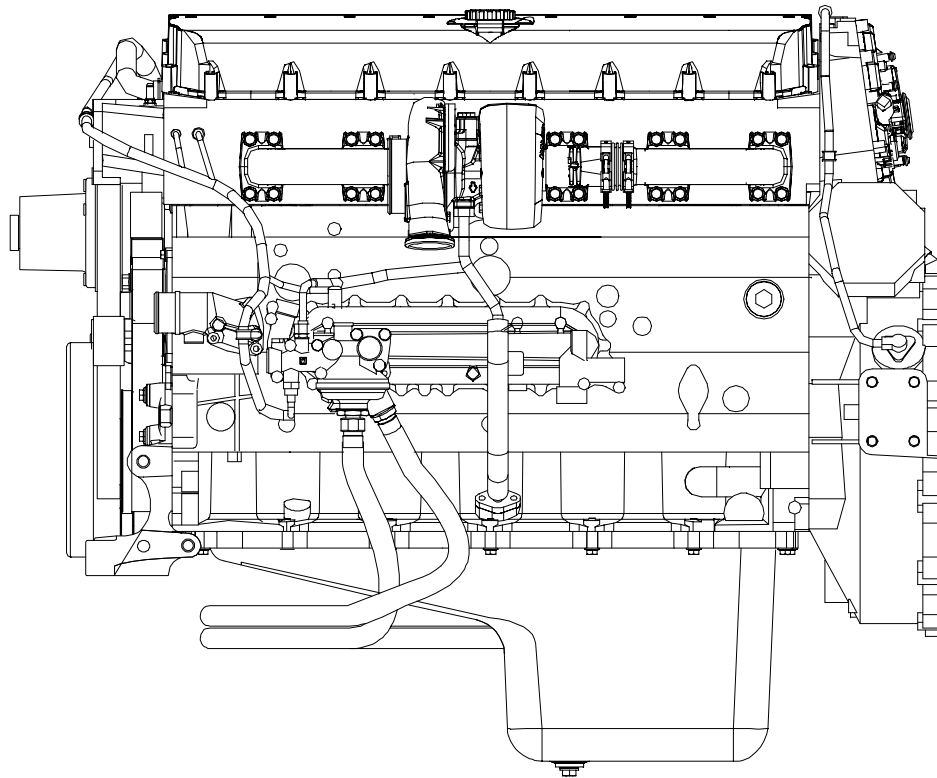
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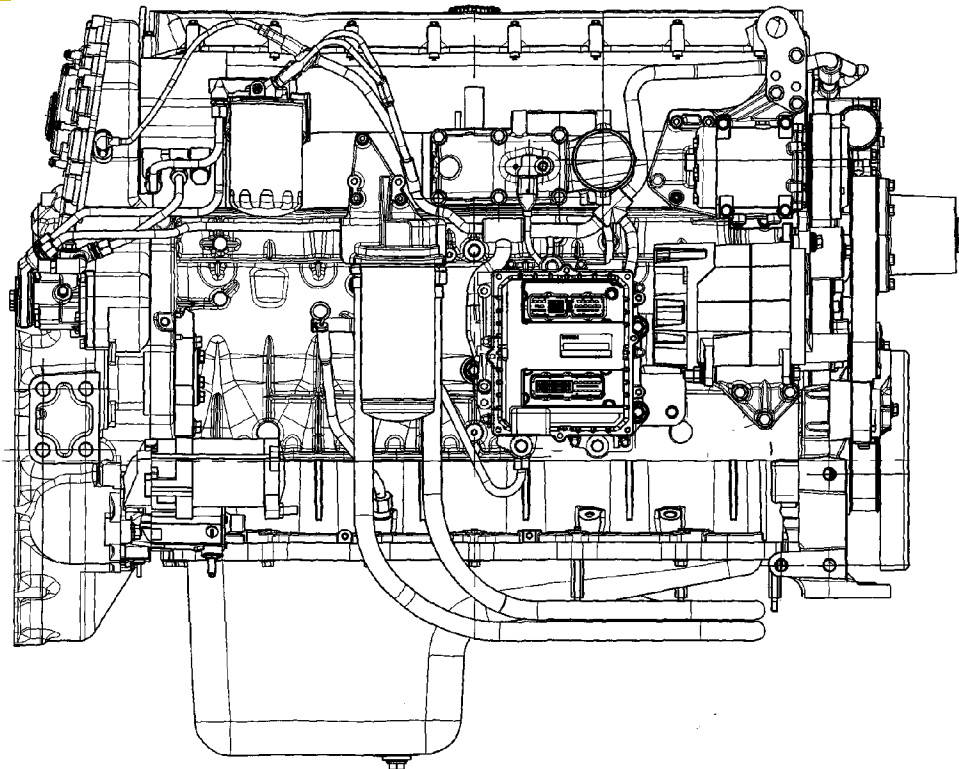
CORRESPONDENCE BETWEEN TECHNICAL AND COMMERCIAL CODES

