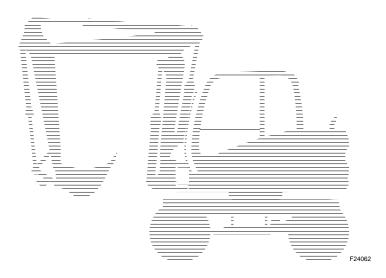
Case Wx95 Wx125 Excavator Shop Manual

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EXCAVATOR

WX95 WX125

SERVICE MANUAL



IMPORTANT:

Data contained in this manual was current at the time of publication. As the Manufacturer improves constantly his products, some information may result as not updated. If variances are observed, contact your Dealer and After-Sales Service.

CNH FRANCE S.A. - PRINT 9-91370 EN December 2004

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TO READER

- This manual has been printed for a skilful engineer to supply necessary technical information to carry out service operations on this machine.
 - Read carefully this manual to collect correct information relevant to repair procedures.
 - For any question or remark, or in case of any error relevant the contents of this manual, please contact :

CNHFRANCE Rue des Meuniers 60330 LE PLESSIS BELLEVILLE FRANCE

FURTHER REFERENCE

- Beyond this service manual, also refer to documents hereunder listed:
 - Operator's manual
 - Parts Catalogue

COMPOSITION OF COMPLETE HANDBOOK FOR INSTRUCTIONS AND REPAIRS

 The complete service manual consists of one volume:

WX95 - WX125 Service Manual "Excavator"

- The Service Manual for "Excavator" contains the necessary technical information to carry out service and repair on machine, necessary tools to carry out those operations and information on service standard, on procedures for connection, disconnection, disassembly and assembly of parts.
- The complete Service Manual relevant to the excavator models **WX95**, **WX125** consists of following volume, which can be identified through relevant print out no. as stated hereunder:

VOLUME	MACHINETYPE	PRINTNUMBER
- Service Manual - "Excavator"	WX95-WX125	9-91370

AVOID ACCIDENTS

The majority of accidents and injuries which occur in plants, in farms and at home or on roads, are caused by the non-observance of some simple and fundamental rules of precaution and safety. For this reason in the MAJORITY OF CASES THEY CAN BE AVOIDED: it is sufficient to foresee possible causes and to act according with the necessary precaution and care. With any type of machine, as much as good planned or built, it is impossible to absolutely avoid risks of accidents without involving negatively some essential features for a reasonable access and an efficient operation. Read carefully the indication and cautions of this manual contained in the SECTION "SAFETY PRECAUTIONS".

A careful and cautious operator is the best warranty against accidents. The careful observation of a single and elementary safety precautions would be enough to avoid many serious accidents. This precaution is: **Never attempt any cleaning, lubrication or maintenance operation when machine is moving.**



WARNING

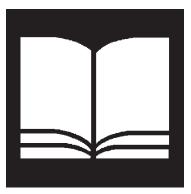
Before carrying out any maintenance operation, adjustment and or repair on machines equipped with attachments, controlled hydraulically or mechanically, make sure that the attachment is lowered and safely set on the ground. If in oder to get access to a machine part it is necessary to hold the attachment lifted, this should duly be supported by means that are not use to control the machine.

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INTRODUCTION

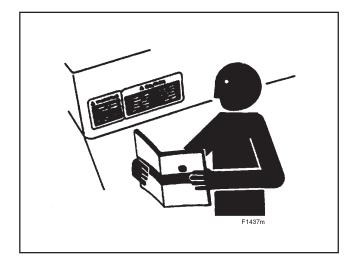
FOREWORD

This service manual has been prepared in order to increase repair quality, providing to the technicians the elements for a good knowledge of the product and showing the proper procedures to carry out the maintenance operations. We recommend to thoroughly read the content and follow it when necessary.

It is a concise guide. It covers construction features, operation principle, troubleshooting, disassembly and assembly of components and repair action.

Using this manual in systematic and rational way it is possible to reduce the repairing errors and delay that could cause machine stop with a detriment of cost management.

