



OPERATOR'S MANUAL

COMPACT CRAWLER EXCAVATOR

**CX27B
TIER 4**

APPLICABLE
PW13-33292~








READ, UNDERSTAND, AND FOLLOW ALL SAFETY PRECAUTIONS AND INSTRUCTIONS FOUND IN THIS MANUAL BEFORE OPERATING THE MACHINE.

CNH America, LLC reserves the right to make improvements in design or changes in specifications at any time without incurring any obligation to install them on units previously sold.

All data given in this publication is subject to production variations. Dimensions and weights are only approximate. Illustrations do not necessarily show products in standard condition. For exact information about any particular product, please consult your Dealer

This unit first became available 11-2008			
REVISION HISTORY			
Issue	Issue Date	Applicable Machines	Remarks
First Edition	01Nov 08	CX27B Tier 4 Compact Crawler Excavator	S2PV00033ZE01 NA

	<p>THIS SAFETY ALERT SYMBOL INDICATES IMPORTANT SAFETY MESSAGES IN THIS MANUAL. WHEN YOU SEE THIS SYMBOL, CAREFULLY READ THE MESSAGE THAT FOLLOWS AND BE ALERT TO THE POSSIBILITY OF DEATH OR SERIOUS INJURY.</p>
<p>Safety Decals on this machine use the words Danger, Warning, or Caution, which are defined as follows:</p> <ul style="list-style-type: none">● DANGER: Indicates an immediate hazardous situation that, if not avoided, will result in death or serious injury. The color associated with Danger is RED.● WARNING: Indicates a potentially hazardous situation that, if not avoided, could result in death or serious injury. The color associated with Warning is ORANGE.● CAUTION: Indicates a potentially hazardous situation which, if not avoided, may result in minor or moderate injury. It may also be used to alert against unsafe practices. The color associated with Caution is YELLOW. <p>If Safety Decals on this machine are ISO two panel Pictorial, decals are defined as follows:</p> <ul style="list-style-type: none">● The first panel indicates the nature of the hazard.● The second panel indicates the appropriate avoidance of the hazard.● Background color is YELLOW● Prohibition symbols such as   and  if used, are RED.	

 WARNING
<p>IMPROPER OPERATION OF THIS MACHINE CAN CAUSE DEATH OR SERIOUS INJURY. BEFORE USING THIS MACHINE, MAKE CERTAIN THAT EVERY OPERATOR:</p> <ul style="list-style-type: none">② Is instructed in safe and proper use of the machine.② Reads and understands the Manual(s) pertaining to the machine.② Reads and understands ALL Safety Decals on the machine.② Clears the area of other persons.② Learns and practices safe use of machine controls in a safe, clear area before operating this machine on a job site. <p>It is your responsibility to observe pertinent laws and regulations and follow instructions on machine operation and maintenance.</p>

CALIFORNIA PROPOSITION 65 WARNING
<p>Diesel engine exhaust and some of its constituents are known to the State of California to cause cancer, birth defects, and other reproductive harm.</p> <p>Battery post, terminals and related accessories contain lead and lead compounds. Wash hands after handling.</p>

TECHNICAL MANUALS

Manuals are available from your Dealer for the operation, service, and repair of your machine. Contact your Dealer for assistance in obtaining the manuals for your machine. Your Dealer can expedite your order for Operator's Manuals, Parts Catalogs, Service Manuals, and maintenance records. Always give the Machine Name, Model, and P. I. N. (Product Identification Number) or S. N. (Serial Number) of your machine so your Dealer can provide the correct manuals for your machine.

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GENERAL INFORMATION

TO THE OWNER

CX27B COMPACT CRAWLER EXCAVATOR

Your machine has been designed and built to the highest standards of quality. It conforms to all current safety regulations. The risk of accidents can never be completely excluded. That is why it is essential to observe elementary safety rules and precautions.