Technical Code	Commerciale Code
F3AE0684P*E904	C10 ENT X
F3AE0684P*E906	
F3AE0684L*E906	
F3AE0684P*E905	
F3AE0684N*E907	
F3AE9687A*E00I	
F3AE9687B*E00I	
F3AE9687C*E00I	

VIEWS OF THE ENGINE (ONLY FOR TYPE F3AE0684P*E904)**Figure 1**

LEFT-HAND SIDE VIEW

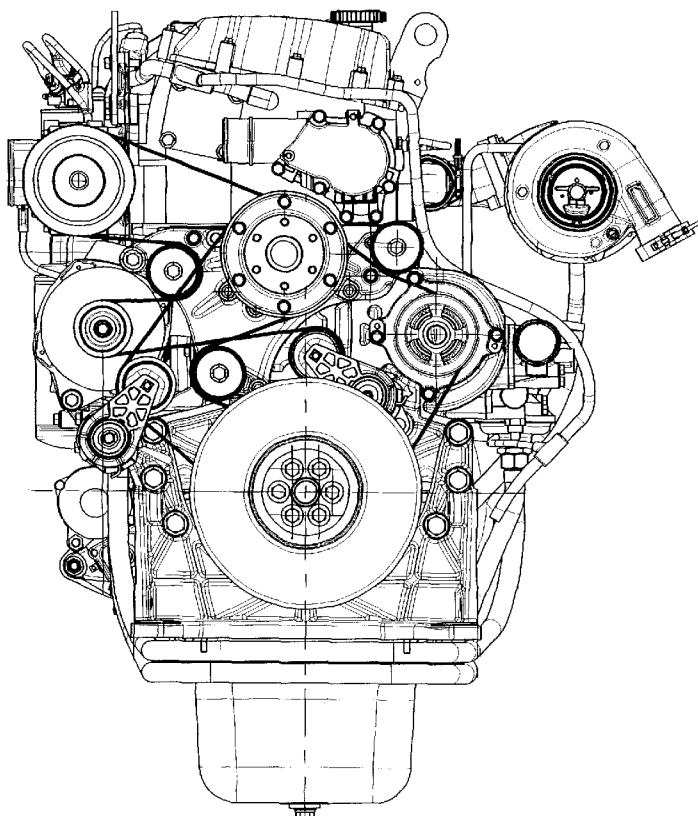
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Figure 2