The information quoted in this service manual are supplied also to be used for training aids. Therefore it is advisable to be used in the training of new personnel that will be employed in the machine maintenance.



All the information, illustrations and specifications contained in this service manual are based on the latest product information available at the time of publication.

The Dealer reserves the right to makes changes at any time without notice to this service manual for technical or trading reasons.

MANUAL HANDLING

CHANGES AND SUPPLEMENTS

This service manual is carried out in loose-leaf and therefore can be easily kept up-to-date. The personnel in charge is responsible for updating the manual and will insert the changes or supplements that the Dealer will issue to its service organisation.

SYMBOLS AND INDICATIONS

In this service manual, symbols and indications are used to draw the attention on important points for safety and quality.

SAFETY

This safety symbol is used for important safety messages. When you see this symbol, be alert ffor the protection of your safety. Strictly follow the recommended precautions.



INDICATIONS

Reading this service manual you can find indications as **IMPORTANT** and **NOTE** that have the following meaning:

IMPORTANT

Indicates a situation which, if not avoided, could cause damages to the machine.

• NOTE

Indicates an additional explanation for further technical information.

FEATURES OF THE MANUAL

MANUAL COMPOSITION

This service manual consists of 10 sections, of which we indicate hereunder denomination and content concisely. For the service manual best use, it is essential to understand how it is organised. Therefore, in order to speed up the searching of the wished subjects, it is advisable to carefully read this chapter.



SECTION 1 - MAIN OPERATING RULES

Begin to read first this Section to know the manual composition. This will help you for subject searching.



SECTION 2 - SAFETY PRECAUTIONS

This section gives indication on how to avoid dangerous situation during the machine use and maintenance. Besides, in this section are listed the safety decals applied on the machine and their relevant indications.



SECTION 3 - FEATURES AND DATA This Section indicates the features and data of the machine.



SECTION 4 - SUPERSTRUCTURE

This section contains the information relevant to the operation principle of the systems, of the assemblies and of their components located on the machine upper frame. Besides, the assembly/disassembly procedures of the main devices are outlined.



SECTION 5 - UNDERCARRIAGE

This section contains the information relevant to the operation principle of the systems, of the assemblies and of their components located on the machine lower frame. Besides, the assembly/ disassembly procedures of main devices are outlined (axles, transmission, travels motor, etc.).



SECTION 6 - FRONT ATTACHMENT

This section describes the front attachment and its components and the maintenance rules with relevant disassembly/assembly operations.



SECTION 7 - HYDRAULIC SYSTEM

This Section describes the operation of the machine from hydraulic point of view.



SECTION 8 - ELECTRICAL SYSTEM

This Section describes the electric system of the machine, the main electrical components and the connection with the electrical users.



SECTION 9 - TROUBLESHOOTING

In this Section information is provided for troubleshooting to the hydraulic and electric systems and the necessary instruction to use the support equipment (test harnesses and test devices).



SECTION 10 - PERFORMANCE TEST Performance data and the procedures to detect data are provided in this section.

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BRIEF INFORMATION FOR MANUAL CONSULTATION

The manual is divided into section, each of them quotes a specific portion of the machine or specific related subject.

Some section (those related to main mechanical assembly) are divided into:

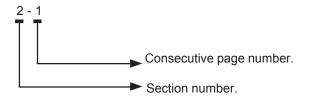
- Operation principle
- · Disassembly and assembly

In the operation principle, the assemblies and their components are described with technical data.

The disassembly and assembly sections describe the procedures to perform overhaul or repair operations with special tools and technical data.

Page numbers have the following meaning:

• for example:



NOTES:

WX95 WX125



SECTION 2

SAFETY PRECAUTIONS

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SAFETY PRECAUTIONS

GENERAL NOTES

Read the Operation and Maintenance Instruction Manual carefully before starting, operating, maintaining, fuelling or servicing the machine.

Carefully read the explanation to each and all safety signs in the special section of this Manual before starting, operating, maintaining, fuelling or servicing the machine.

