

Original operating manual

FPS-JD 1026 R

- 131 8140 Front Power System**
- 131 8479 Front PTO shaft**
- 131 7454 Hydraulic Extension Kit**
- 131 7456 Mower Attachment Kit**



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1 About this operating manual

Dear customer!

Thank you for purchasing this implement, we appreciate your trust.

Prior to using this implement for the first time, read this operating manual carefully and conscientiously all the way through.

To obtain the long service life for which matev products are known, careful and conscientious maintenance is a strict requirement. However for proper maintenance it is strictly necessary that you have carefully read this operating manual. Moreover, it is not possible for matev to assume liability for damage that is attributed to improper use or non-intended use.

Keep this operating manual where it is easily accessible. This will enable you to refer to important information and handling instructions as needed.

Listings with bullet points are marked as follows:

- Text
- Text
- Text . . .

Handling instructions are marked in the sequence in which they should be executed, as follows:

1. Text
2. Text
3. Text . . .



This implement is subject to change in the interest of technical progress. All information, illustrations, and technical specifications represent the latest status at the time this manual was published. The manufacturer reserves the right to make changes at any time in the interest of technical progress.

2 Safety

Guidelines and instructions with which you must comply, are summarized in this section.

Personnel who install, operate and maintain these implements, must have read and understood this operating manual.

2.1 Intended use

The front power system must only be mounted on type John Deere 1026 R tractors. The front power system is used for accommodating small to medium-sized implements, such as snow blades, sweepers, etc. and should only be connected and operated with such implements. Please note that you must avoid overloading the front axle, even in heavy-duty implementation (e.g. snow removal). The permissible axle load is specified in the appropriate documentation provided by the tractor manufacturer.

The front PTO shaft extends the mid-mount PTO shaft of the tractor to the front. It is used to power sweepers, or similar implements that are driven with PTO shafts.



Attention!

The front power system should not be charged with downward pressure via the tractor's hydraulic system! For implements that contact the ground or roll on the ground in operation, the tractor hydraulic system must be switched to the float setting! Strictly comply with the manufacturer's recommendation!



The front power system is not suitable for lifting people or for use as a work platform!

In addition, compliance with the service and maintenance guidelines is a component of intended use. Moreover intended use includes exclusive use of original spare parts and supplemental equipment, or use of such parts and equipment that meet the technical requirements specified by the manufacturer.

All other uses are excluded.

Non-intended use causes:

- Health hazards for the operator or for third parties
- Damage to the tractor and the implements
- Immediate invalidation of the guarantee
- Environmental damage

To avoid accidents and to reduce the risk of accidents, the relevant accident prevention regulations and the other generally acknowledged occupational health and safety and road traffic regulations apply without limitation.

Changes to the front power system and/or the associated accessories invalidate the guarantee and exclude any liability on the part of the manufacturer for damage due to the changes.

2.2 Qualifications of personnel

Only persons 18 years of age or older, or instructed persons should install, operate, and maintain the implements. The operator must have read and understood this operating manual.

2.3 General safety notices

General safety instructions are explained in this section. These safety instructions are used in the subsequent chapters. In addition to the safety aspect, you will save money and work time if you follow these safety instructions.



Danger!
Severe injury to the operator or third parties occurs.
Comply with the safety notice.



Attention!
Minor injury of the operator or third parties can occur. The tractor, the front power system, or the environment can be damaged.
Comply with the safety notice.



Note!
Important, helpful tips or information for the operator.
Read this note. It facilitates your work.



Attention!
Injuries can occur.
Wear protective work clothing.

2.4 Special safety notices

The safety instructions specified in this chapter are also affixed as stickers on the implements.



Attention!
Danger of injury due to moving parts.
Remove the ignition key before performing maintenance tasks on the implement.



Attention!
Injuries can occur due to improper operation. The implement can be damaged.



Read the operating manual all the way through.
Comply with the safety instructions.



Attention!
Injuries due to fluid escaping under high pressure.
Comply with the notice in the operating manual.



Attention!
Danger of crushing due to moving parts.
Never reach into the crushing hazard danger zone if parts are moving or can move.



Comply with the notice in the operating manual.