RIGHT-HAND SIDE VIEW

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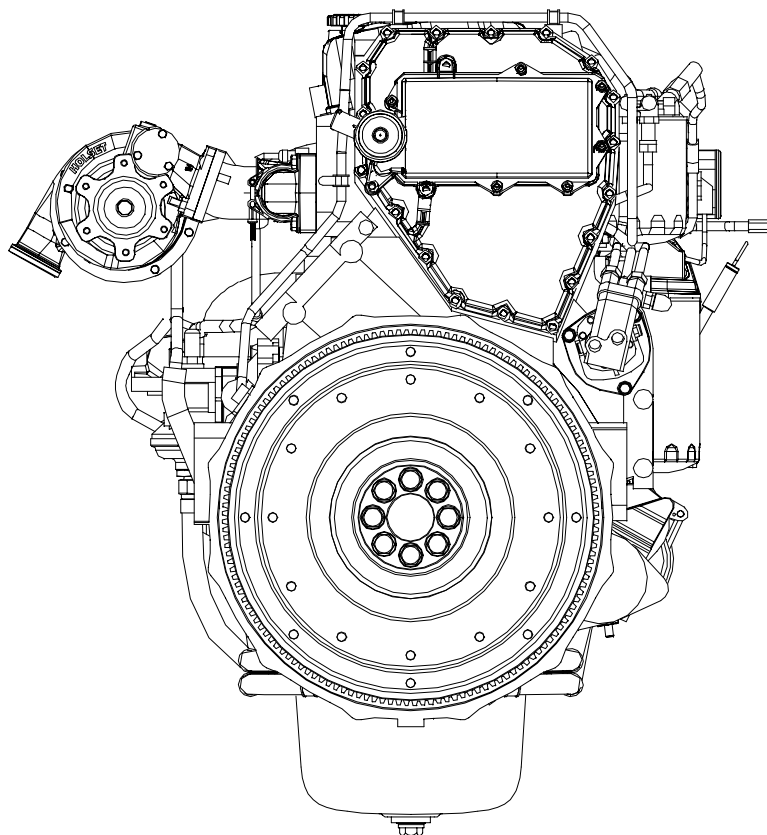
Figure 3