Machine-mounted safety plates are colour coded yellow with black borders when they refer to points where special **ATTENTION** must be paid and failure to observe them may cause a serious **DANGER** to the integrity of machine operators.

They are white with red borders and black lettering when they refer to a **FORBIDDEN** practice.

It is fundamental that all machine operators know very well the meaning of each safety plate as this considerably decreases operating hazards and accidents.

Do not allow unauthorised personnel to operate or service this machine.

Do not wear rings, wrist watches, jewellery, loose or hanging garments, such as ties, torn clothing, scarves, unbuttoned or unzipped jackets that can get caught in moving parts. Wear certified safety clothes such as: hard hat, no-slip footwear, heavy gloves, ear protection, safety glasses, reflector vests, respirators every time the job requires it.

Ask your employer about safety regulations in force and protective equipment.

Always keep the operator's compartment, step plates, grab-rails and handles clean and clear of foreign objects, oil, grease, mud or snow to minimise the danger of slipping or stumbling. Remove mud or grease from your shoes before operating the machine.

Do not jump on or off the machine. Always keep both hands and one foot, or both feet and one hand in contact with steps and/or grab rails.

Do not use controls or hoses as hand holds. Hoses and controls are movable parts and do not provide solid support. Besides, controls may be inadvertently moved and cause unexpected movement of the machine or its attachments.

Never operate the machine or its attachments from any position other than sitting in the driver's seat. Keep head, body, limbs, hands and feet inside the operator's compartment at all times to reduce exposure to external hazards.

Be careful of possible slippery conditions of the steps and hand rails as well as of the ground around the machine. Wear protective boots or shoes with the soles made of highly no-slip rubber.

Do not leave the machine until it has come to a complete stop.

Always check height, width and weight limitations which may be encountered in the working site and ensure the machine does not exceed them.

Assess exact paths of gas ducts, water mains, telephone lines, sewers, overhead and underground electric lines and all other possible obstacles.

Such paths should be opportunely defined by competent Authorities. If necessary, require that the service is interrupted or said installations are moved prior to starting the work.

You must know the working capacity of the machine. Define the rear superstructure swing area and provide for opportune barriers to prevent access into it.

Never exceed machine lifting capacity.

Remain within the limits shown in the loading capacity chart located on the machine.

START UP

Never start up or set in motion a failed machine. Before getting on, walk around the machineto inspect it. Before operating the machine, make sure that any possible dangerous condition has been properly removed.

Before starting machine, check that steering and attachment controls are in the neutral position and the safety lever is in the LOCK position.

Immediately report any malfunction of parts or systems to the maintenance managers for proper action. Prior to starting the engine, check, adjust and lock the driver's seat for maximum riding comfort and control accessibility.

Prior to operating the machine and/or its attachments, check that bystanders are outside the machine operating range. Sound horn.

Obey all hand signals, safety indications and signs. Due to the presence of flammable fluids, never check fuel level, refuel, charge the batteries or use the starting fluid in the presence of smoking materi-

als, open flames or sparks. Ensure that nobody is within the excavator operating area before starting the machine, swinging the upper structure or moving in any direction.

Adjust all rear-view mirrors for maximum visibility of the area behind the machine.

Ensure that engine speed is appropriate to the job to be carried out.

If any hydraulic control or system exhibits erratic performance or responds abnormally, have the machine checked for air in the system.

Air in these circuits may cause incorrect movements with consequent accident hazard.

Refer to the Operation and Maintenance Instruction Manual about corrective action to be taken. SAFETY PRECAUTIONS

OPERATION

Do not run the engine of this machine in closed buildings without proper ventilation capable to remove harmful exhaust gases which concentrate in the air.

Keep the driver's seat free from foreign objects, especially if these are not secured. Never use the machine to transport objects, unless proper securing points are provided.

Do not carry riders on the machine.

Study and familiarise with escape routes alternative to normal exit routes.

For your personal safety, do not climb on or off the machine while it is in motion.

