

FARMALL® 80N
FARMALL® 80V
FARMALL® 90N
FARMALL® 90V
FARMALL® 100N
FARMALL® 100V
FARMALL® 110N
FARMALL® 110V
Tier 4A (interim)
Tractor

SERVICE MANUAL

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SERVICE MANUAL

Farmall® 100N With cab [ZGLL03072 -], Farmall® 100N Without cab [ZGLL04308 -], Farmall® 100V With cab, Farmall® 100V Without cab, Farmall® 110N With cab [ZGLL03153 -], Farmall® 110N Without cab [ZGLL03317 -], Farmall® 110V With cab [ZGLL03383 -], Farmall® 110V Without cab [ZGLL03058 -], Farmall® 80N With cab [ZGLL02982 -], Farmall® 80N Without cab [ZGLL03560 -], Farmall® 80V With cab [ZGLL03152 -], Farmall® 80V Without cab [ZGLL03079 -], Farmall® 90N With cab, Farmall® 90N Without cab, Farmall® 90V With cab, Farmall® 90V Without cab

Link Product / Engine

Product	Market Product	Engine
Farmall® 100N With cab [ZGLL03072 -]	North America	F5DFL413K*A010
Farmall® 100N Without cab [ZGLL04308 -]	North America	F5DFL413K*A010
Farmall® 110N With cab [ZGLL03153 -]	North America	F5DFL413J*A011
Farmall® 110N Without cab [ZGLL03317 -]	North America	F5DFL413J*A011
Farmall® 80N With cab [ZGLL02982 -]	North America	F5DFL413A*E009
Farmall® 80N Without cab [ZGLL03560 -]	North America	F5DFL413A*E009
Farmall® 90N With cab	North America	F5DFL413L*A007
Farmall® 90N Without cab	North America	F5DFL413L*A007
Farmall® 100V With cab	North America	F5DFL413K*A010
Farmall® 100V Without cab	North America	F5DFL413K*A010
Farmall® 110V With cab [ZGLL03383 -]	North America	F5DFL413J*A011
Farmall® 110V Without cab [ZGLL03058 -]	North America	F5DFL413J*A011
Farmall® 80V With cab [ZGLL03152 -]	North America	F5DFL413A*E009
Farmall® 80V Without cab [ZGLL03079 -]	North America	F5DFL413A*E009
Farmall® 90V With cab	North America	F5DFL413L*A007
Farmall® 90V Without cab	North America	F5DFL413L*A007

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INTRODUCTION

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(*) See content for specific models

Foreword - Important notice regarding equipment servicing

All repair and maintenance work listed in this manual must be carried out only by qualified dealership personnel, strictly complying with the instructions given, and using, whenever possible, the special tools.

Anyone who performs repair and maintenance operations without complying with the procedures provided herein shall be responsible for any subsequent damages.

The manufacturer and all the organizations of its distribution chain, including - without limitation - national, regional, or local dealers, reject any responsibility for damages caused by parts and/or components not approved by the manufacturer, including those used for the servicing or repair of the product manufactured or marketed by the manufacturer. In any case, no warranty is given or attributed on the product manufactured or marketed by the manufacturer in case of damages caused by parts and/or components not approved by the manufacturer.

The manufacturer reserves the right to make improvements in design and changes in specifications at any time without notice and without incurring any obligation to install them on units previously sold. Specifications, descriptions, and illustrative material herein are as accurate as known at time of publication but are subject to change without notice.

In case of questions, refer to your CASE IH Sales and Service Networks.

Note to the Owner WARNINGS FOR AIR CONDITIONING SYSTEM REPAIR OPERATIONS

Farmall® 100N With cab [ZGLL03072 -]	
Farmall® 100V With cab	
Farmall® 110N With cab [ZGLL03153 -]	
Farmall® 110V With cab [ZGLL03383 -]	
Farmall® 80N With cab [ZGLL02982 -]	
Farmall® 80V With cab [ZGLL03152 -]	
Farmall® 90N With cab	
Farmall® 90V With cab	

Starting the system at low temperatures can damage the compressor. Only operate the air conditioner when the engine is hot and the temperature inside the cab is at least **20 °C (68.00 °F)**.

When disconnecting the hoses, close the ends with plastic caps to prevent foreign matter and humidity from getting inside the hoses.

Handle the thermostatic sensor carefully to avoid damage that may prevent efficient system operation.

Always use two spanners to unscrew the hose fittings to avoid twisting the fitting.

Do not use any type of engine oil to lubricate the compressor and the system.

Never leave the compressor oil container open, always make sure that it is tightly closed. If left exposed the oil will absorb humidity from the air and may, subsequently, damage the system.

Do not transfer compressor oil from the original container to another container.