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FRONT VIEW

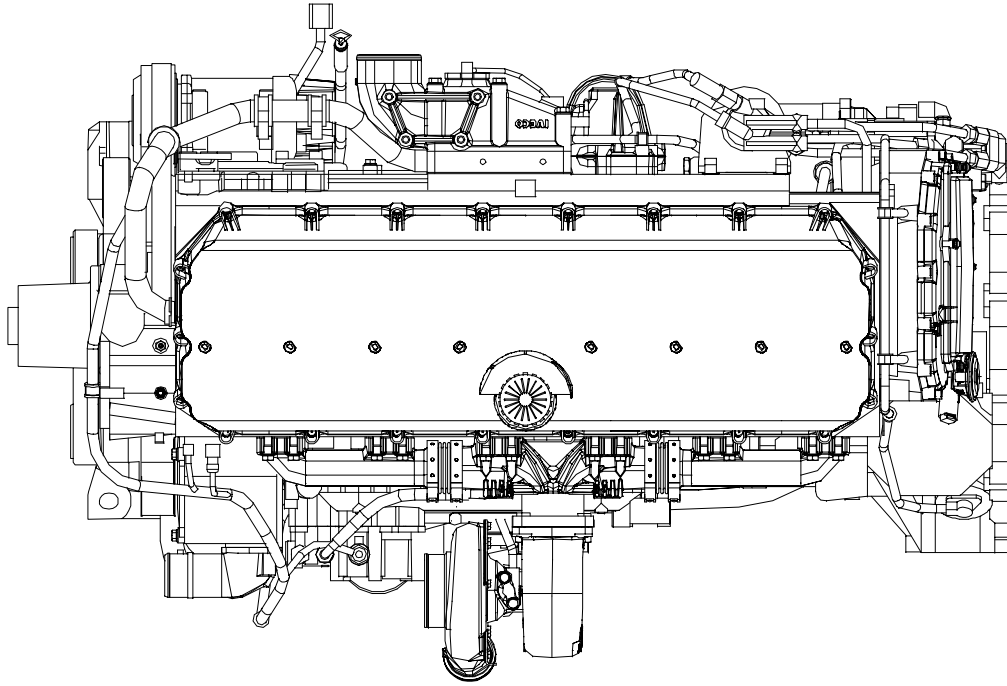
Figure 4



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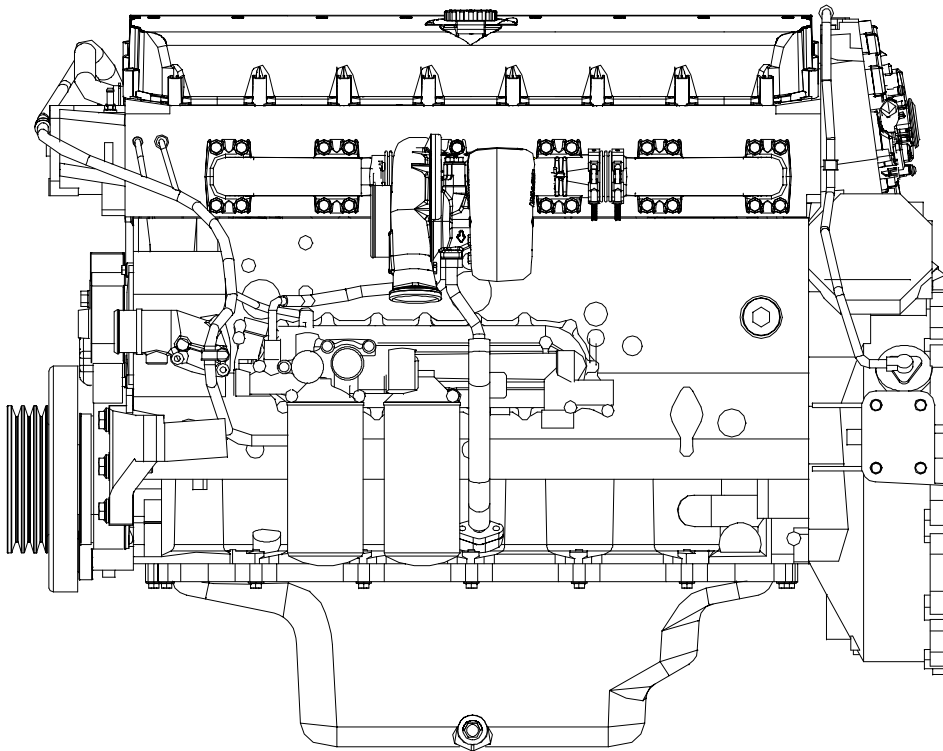
REAR VIEW