Make sure that bystanders are clear of the machine operating range before starting the engine and operating the attachment. Sound horn.

Obey all hand signals, safety indications and signs. When backing, always look to where the machine is

to be moved.

Be alert of the position of bystanders. Should someone enter the work area, stop the machine.

Maintain a safe distance from other machines or obstacles to ensure required visibility conditions.

Always give way to loaded machines.

Maintain a clear vision of the surroundings of the travel or work area at all times.

Keep cab windows clean and repaired.

When pulling loads or towing through a cable or chain, do not start suddenly at full throttle. Take-up slack carefully. Avoid kinking or twisting chains or cables.

Carefully inspect cables or chains for flaws or problems before proceeding.

Do not pull through a kinked chain or cable as the high anomalous stresses existing in this condition may induce failures in the kinked portion. Always wear heavy gloves when handling chains or cables.

Chains and cables should be securely anchored using suitable hooks. Anchor points should be strong enough to withstand the expected load.

Keep anyone clear of anchor points and cables or chains. Do not pull or tow unless the operator's compartments of the machines involved are properly protected against possible backlash in case of cable or chain failure or detachment.

Be alert of soft ground conditions close to newly constructed walls. The fill material and machine weight may cause the wall to collapse under the machine.

In darkness, check area of operation carefully before moving in with the machine. Use all lights provided. Do not move into low visibility areas.

If the engine tends to slow down and stall for whatever reason under load or at idle, immediately report this problem to the maintenance managers for proper action. Do not operate the machine until this condition is corrected.

Regularly check all exhaust system components, as exhaust fumes are toxic for the operator.

Operators must know the performance of the machine they are driving.

When working on slopes or near sudden level drops in the terrain, pay attention not to lose adherence and avoid loose soft ground since overturn or loss of machine control could result.

If noise level is high and exceeds 90 dB(A) over 8 hours at the operator's ear, wear approved ear protection in compliance with local regulations.

Do not operate the machine if you are extremely tired or feel ill.

Be especially careful towards the end of the working shift.

Where removable counterweights are provided, do not operate the machine if they have been removed.

When operating the machine, keep in mind height limits of overhead doors, arches, overhead cables and lines as well as width limits of corridors, roads and narrow passages. Also, get to know load limits of the ground and paving type of the ramps you are to work on.

Beware of fog, smoke or dust that obscure visibility. Check constantly the work areas to find out the dangerous points. Some examples of dangerous work areas are: inclines, overhangs, trees, demolition rubble, fires, ravines, steep slopes, rough terrain, ditches, crowns, ridge trenches, diggings in traffic areas, crowded parking lots, crowded service areas, fenced zones. In such conditions, proceed with extreme care.

Whenever possible, avoid crossing over obstacles such as very rough terrain, rocks, logs, steps, ditches, railroad tracks. When obstructions must be crossed, do so with extreme care and at a square angle, if possible.

Slow down. Ease up to the break-over point, pass the balance point slowly and ease down the other side also using the attachment, if necessary.

To overcome deep trenches or sinking ground, place the machine perpendicular to the obstacle, drastically reduce ground speed and start crossing using also the attachment if necessary, only after assessing that ground conditions allow the traverse safely and without risks.

The gradient you may attempt to overcome is limited by factors such as ground conditions, load being handled, machine type and speed, and visibility.

There is no substitute for good judgement and experience when working on slopes. Avoid operating the attachment too close to an overhang or high wall, either above or below the machine. Beware of caving edges, falling objects and landslides.

Remember that such hazards are likely to be concealed by bushes, undergrowth and such.

Avoid faggots, bushes, logs and rocks. Never drive over them, nor over any other surface irregularities that discontinue adherence or traction with the ground, especially near slopes or drop-offs.

Be alert to avoid changes in adherence conditions

SAFETY PRECAUTIONS

that could cause loss of control. **Work with extreme care** on ice or frozen ground and on stepped slopes or near drop-offs.