Attention!
Increased risk of accident due to rotating PTO shaft.
Do not enter the work area of the PTO shaft when it is rotating.
For your own safety do not wear any loose clothing, straps, or any other loose items. Switch off the implement. Wait until all machine parts have come to a standstill before converting or servicing the implement.



Attention!
Check all threaded unions prior to using the implement and after using the implement. Loosened connections must be re-tightened.
Damage can occur.

3 Installation



Switch off the tractor and remove the ignition key.



Enter the vehicle chassis number of the front power system in section 6 of this operating manual.

3.1 Installation of the front power system

Start the installation by fitting the two-piece attachment bracket on the front on the tractor frame. The attachment bracket is fastened on the tractor frame on the front and side with the bolts included in the scope of delivery.

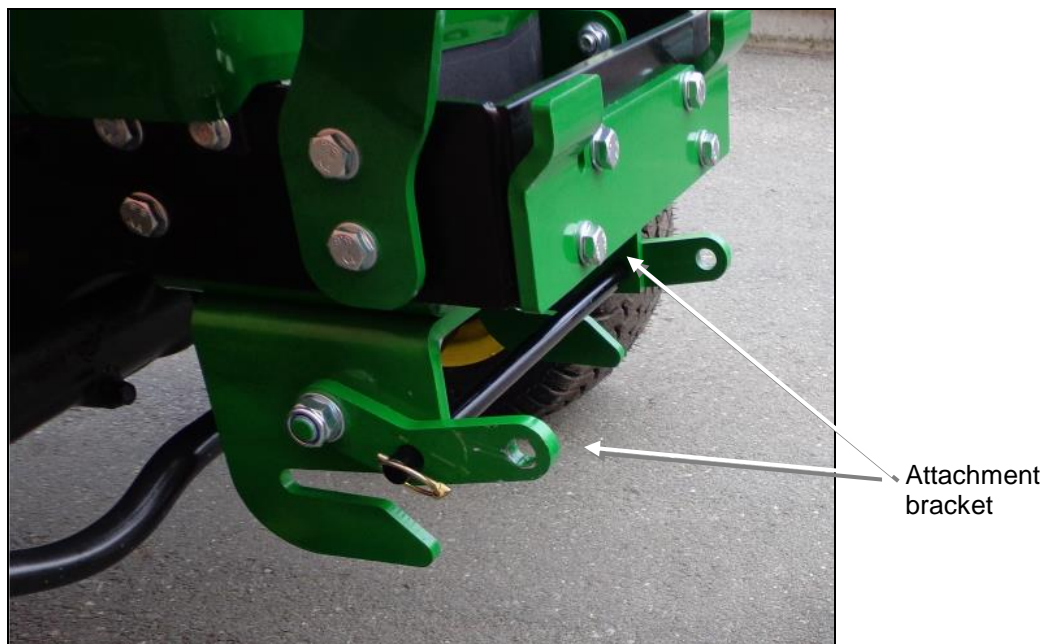


Fig. 1: Attachment bracket

The actual front power system is only hooked into the provided aperture on the attachment bracket with the cross-member of the front power system and locked with the two angle bolts (left/right) on the lugs. The arrest nuts on the lugs can be omitted for faster dismantling (e.g. frontloader). However this can result in higher noise levels.

Connect the hydraulic lines of the front power system to the hydraulic lines available on the tractor side (lift, lower). Use cable ties to fix the hydraulic hoses in place along the length of the tractor frame.