Read this manual carefully, paying particular attention to the instructions concerning safety, operation and maintenance so as to avoid the risk of injury while operating or servicing the machine.

The standard attachments and tools of this machine are designed to carry out all kinds of earth moving and rehandling operations. If you want to use this machine to handle a load (pipes, culverts, formwork, etc.), make sure that it is equipped to carry out this kind of work. For this type of application, the machine must be equipped with safety valves, a load handling chart corresponding to the type of machine and its attachment and a load fixing point. All legal requirements must also be strictly observed.

Do not use this machine for any application or purpose other than those described in this manual. If the machine is to be used for work involving the use of special attachments, accessories or equipment, consult your Case Construction, LLC Dealer in order to make sure that any adaptations or modifications made are in keeping with the machine's technical specifications and with prevailing safety requirements.

Any modification or adaptation which is not approved by the manufacturer may invalidate the machine's initial conformity with safety requirements.

The machine must undergo regular inspections, the frequency of which varies according to the type of use. Consult your Case Construction, LLC Dealer.

Before permitting a new operator on this machine, make sure:

That the operator has received the necessary training on how to operate the machine correctly and safely.

That the operator has read and understood the instructions given in this manual.

Contact your dealer for operator manuals translated into Spanish or French Canadian.

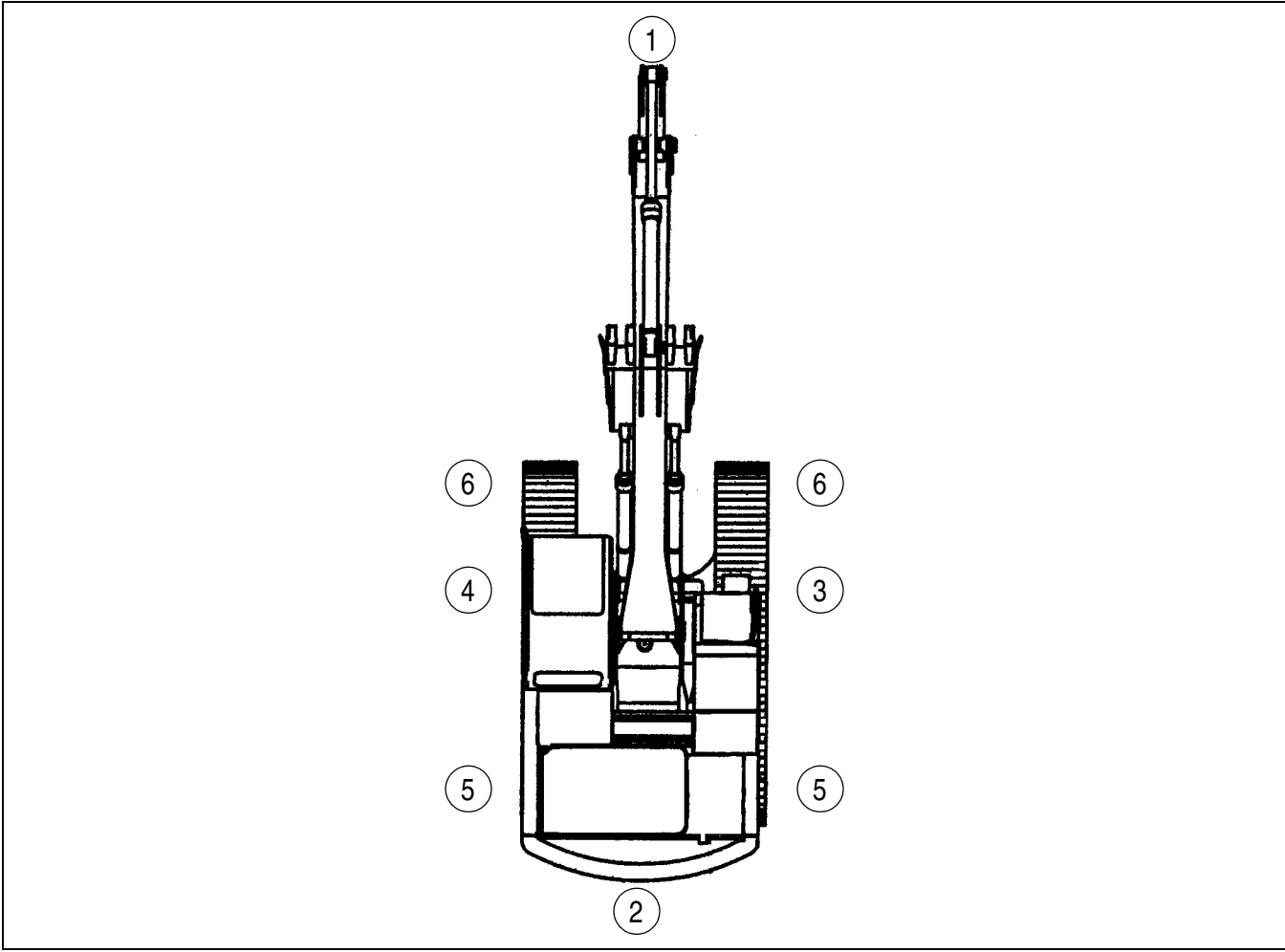
Always keep this manual in the operator's compartment (in the seat back, behind the operator's seat). Make sure it is complete and in good condition. If you wish to obtain extra copies, or copies in languages other than that of the country of use, consult your Case Construction, LLC Dealer.