Figure 5



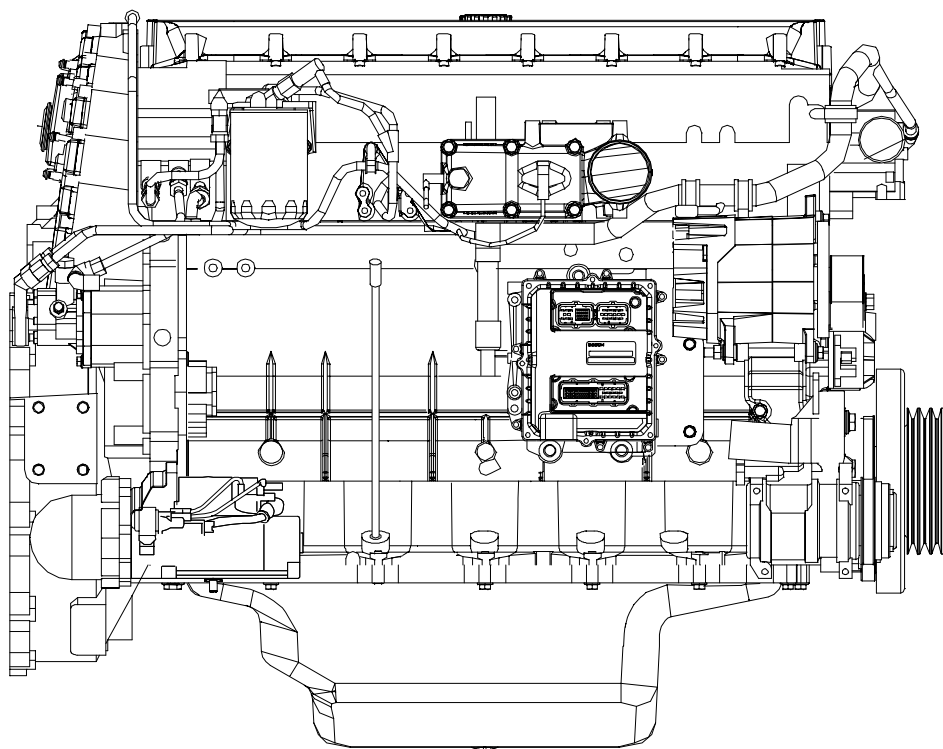
TOP VIEW

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VIEWS OF THE ENGINE (FOR TYPES: F3AE0684P*E906 - F3AE0684L*E906 - F3AE0684P*E905)**Figure 6**

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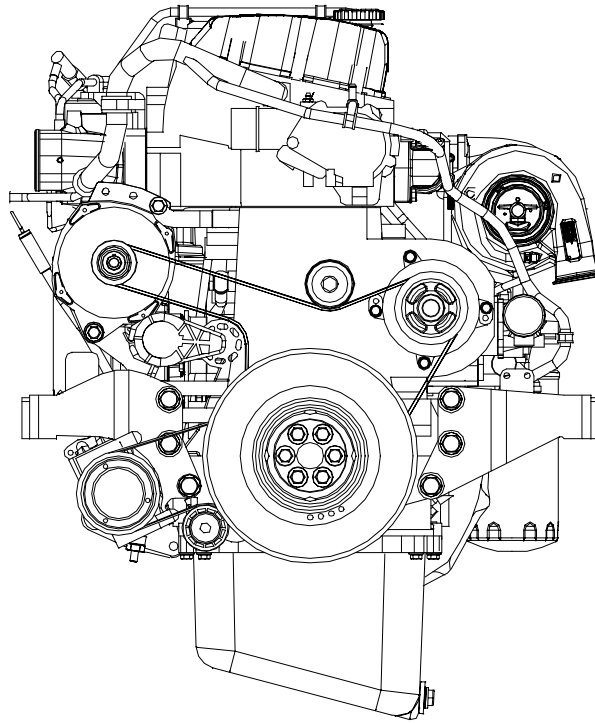
LEFT-HAND SIDE VIEW

Figure 7

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RIGHT SIDE VIEW

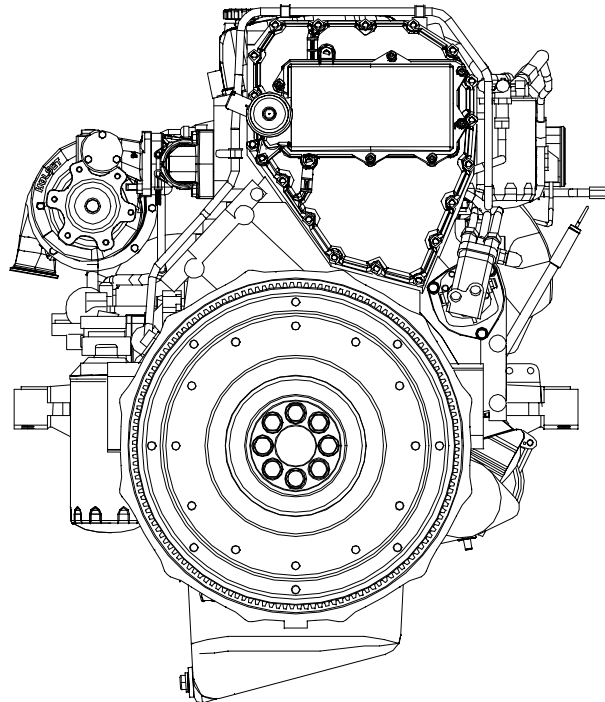
Figure 8



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FRONT SIDE VIEW

Figure 9



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REAR SIDE VIEW

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