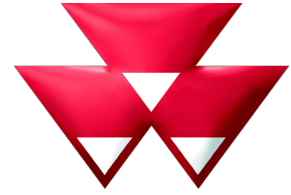


Workshop Service Manual



MASSEY FERGUSON

Rotary Disc Header

9316S

9316D



**CALIFORNIA
Proposition 65 Warning**

WARNING: Diesel engine exhaust and some of its constituents are known to the State of California to cause cancer, birth defects, or other reproductive harm.

WARNING: Battery posts, terminals and related accessories contain lead and lead compounds, chemicals known to the State of California to cause cancer, birth defects, or other reproductive harm. Wash hands after handling.

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1.1 General information

1.1.1 Introduction to this service manual

This service manual gives information from engineering tests, operating data, and the latest service techniques at the time of publication. Read this service manual carefully before doing any service on the machine.

The photos and illustrations used in this service manual were current at the time of publication. Production changes can cause machines to vary from the photos and the illustrations. The manufacturer reserves the right to redesign and change machines as necessary without notification.










WARNING:

Some pictures in this manual show the machine with shields or guards removed to permit for a better view of the subject of the picture. All shields and guards must be in position before operating the machine.

Machine movement when in normal use determines right-hand and left-hand.

1.1.2 How to Use this Manual

Within this manual colour is put on images to aid the reader to further understand what to do with components.

Task Colour	Description	Common Uses
	Target/Focus Item The main component that you use in the step is this colour.	primary component, decal location, component location
	Connectors, Sealings, Fasteners, Fixings, Welds All components that attach the primary component to a different component.	bolts, nuts, electrical connector
	First Alternative If there are two primary components in the image, one of the two components is this colour.	second main component
	Second Alternative If there are three primary components in the image, one of the three components is this colour.	third main component
	Special Tools Where special tools or equipment are in an illustration they are this colour.	pressure gauges, lifting equipment, equipment specific tools
	Parts that You Move A part that you must move and that is not necessary to remove from the machine.	electrical wires, hydraulic hoses
	Sections Where a cross section of a component is necessary, this colour will show the component that you see through.	component casings, gearboxes

1.1.3 Units of measurement

Measurements are given in metric units followed by the equivalent in US units. Hardware sizes are given in millimeters for metric hardware and inches for US hardware.

1.1.4 Table of contents

This manual has a table of contents at the front. The table of contents shows the divisions. The individual divisions also have a table of contents.

1.1.5 Page numbers

All pages have two numbers, such as 01-25. The first number shows the division. The second number shows the page in the division.

Page numbers occur on the lower right-hand or lower left-hand corner of each page.

1.1.6 Intended use

This machine is designed solely for use in customary agricultural operations.

Do not use this machine for any application or purpose other than those described in this manual. The manufacturer accepts no liability for damage or injury resulting from misuse of this machine.

Compliance with the conditions of operation, service and repair as specified by the manufacturer constitute essential elements for the intended use of this machine.

This machine should be operated, serviced and repaired only by qualified persons familiar with its characteristics and familiar with the relevant safety rules and procedures.

All generally recognized safety regulations and road traffic regulations must be obeyed at all times.

Any unauthorized modifications performed on this machine will relieve the manufacturer of all liability for any resulting damage or injury.

1.1.7 Proper disposal of waste

Improper disposal of waste can pollute the environment and ecology. A few examples of potentially harmful equipment waste can include, but not limited to, items such as oil, fuel, coolant, brake fluid, filters, battery chemicals, tires, etc.

Use leak proof containers when draining fluids. Do not use food or beverage containers to collect waste fluids, as food or beverage container(s) may mislead someone into drinking from them.

Do not pour or spill waste onto the ground, down a drain, or into any water source.

Air conditioning refrigerants escaping into the air can damage the Earth's atmosphere. Government regulations may require a certified air conditioning service center to recover and recycle used air conditioning refrigerants.

Inquire with local environmental or recycling center on the proper way to recycle or dispose waste.

1.2 Safety

1.2.1 Safety symbol

The safety symbol tells you about a potentially hazardous area!

Look for the safety symbol in this manual and on the machine. The safety symbols tell you that there is important safety instructions in the manual.