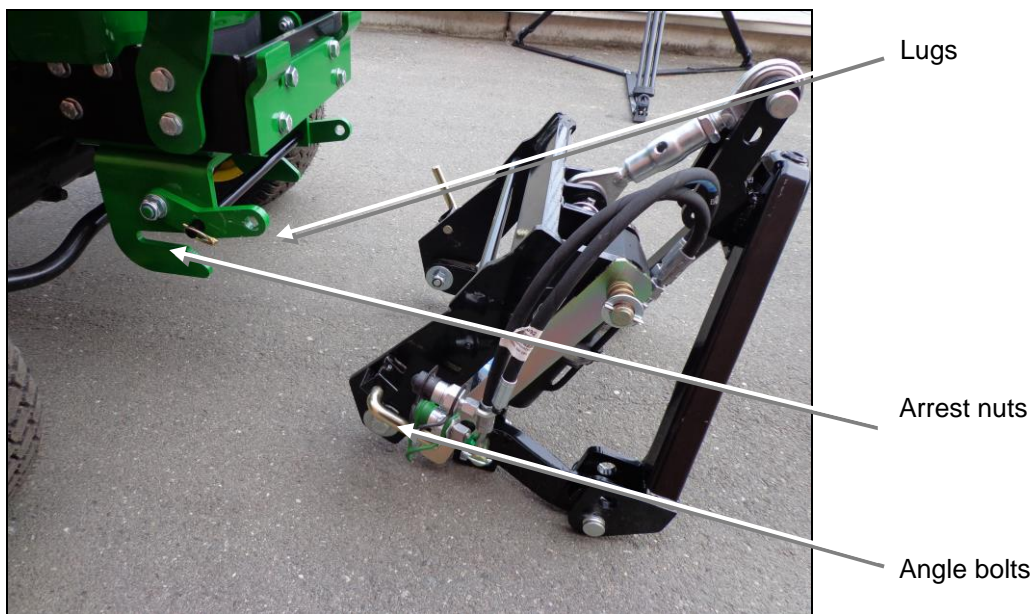


Fig. 2: Locking mechanism of the front power system

3.2 Installation of the front PTO shaft (drive shaft tube)

For installation of the front PTO shaft, pre-assemble the drive shaft with the drive shaft holder and the protective pot. Then pull out the arrest bar (included in the scope of delivery of the attachment bracket) and slide the pre-assembled drive shaft holder into the attachment bracket.

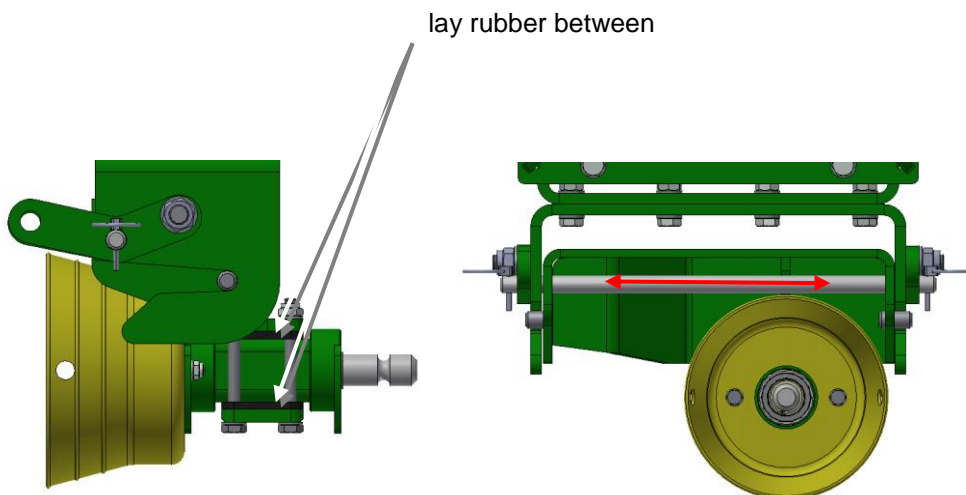


Fig 3: PTO sideview

Fig 4: PTO front view



Comply with the instructions in the operating manual provided by the manufacturer of the universal joint shaft.



Mount the universal joint shaft as described in the original manual provided by the manufacturer of the universal joint shaft.



Switch off the tractor and remove the ignition key before mounting or dismounting the front PTO shaft.

1. Insert the universal joint shaft through the protective tube and press the locking pin (locking ring) on the outer fork. Keep the locking pin depressed. Install the hinge shaft with the sliding part forward



Fig 5: PTO installed

2. Slide the outer fork onto the profile stub of the mid-mount PTO shaft of the tractor and release the locking pin (locking ring).
3. Slightly move the universal joint shaft back and forth until the locking pin audibly locks in place.
4. Repeat steps 1 to 3 to attach the universal joint shaft on the front drive shaft tube.