The word "bulldozing" generally refers to work in virgin rough terrain, characterised by the presence of all the perils and risks listed above. We emphasise the danger represented in these conditions by large tree limbs and large roots, which may act as a leverage under the machine when up-rooted and cause their overturn. Position the machine according to the loading and unloading areas in order to slew leftwards to load and to obtain best visibility.

Never use the bucket or attachment to lift persons or carry riders on the machine.

Never use the machine as a work platform or scaffolding. The machine must not be improperly used for works not consistent with its features (such as pushing railway cars, trucks or other machines).

Always pay attention to people within the machine operating range.

Never move or stop the bucket, other loads or the attachment above ground personnel or truck cabs.

Before loading a truck make sure that the driver finds a safe place. Load trucks from side or rear. Use only the type of bucket recommended considering machine type, materials to be handled, material piling up and loading characteristics, ground type and other typical conditions of the work to be performed. When travelling with a loaded bucket, keep it as rolled-back as possible.

Ground speed should be adequate to the load and ground conditions. The load must always be properly arranged in the bucket. Move with extreme care when transporting oversize loads.

Do not lift and move the bucket overhead where persons are standing. When working on slopes avoid travelling with bucket downhill because this could reduce the machine stability. Load the bucket from uphill side. Loads to be raised using the machine should be exclusively hooked to the hitch specially provided.

The excavator is no lifting and transportation means, therefore it should not be used to position loads accurately. Should it be exceptionally used to lift and lay building components, special caution must be taken as follows:

- The machine should necessarily be equipped with the special option supplied by Dealer. Besides, follow carefully safety rules for the excavator used as lifting means.
- Secure the loads to be raised using cables or chains fastened with appropriate hooking mechanisms.
- Nobody should be allowed to remain under the raised load or within the excavator operating range for any reason whatever.

Never exceed specified loading capacity. Incorrect fastening of slings or chains may cause boom/arm failure or failure of the lifting means with consequent bodily injuries and even death. Always ensure that slings and chains used for lifting are adequate to the load and in good condition.

All loading capacities are referred to the machine on a level surface and should be disregarded when working on a slope.

Avoid travelling across slopes. Proceed from uphill downhill and vice-versa.

If machine starts slipping sideways when on a slope, lower the bucket and thrust bucket teeth into the ground.

Working on slopes is dangerous. Grade the working area if possible. Reduce work cycle time if it is not possible to grade the working area.

Do not move full bucket or a load from uphill downhill as this would reduce machine stability.

Do not work with the bucket turned uphill as counterweights protruding downhill would reduce machine stability on the slope and increase risk of overturning. We recommend to work on slopes with the bucket downhill, after checking machine stability with the bucket empty and attachment retracted, by slowly swinging the upper structure by 360°.

Position the carriage at a right angle relative to slopes, hanging walls, etc. to exit the working area easily. Be aware when the upperstructure is turned by 180°, steering and travel controls are reversed.

Properly judge ground conditions with particular attention to consistency of the area you are going to work on. Keep the machine sufficiently far from the digging border.

Never dig under the machine.

Should it be necessary to dig under the machine, always ensure that digging walls are opportunely propped up against landslide to prevent the machine from falling into the trench.

Do not slew the upper structure, raise the load or brake abruptly if not required. This may cause accidents.

Prior to beginning the work near gas distribution mains or other public utilities:

- Contact the Company Owner of the gas mains or its nearest branch before starting the work. Look up the number in the telephone directory.
- Define together which precautions should be taken to guarantee work safety.
- Decrease work speed. Reaction time could be too slow and distance evaluation wrong.
- When working near gas mains or other public utilities installations, appoint a person in charge of signalling duties. This person will have the responsibility of observing the machine, any part of it and/or the load approaching the electric line from a better standpoint with respect to the Operator's position. This signal-man shall directly communicate with the Operator and the Operator must pay special attention to any signals supplied.
- The gas distributing Company, if previously advised and involved in the work, as well as machine Operator, Owner and/or any natural person or legal entity

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SAFETY PRECAUTIONS

having rent or leased the machine or being responsible at the time by contract or by law, are liable for the adoption of the necessary precautions.