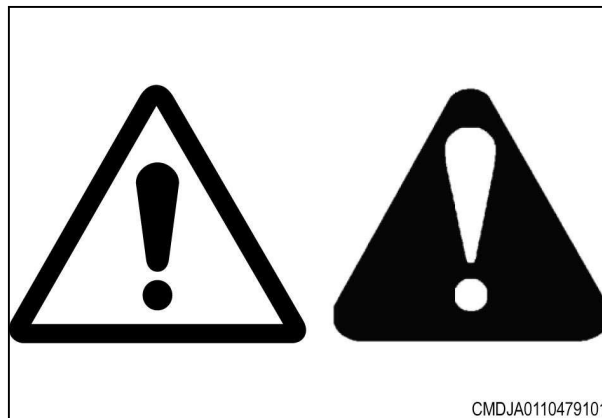


Fig. 1

1.2.2 Safety messages

The words DANGER, WARNING or CAUTION are used with the safety symbol. Learn these safety messages and obey the recommended precautions and safety instructions.



DANGER:
If you do not obey the recommended precautions and safety instructions, DEATH OR INJURY will occur.



WARNING:
If you do not obey the recommended precautions and safety instructions, DEATH OR INJURY can occur.



CAUTION:
If you do not obey the recommended precautions and safety instructions, INJURY can possibly occur.



Fig. 2

1.2.3 Information messages

The words important and note are not related to personal safety, and are used to give information about the operation and servicing of the machine.

IMPORTANT: Identifies special instructions or procedures which, if not followed, can cause damage to the machine, the process, or the area around the machine.

NOTE: Information to make procedures easier.

1.2.4 Safety signs



WARNING:
Do not remove the safety signs. Replace safety signs that you cannot read, are damaged, or are missing.

Clean the machine surface with a weak soap and water solution before you replace the safety signs. Replacement safety signs are available from your dealer.

Always make sure that safety signs are in the correct locations and that you can read the safety signs. Illustrations of safety sign locations are in this section.

Keep the safety signs clean. If necessary, use a weak soap and water solution.

1.2.5 A word to the technician

Read and understand the safety section in this service manual before operating or servicing the machine. Read and understand the safety sections in the manuals for all attachments before operating or servicing attachments. The technician has the key to safety. Good safety practices protect everyone.

Study the safety information in this service manual. Make the safety information a working part of the safety program. The safety information in this service manual applies specifically to this type of machine. Always do all other usual and customary safe working precautions. Remember - The technician has the responsibility for safety. Good safety practices can prevent serious injury or death.

The safety section points out some basic safety situations that can occur during the operation and maintenance of the machine. The safety section also suggests possible ways to deal with these situations. The safety section does not replace safety practices in other parts of this service manual.

Practice good safety to help prevent injury or death.

Learn how to operate the machine and how to use the controls correctly.

Do not let other persons operate the machine without instruction and training.

Follow all safety precautions and instructions in the manuals and on safety signs affixed to the machine and all attachments.

Use only approved attachments and equipment.

Make sure the machine has the correct equipment needed by the local regulations.

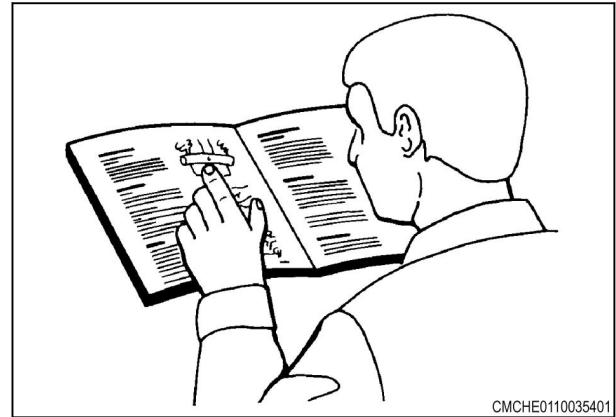


Fig. 3



WARNING:

An operator should not use alcohol or drugs which can affect their alertness or coordination. An operator on prescription or 'over the counter' drugs needs medical advice on whether or not they can properly operate machines. If any attachments used on this equipment have a separate Operator Manual, see that manual for other important safety information.

1.2.6 The service manual

Read the table of contents and basic layout. Become familiar with all parts of this service manual. This service manual gives the technician very important information.

Machine movement when in normal use determines right-hand and left-hand.

This manual covers general safety practices for this machine.