Installation

5. Fix the front protective tube on the front protective tube holder with screws and with the rubber strap on the rear.

The front protective tube holder is also fastened on the drive shaft. The rear protective tube holder must be mounted on the underside of the tractor, as shown in the following photo.



Fig. 6: Protective tube holder, front



Fig. 7: Protective tube holder, rear



Fig 8: Protective tube

3.3 Mounting the rear hydraulic extension kit

Mount the holder with the connection plugs on the front of the front power system (tapped bores are present) and lay out the hydraulic hoses along the tractor frame and connect them to the connections available on the tractor side.

Holder with connection plugs, front

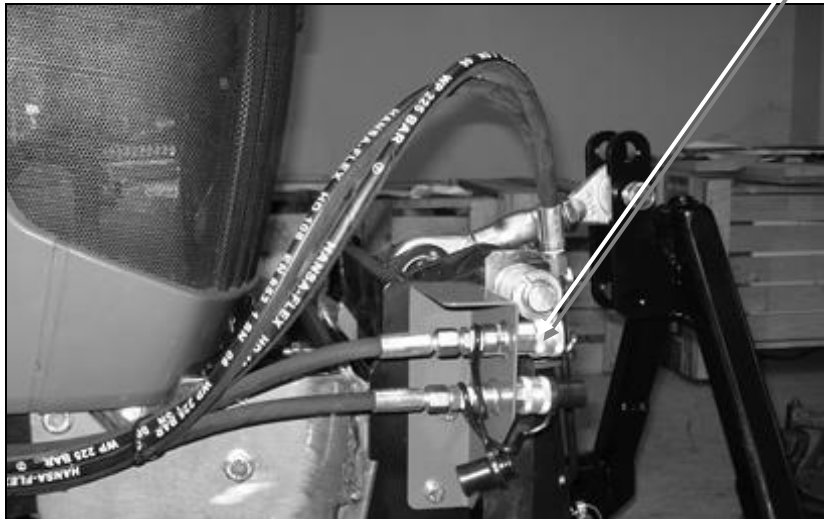


Fig. 9: Hydraulic extension kit

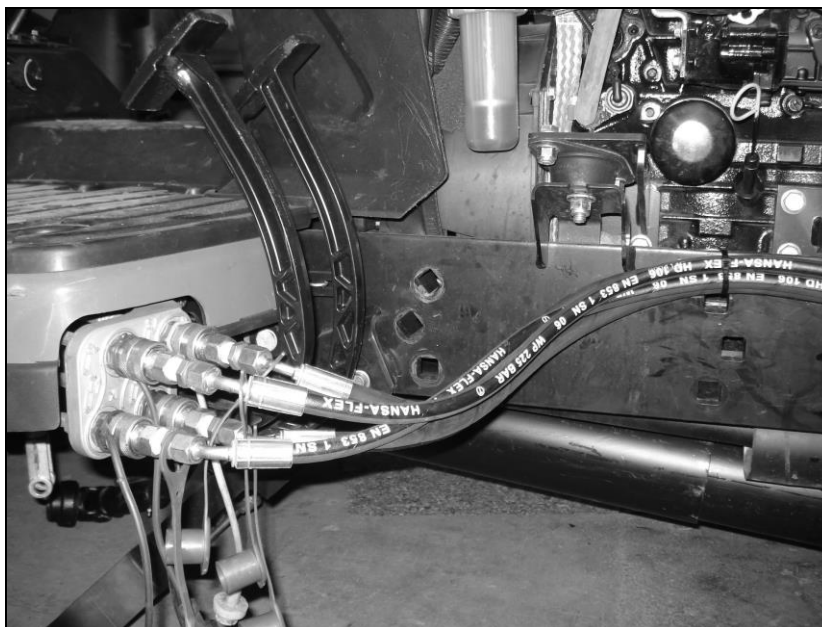


Fig. 10: Hydraulic extension set, rear

Installation

3.4 Mounting the rear mower attachment kit

The mower attachment kit is already integrated in the attachment bracket of the front power system.

To attach the mid-mount mower, the front power system must be unhooked.



Fig. 11: Mower attachment kit

Mower attachment kit

4 Operation



Before starting up the implement, read the instructions on safety and handling for operation of the entire implement and connection to the tractor. In addition, prior to start-up you must ensure that the vehicle meets the requirements specified in the German Road Traffic Vehicle Licensing Act.

