

Workshop Service Manual



MF4200

MF4265

MF4275

MF4283

MF4290

MF4291

MF4292

MF4292HD

MF4292RA

MF4297

MF4298

MF4299



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1.1 Introduction

1.1.1 Presentation

The purpose of this service manual is to assist dealers to perform efficient maintenance on MASSEY FERGUSON machines.

Good Product Support is becoming increasingly important. In addition to selling a good product, good assistance is essential, so that you can achieve the ultimate objective: customer satisfaction.

In this context, the structure of maintenance offered by the dealer is of fundamental importance; therefore, it should only be performed by trained staff who are perfectly familiar with the different components of the machine.

In addition to attending periodic update courses at one of the AGCO Training Units, you should consult this manual before performing the service whenever you have any doubts.

To do so, the manual should always be available at the workshop.

In addition to preserving it in a usable condition, the Services Department should remain alert as regards updates that may be introduced on machines and therefore, in the manual.

1.1.2 How to consult this manual

- This manual has been divided into modules (01, 02, 03, 04, 05), each of which describes a specific system on the machine.

Examples (modules):	
01	Introduction
02	Engine
03	Drive systems

- Each module is divided into sections (4.1, 4.2, 4.3 etc.), each of which describes an integral part of the system.

Example (module 2: Engines):	
2.1	Introduction
2.2	Specifications
2.3	Servicing the engine

- In cases where there are different versions of the same components, the suffix (01, 02, 03 etc.) of the section changes.

Example (module 3: Engines):	
3.1	Perkins engine
3.2	Cummins engine
3.3	AGCO Power engine

- Each page in the sections features a sequential number, starting at the module-page number.



Fig. 1

1.1.3 Safety

- Ensure that all staff members are in a safe position before starting the engine or operating any of the machine's controls.
 - Always turn off the engine before leaving the operator's seat.
 - Keep your hands, feet and clothing at a safe distance from the belts, chains, pulleys, sprockets or any other moving part. Also ensure that all the guard fairings are installed.
 - Wait until all moving parts have come to a complete stop before starting any type of service.
 - When the engine is running, do not allow anybody to remain near the implement or the machine.
-
- Before working on the electrical system, make sure that the ground cable from the battery is disconnected or the master switch (2) is off. Furthermore, disconnect the battery while performing other repairs, in order to prevent anybody from accidentally or inadvertently engaging the starter motor.
 - The lead battery will generate flammable and explosive gasses. Keep sparks and flames away from the battery.

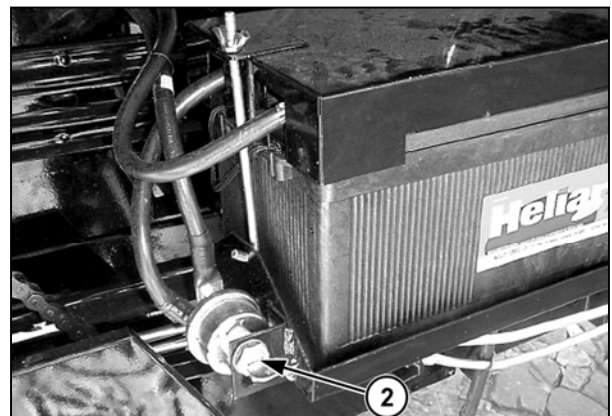


Fig. 2

ATTENTION: The sulphuric acid in the battery electrolyte is poisonous. It is strong enough to scald the skin, corrode clothes and cause blindness if splashed into the eyes. If the acid comes into contact with clothing, skin or eyes, wash them with plenty of water. If the acid has reached the eyes, seek medical attention immediately.

- Before removing any hydraulic component, ensure that all of the hydraulic pressure in the system has been relieved.
- Make sure the hydraulic cylinders, trestles or blocks of wood that are used when lifting the machine for repairs to the wheels and shafts are secure and have an appropriate capacity.
- Safety also depends on the mechanic's practices using tools or equipment when performing the recommended service procedures.

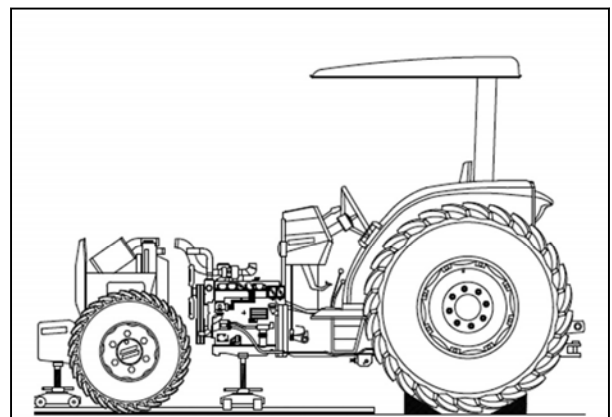


Fig. 3

- Always use appropriate tools and devices during work, particularly when dealing with entire assemblies and/or heavy parts. Make sure that the hydraulic jack, the hoist, chain etc. are in perfect condition and have sufficient capacity for the load.