Do not introduce any additives to the compressor oil. Any additional substances could contain elements which are incompatible with the chemical base of the refrigerant and thus alter its characteristics.

Check that the thermostatic sensor is correctly inserted in the fins on the evaporator to ensure efficient system operation.

Safety rules

Personal safety



This is the safety alert symbol. It is used to alert you to potential personal injury hazards. Obey all safety messages that follow this symbol to avoid possible death or injury.

Throughout this manual you will find the signal words DANGER, WARNING, and CAUTION followed by special instructions. These precautions are intended for the personal safety of you and those working with you.

Read and understand all the safety messages in this manual before you operate or service the machine.

 DANGER indicates a hazardous situation that, if not avoided, will result in death or serious injury.

 WARNING indicates a hazardous situation that, if not avoided, could result in death or serious injury.

 CAUTION indicates a hazardous situation that, if not avoided, could result in minor or moderate injury.

FAILURE TO FOLLOW DANGER, WARNING, AND CAUTION MESSAGES COULD RESULT IN DEATH OR SERIOUS INJURY.

Machine safety

NOTICE: Notice indicates a situation that, if not avoided, could result in machine or property damage.

Throughout this manual you will find the signal word Notice followed by special instructions to prevent machine or property damage. The word Notice is used to address practices not related to personal safety.

Information

NOTE: Note indicates additional information that clarifies steps, procedures, or other information in this manual.

Throughout this manual you will find the word Note followed by additional information about a step, procedure, or other information in the manual. The word Note is not intended to address personal safety or property damage.

Safety rules SAFETY REGULATIONS

TO PREVENT ACCIDENTS

Most accidents or injuries that occur in workshops are the result of non-observance of simple and fundamental safety regulations.

For this reason, IN MOST CASES THESE ACCIDENTS CAN BE AVOIDED: by foreseeing possible causes and consequently acting with the necessary caution and care.

Accidents may occur with all types of vehicle, regardless of how well it was designed and built.

A careful and judicious service technician is the best guarantee against accidents.

Precise observance of the most basic safety rule is normally sufficient to avoid many serious accidents.

DANGER: Never carry out any cleaning, lubrication or maintenance operations when the engine is running.

GENERAL

- Carefully follow specified repair and maintenance procedures.
- Do not wear rings, wristwatches, jewellery, unbuttoned or loose articles of clothing such as: ties, torn clothing, scarves, open jackets or shirts with open zips that may remain entangled in moving parts.
It is advised to wear approved safety clothing, e.g: non-slip footwear, gloves, safety goggles, helmets, etc.
- Do not carry out repair operations with someone sitting in the driver's seat, unless the person is a trained technician who is assisting with the operation in question.
- Operate the vehicle and use the implements exclusively from the driver's seat.
- Do not carry out operations on the vehicle with the engine running, unless specifically indicated.
- Stop the engine and ensure that all pressure is relieved from hydraulic circuits before removing caps, covers, valves, etc.
- All repair and maintenance operations must be carried out using extreme care and attention.
- Service steps and platforms used in a workshop or in the field should be built in compliance with the safety rules in force.
- Disconnect the batteries and label all controls to indicate that the vehicle is being serviced. Block the machine and all equipment which should be raised.
- Do not check or fill fuel tanks, accumulator batteries, nor use starting liquid when smoking or near naked flames, as these fluids are inflammable.
- Brakes are inoperative if manually released for repair or maintenance purposes.
In such cases, the machine should be kept constantly under control using blocks or similar devices.
- The fuel nozzle should always be in contact with the filling aperture. Maintain this position until filling operations are completed in order to avoid possible sparks caused by the accumulation of static electricity.
- Only use specified towing points for towing the tractor, connect parts carefully. Make sure that all pins and/or locks are secured in position before applying traction.
Never remain near the towing bars, cables or chains that are operating under load
- Transport vehicles that cannot be driven using a trailer or a low-loading platform trolley, if available.
- When loading or unloading the vehicle from the trailer (or other means of transport), select a flat area capable of sustaining the trailer or truck wheels, firmly secure the tractor to the truck or trailer and lock the wheels in the position.
- Electric heaters, battery-chargers and similar equipment must only be powered by auxiliary power supplies with efficient ground insulation to avoid electrical shock hazards.
- Always use suitable hoisting or lifting devices when raising or moving heavy parts.
- Take extra care if bystanders are present.
- Never pour gasoline or diesel oil into open, wide and low containers.
- Never use gasoline, diesel oil or other inflammable liquids as cleaning agents. Use non-flammable non-toxic proprietary solvents.
- Wear safety goggles with side guards when cleaning parts with compressed air.
- Limit the air pressure to a maximum of **2.1 bar (30.5 psi)**, according to local regulations.

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version of the service manual