Your Case Construction, LLC Dealer is available for any further information. They will also provide any after-sales service you may need, and genuine Case Construction, LLC spare parts, your guarantee of quality and match.

RIGHT, LEFT, FRONT, AND REAR OF THE MACHINE

The terms **Right-hand**, **Left-hand**, **Front**, and **Rear** are used in this manual to indicate the sides as they are seen from the operator's seat when the cab is over the idler wheels.

The following illustration shows the machine in normal **TRAVEL** position. In normal **TRAVEL** position, the cab is over the idler wheels. The travel reduction gears are at the rear of the upper structure.

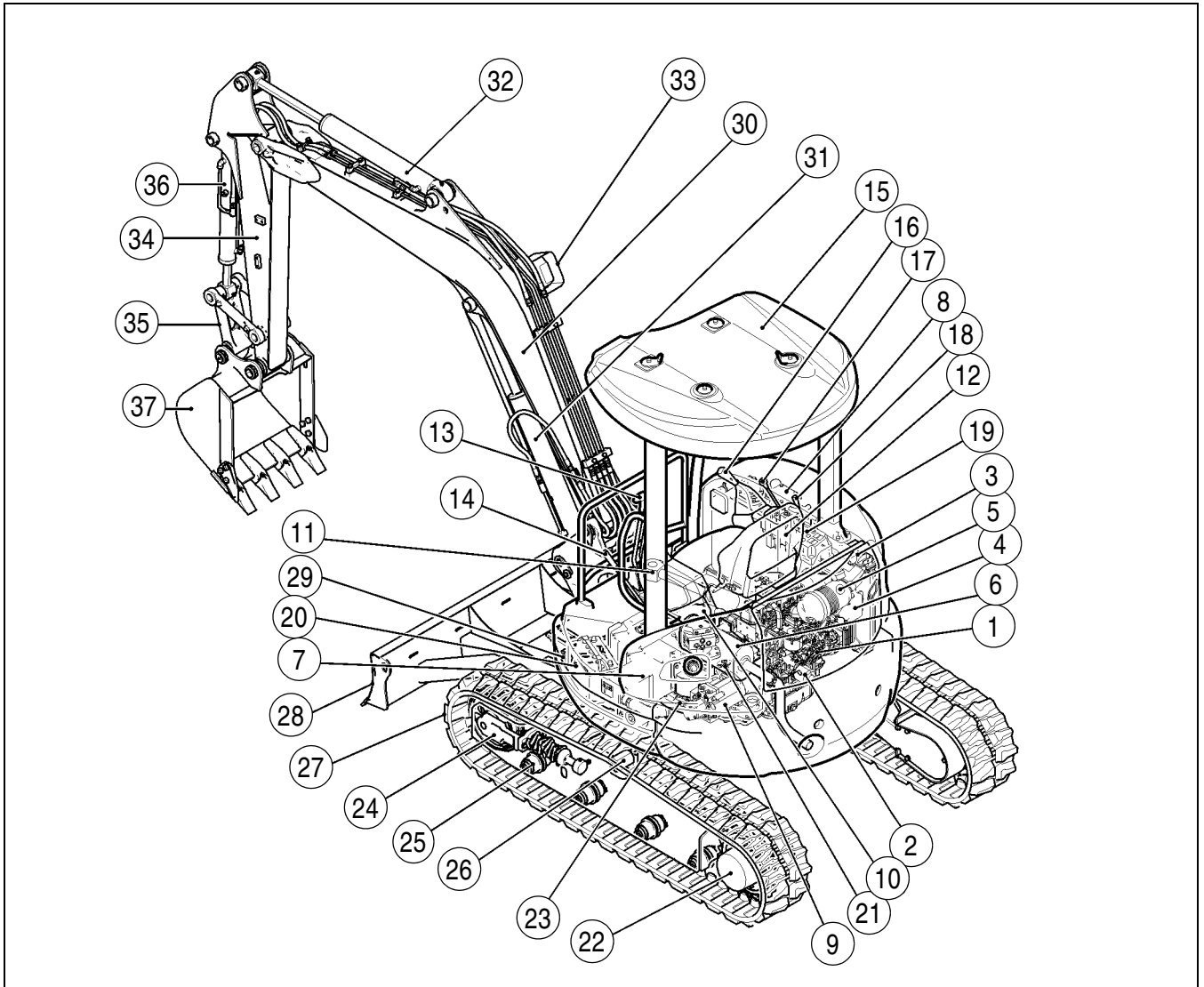


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Figure 1

- | | | |
|----------|--------------------|---|
| 1. FRONT | 3. RIGHT HAND SIDE | 5. TRAVEL REDUCTION GEARS (TRAVEL MOTORS) |
| 2. REAR | 4. LEFT HAND SIDE | 6. IDLER WHEELS |