Working near electric lines can be very dangerous, therefore some special precautions must be observed. Within this Manual, "work near electric lines" means when the attachment or load raised by the excavator (in any position) may reach the minimum safety distance established by local or international Safety Regulations.

To work without risks, keep maximum possible distance from electric lines and never trespass minimum safety distance.

Ensure that local or national safety regulations concerning work near electric lines are observed.

Prior to beginning the work near electric lines:

- Contact the Company Owner of the electric lines or its nearest branch before starting the work. Look up the in the telephone directory.
- Define together with the Company representative which precautions should be taken to guarantee work safety.
- All electric lines should be considered as operative live lines even though it might be well known that the line in question is out of work and visibly connected to the ground.
- The Electric Power Company, if previously advised and involved in the work, as well as machine Operator, Owner and/or any natural person or legal entity having rent or leased the machine or being responsible at the time by contract or by law, are liable for the adoption of the necessary precautions.
- Decrease work speed. Reaction time could be too slow and distance evaluation wrong.
- Warn all ground personnel to keep clear of the machine and/or load at all times. If the load has to be guided down for laying, consult the Electric Power Company to know which precautions should be taken.
- Appoint a person in charge to signal instructions. This person will have the responsibility of observing the machine, any part of it and/or the load approaching the electric line from a better standpoint with respect to the Operator's position. This signalman shall directly communicate with the Operator and the Operator must pay special attention to any signals supplied.

When working in or near pits, in ditches or very high walls, check that the walls are sufficiently propped up to avoid cave-in hazards.

Pay the utmost attention when working near overhang walls or where landslides may take place. Make sure that the support surface is strong enough to prevent landslides.

When digging, there is the risk of cave-ins and land-slides.

Always check ground conditions and conditions of the material to be removed. Support everywhere it is required to prevent possible cave-ins or landslides when:

- When digging near recently formed trenches filled with filling materials.
- · When digging in bad ground conditions.
- When digging trenches subject to vibration from railroads, working machines or highway traffic.

STOP

When the machine is to be stopped for whatever reason, always check that all controls are in the neutral position and that the safety lever is on the lock position to guarantee risk-free start-up.

Never leave the machine unattended with the engine running.

Before leaving the driver's seat and after ensuring noone is near the machine, slowly lower the attachment until it rests safely onto the ground. Move possible additional tools in the safe retracted position. Check that all controls are in the neutral position. Move engine controls to the shut-down position. Switch off the keystart switch. Consult the Operation and Maintenance Instruction Manual.

Park the machine in a non-operating and no-traffic area. Park on firm level ground. If this is not possible, position the machine at a right angle to the slope, making sure there is no danger of uncontrolled sliding.

If parking in traffic lanes cannot be avoided, provide prescribed danger signals such as: flags, barriers, flares and other signals. Moreover arrange further danger signals on traffic lane so as to adequately warn the oncoming drivers.

Always switch off the key-start switch before cleaning, repairing or servicing, or parking the machine to prevent accidental unauthorised start-up.

Never lower the attachment or auxiliary tools other than from sitting in the operator's seat. Sound horn. Make sure that nobody is within the machine operating range. Lower the attachment slowly.

Securely block and lock the machine every time you leave it unattended. Return keys to the safe place previously agreed upon.

Perform all necessary operations for stopping as detailed in the Operation and Maintenance Instruction Manual.

Drive the machine far from pits, trenches, rocky hanging walls, areas with overhead electric lines, and slopes before stopping it at the end of the working day.

Align the upperstructure to the tracks in order to allow to easily get on and off the driver's compartment.

Move all controls to the position specified for machine stopping. Refer the Operation and Maintenance Instruction Manual.

Never park on an incline without accurately blocking the machine to prevent unexpected movement.

Always follow stopping instructions contained in the Operation and Maintenance Instruction Manual.