The front power system should only be placed in service if all safety devices are attached and fully functional. Prior to starting work the operator must familiarize himself with the device and ensure for himself that the entire device is operationally reliable.

Moving objects and fixtures, (ropes, chains, linkage, etc.) must be adequately secured before transport or driving on public roads to exclude the danger of accident or hazards to third persons.

4.1 Attachment variants for the coupling support

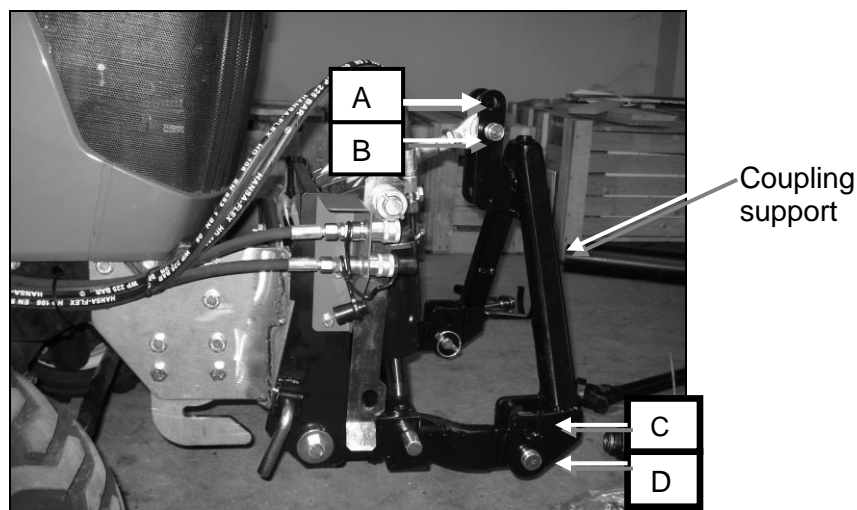


Fig. 12: Coupling triangle

You can make four different settings on the coupling triangle (see photo 27 in this regard). Position the bolts in the appropriate bores to achieve the desired setting.

Standard

Couple the triangle in points A and C.

Standard with stronger take-up

Couple the triangle in points B and C.

Lift increased by 45 mm

Couple the triangle in points B and D.

Lift increased by 45 mm with stronger take-up

Couple the triangle in points A and D.

4.2 Coupling and uncoupling implements



Comply with the axle loads specified by the tractor manufacturer.

1. Drive the tractor forward in front of the implement.
2. Lower the front power system hydraulically.
3. Drive slowly toward the implement until the coupling triangle of the tractor is under the coupling triangle of the implement.
4. Slowly lift the front power system until the implement is slightly lifted.
5. Secure the implement with the appropriate triangle locking mechanism. The triangle locking mechanism depends on the type of implement.

4.3 Lowering safeguard for the front power system



Use the lowering safeguard for:

- Driving on roads
- Driving between work locations
- Performing cleaning and maintenance tasks