MACHINE COMPONENTS



BS07M601

Figure 2

MACHINE COMPONENTS

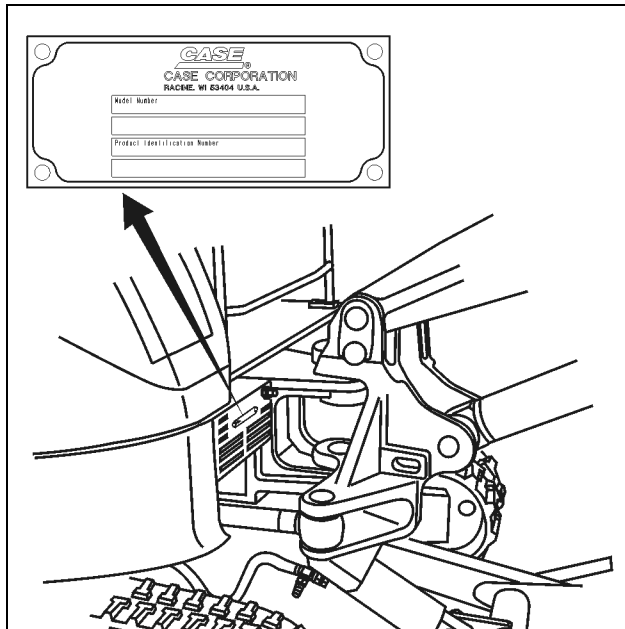
- | | | | |
|----------------------|-------------------------|-------------------------|---------------------|
| 1. MITSUBISHI ENGINE | 11. SWING CYLINDER | 21. SWIVEL JOINT | 31. BOOM CYLINDER |
| 2. OIL FILTER | 12. CONTROL VALVE | 22. TRAVEL MOTOR | 32. ARM CYLINDER |
| 3. RADIATOR | 13. TRAVEL LEVER | 23. SWING BEARING | 33. WORK LAMP |
| 4. RESERVOIR TANK | 14. SAFETY LOCK LEVER | 24. IDLER ASSEMBLY | 34. ARM |
| 5. AIR CLEANER | 15. CANOPY | 25. LOWER ROLLER | 35. LINK |
| 6. MUFFLER | 16. CONTROL LEVER | 26. UPPER ROLLER | 36. BUCKET CYLINDER |
| 7. FUEL TANK | 17. DOZER CONTROL LEVER | 27. RUBBER CRAWLER BELT | 37. BUCKET |
| 8. HYDRAULIC TANK | 18. THROTTLE LEVER | 28. DOZER BLADE | |
| 9. HYDRAULIC PUMP | 19. MONITOR PANEL | 29. DOZER CYLINDER | |
| 10. SWING MOTOR | 20. BATTERY | 30. BOOM | |

IDENTIFICATION NUMBERS

MODEL, SERIAL NUMBER, AND YEAR OF MANUFACTURE

When ordering parts, obtaining information or assistance, always supply your Case Construction, LLC Dealer with the type and serial number of your machine or accessories.

Write the following in the spaces below: The type, serial number and year of manufacture of your machine, accessories and the serial numbers of the various hydraulic and mechanical components.

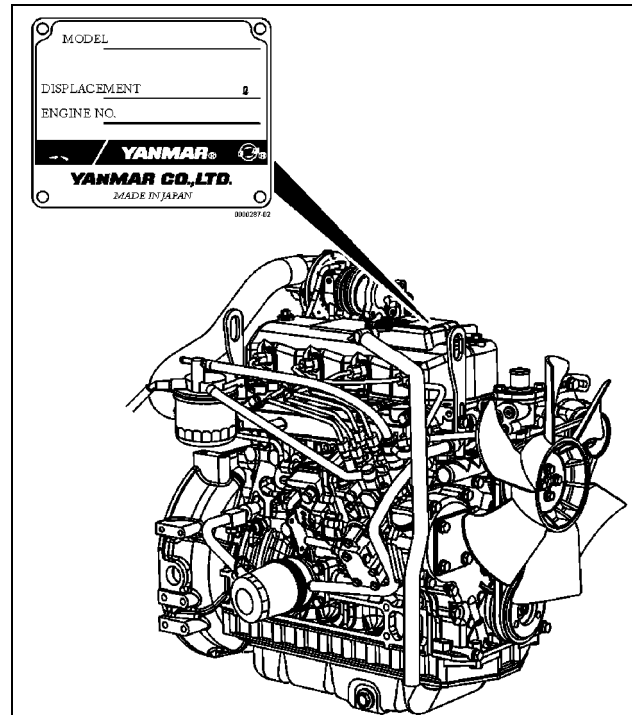


BS07N400

Figure 3

PRODUCT IDENTIFICATION PLATE	
➤ _____	Model
➤ _____	Serial Number
➤ _____	Manufacturing Year

ENGINE



BS07M603

Figure 4

ENGINE	
➤ _____	Make and Model
➤ _____	Serial Number

COMPONENT SERIAL NUMBERS

COMPONENT SERIAL NUMBERS	
➤ _____	Hydraulic Pump
➤ _____	Swing Reduction Gear
➤ _____	Travel Reduction Gears
➤ _____	Travel Control Valve
➤ _____	Attachment Control Valve
➤ _____	Swing Control Valve

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