The photos, illustrations, and data used in this manual were current at the time of printing. Inline production changes can make machines vary from the information in the service manual. The manufacturer reserves the right to redesign and change the machine as necessary without notification.



WARNING:

In some of the illustrations and photos used in this manual, shields or guards may have been removed for clarity. Never operate the machine with any shields or guards removed. If the removal of shields or guards is necessary to make a repair, they must be replaced before operation.

1.2.7 Operation

1.2.7.1 Prepare for operation

Read and understand the operating instructions and precautions in this manual before you operate or perform service on the machine.

Make sure that you know and understand the positions and operations of all controls. Make sure that all controls are in neutral and the parking brake is applied before you start the machine.



WARNING:

If the engine is running and the parking brake is not applied, the machine will turn if the steering wheel is moved when the travel control lever is in neutral.

Make sure that all persons are a sufficient distance from your area of work before you start or operate the machine. Do checks on the controls and learn all controls in an area clear of persons and objects before you start work with the machine. Know the dimensions of the machine and have sufficient space available for operation. Do not operate the machine at high speeds around persons, buildings, other equipment, etc.

Always use correct procedures when you do tasks around and operate the machine. Do not let children or persons who do not know how to operate the machine operate the machine. Keep other persons away from your area of work. Do not let other persons ride on the machine.

Make sure that the machine is in the good mechanical condition. Make sure that the machine has the correct equipment as necessary by local regulations.

All equipment has a limit. Make sure you understand the speed, brakes, steering, stability, and load characteristics of this equipment before you start.

1.2.7.2 General information

When parking, park the machine on a solid level surface and lower the header to the ground. Put all controls in neutral, and apply the parking brake. Stop the engine and take the key with you.



WARNING: Whole body crushing hazard. A loss of hydraulic pressure or movement of the mechanism can cause the raised machine component to fall.

Personal injury or death can occur.

Install the lift cylinder stops before working on the machine to prevent movement.

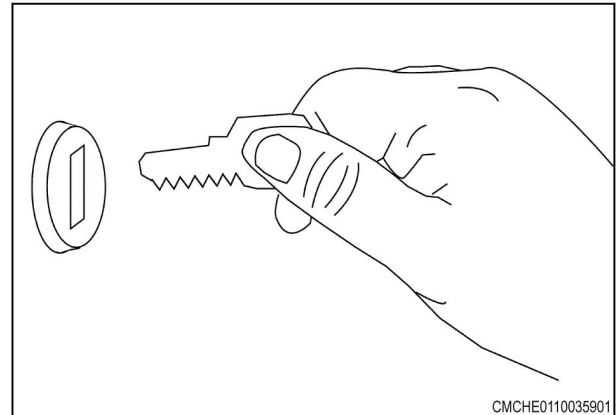


Fig. 4

Make sure the machine is in the proper operating condition according to the Operator Manual.

Always operate the machine with the control console turned on.

Do not dismount from moving machinery.

Stay off slopes too steep for operation.

Be aware of the size of the machine and have enough space available to allow for operation.

Stay off slopes too steep for operation. Keep the header as low as possible while going down hills. Never suddenly reverse the wheels to stop or back up.

Where possible avoid operating the machine near ditches, embankments, and holes. Reduce ground speed when operating on rough, slippery, or muddy surfaces and when turning or crossing slopes.



DANGER: Machine electrical shock and electrocution hazard.

Personal injury or death can occur.

Keep the machine clear of overhead electrical power lines.

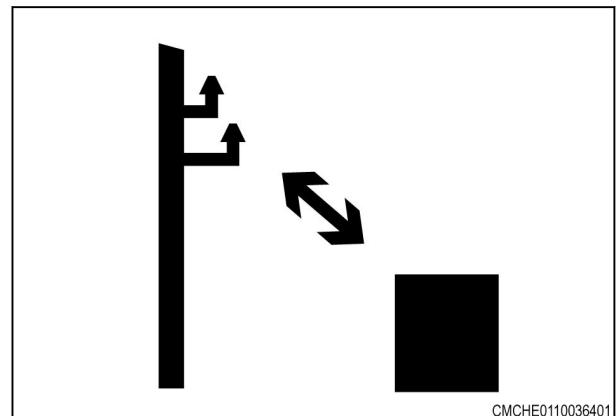


Fig. 5