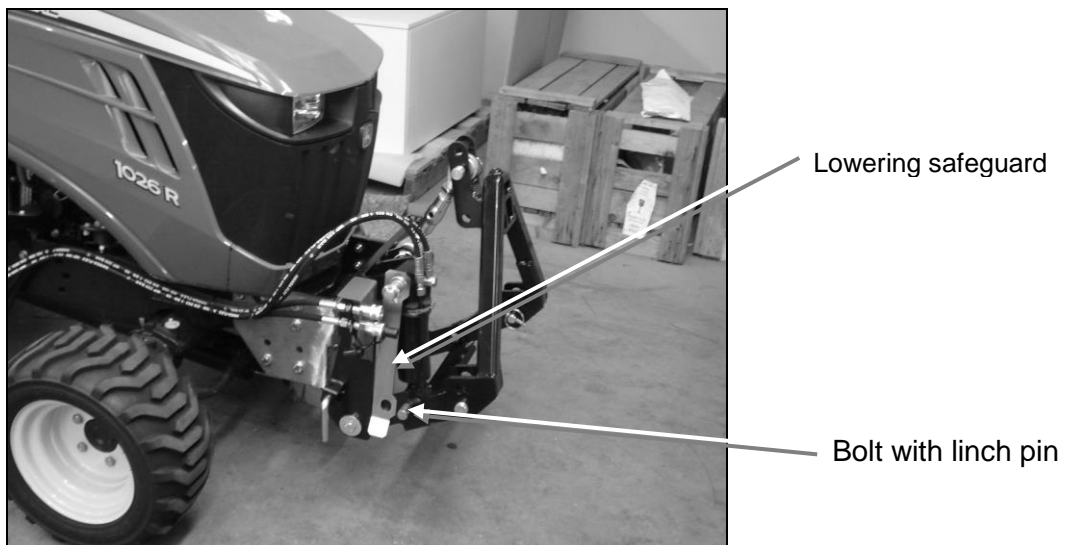


Fig. 13: Lowering safeguard, shown in unlocked position

1. Lift the front power system.
2. Pull off the lynch pin on the bolt and fit the lowering safeguard on the bolt. Then secure the connection with the lynch pin again.

Avoid necessarily lower the front linkage on the control levers of the tractor when the locked-lowering. Parts of the front linkage could damage!

5 Maintenance

5.1 General information



Before each use check all safety-relevant parts, the hydraulic connections, and all threaded unions.

5.2 Service



Remove the ignition key before performing maintenance tasks on the implement.

After 25 operating hours, at the start of the season, or after a longer standstill period:

- Grease the moving parts of the implement.
 - Grease the bearing on the PTO shaft drive.
 - Grease the lowering safeguard.
 - Grease the arrest bolt.
 - Check the seat, status and seal of the hydraulic lines
- Before and after each use, check all threaded unions for firm seat and re-tighten them if necessary.



Repairs on parts that are under tension (springs, pressure accumulators) require adequate skills and prescribed tools, and should only be performed by specialists.



Replace any worn or no longer functioning protective device!



Only use original matev spare parts.

5.3 Maintaining the hydraulic system



The hydraulic system is under high pressure. Escaping fluids (hydraulic oil) can penetrate the skin and cause severe injuries.



Strictly ensure that you switch off the engine and de-pressurize the system before executing tasks on the hydraulic system.

- Regularly check the hydraulic lines and replace them if there is damage or signs of aging.

6 Repair

If there are faults, problems, or other indications of malfunction, contact your sales consultant or contact the manufacturer directly:

matev GmbH
Nürnberger Str. 50
90579 Langenzenn
Tel. (switchboard): 09 101/90 87-0

Enter the article number and the VIN number here.
This information is on the type plate of the device.

Article number:

Chassis number:

7 Disposal

The implements must be disposed of in accordance with the applicable regulations of the municipality or the country.

Take the parts to the collection points for residual waste, special waste, or recycle them depending on material.

matev GmbH does not provide any disposal services.

8 Guarantee

The General Terms & Conditions of matev GmbH provide information on the guarantee conditions.

9 Technical data and accessories

9.1 Technical data

Front power system	Data
Hydraulic cylinder	Double-acting cylinder
Lift force	Do not exceed the permissible axle loads of the vehicle!
Front power system	Removable (quick-coupling system)
Front PTO shaft	Removable
Weight	49 kg

9.2 Accessories

Accessories	Order number
Front PTO shaft	131 8479
Hydraulic extension kit	131 7454
Front weight holder	131 5248
Mower attachment kit for John Deere mid-mount mower	131 7456

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11 EC Declaration of Conformity

EC Declaration of Conformity for a machine to confirm compliance with the Machinery Directive 2006/42/EC and with the statutory regulations issued for the implementation of the Machinery Directive.

The manufacturer matev GmbH
Nürnberger Str. 50
90579 Langenzenn

declares that the machine FPS-JD 1026R
131 8140 Front power system
131 8479 Front PTO shaft
131 7454 Hydraulic extension kit
131 7456 Mower attachment kit

complies with the provisions of the Machinery Directive 2006/42/EC and with the implementing national statutory regulations.

The signer is authorized to compile the technical documents.

The address is the address of the manufacturer.

Date / signature

February 2016


.....

Name of signer

Signer information

Georg Hemmerlein
Managing Director