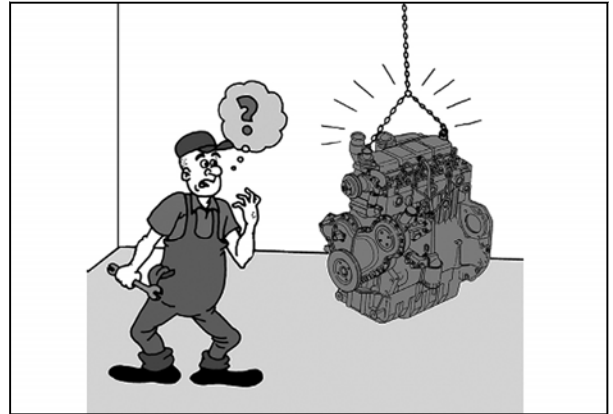


Fig. 4

- Whenever you use an electrical appliance, ensure that it is grounded, and that there are no bare wires.

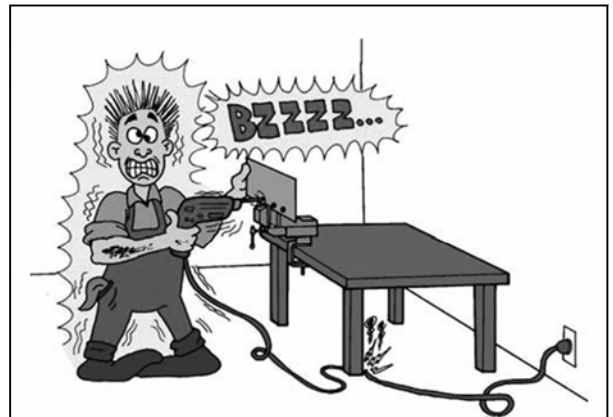


Fig. 5

- To perform welding tasks, in addition to disconnecting the battery you should use the corresponding protection: special mask or goggles, gloves and apron. Failure to use eye protection, for example, affects your vision in a very short period of time, often irreversibly!
- Avoid potentially toxic fumes and dust. Harmful gasses can be generated when paint is heated by welding or using a torch. Always remove paint before welding or using heat sources. Wear a dust mask when sanding or removing paint, and avoid inhaling the dust. If you use solvent or paint stripper, remove the solvent or stripper with soap and water before welding. Remove containers of solvent or paint stripper and other flammable materials from the area. Always disperse gasses before welding or using heat sources. Always work outdoors and in a well-ventilated area. Dispose of the paint and solvent in accordance with regulations.



Fig. 6

NOTE: Remove any accumulation of grease, oil and residue. Turn off the electrical system's master switch before performing soldering work on the machine.

- Do not allow pools of oil to form on the workshop floor; this can cause slips and falls, as well as degrade the appearance of the workshop.

Remember: organization reflects the quality of the professional working there.

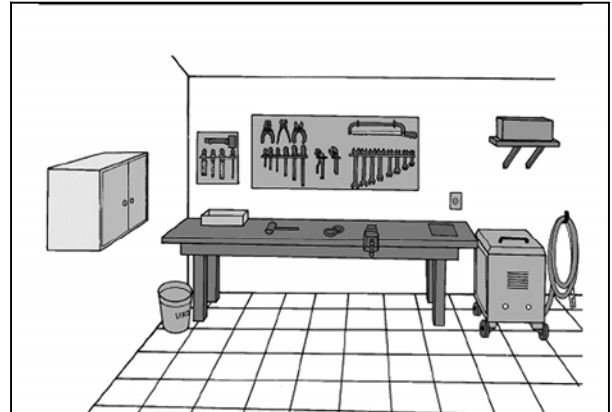


Fig. 7

- Do not leave the engine running in a closed, unventilated environment. Toxic gasses can cause asphyxiation in just a few minutes.



Fig. 8

- Do not smoke in the workplace: there is always a risk of fire given the large variety of flammable products.
- Never stand under suspended loads. Regardless of how safe the lifting equipment is, it is not worth the risk!

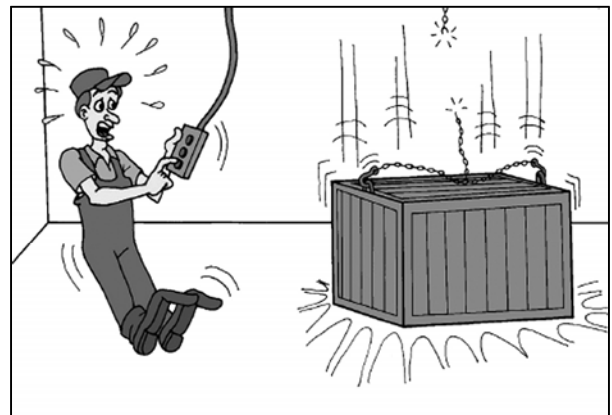


Fig. 9

- Ensure hair is tied back and secure and that clothing is well-fitted. When clothing and hair come into contact with moving parts, they can cause serious accidents.

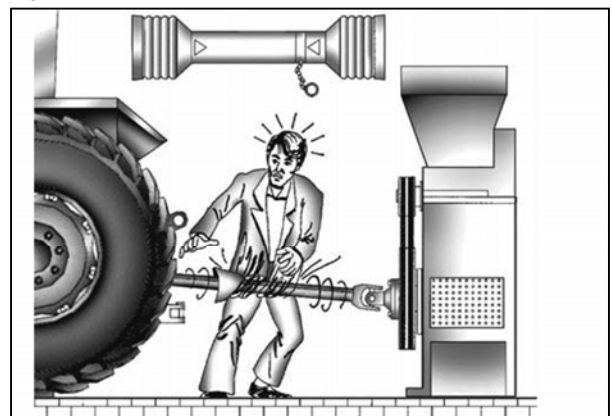


Fig. 10