

# John Deere 778 Rotary Harvesting Unit (SN. 127522-) Technical Manual (TM411119)

**778 Rotary Harvesting  
Unit  
(SN. 127522-)**



JOHN HARE



COLLECTION

**TECHNICAL MANUAL  
778 Rotary Harvesting Unit (SN. 127522-)**

TM411119 01DEC18 (ENGLISH)



Maschinenfabrik Kemper  
GmbH & Co. KG

**Covers:** 778,127522)

**Type:** Service Manual

**Language:** English

**Pages:** 157

**Format:** PDF

**Features:** Bookmarked, searchable, printable

**Compatibility:** Windows/Mac/Tablet/Mobile

This service manual contains important information for the maintenance, troubleshooting and servicing of the **John Deere 778 Rotary Harvesting Unit (SN. 127522-) Technical Manual (TM411119)**

In this manual you will find detailed specifications, illustrations, schematics, diagrams and step-by-step procedures to properly service and diagnose the machine to the manufacturer's standards.

**Contents:**

- General Information
- Specifications
- Serial Number Location
- Engine Specifications
- Engine Diagnostics
- Engine Tests and Adjustments
- Engine Repair
- Power Train
- Transmission
- Axles
- Differential
- PTO
- Hydraulic System
- Electrical System
- Electrical Tests and Diagnostics
- Wiring Diagram / Schematic
- Ignition and Charging
- Steering
- Brakes
- Wheels
- Operator's Platform
- Body Panels
- Disassembly and Assembly
- Diagnostics, Tests and Adjustments
- Troubleshooting
- and much more...

Please note this manual is in **downloadable PDF format only**. If you have any questions about this product or would like to request sample pages, please contact us and reference the product name or SKU.

## Group 05

### Gear Box (Optional)

#### Gear Box, Summary of References

Gear Box, Summary of References  
 Gear Box, Specifications  
 Gear Box, Other Material  
 Gear Box, Special Tools  
 Remove Gear Box from Rotary Harvesting Unit  
 Install Intermediate Shaft  
 Gear Box, Exploded View (Part 1)  
 Gear Box, Exploded View (Part 2)  
 Recondition Gear Box

Disassemble the Output Shaft  
 Remove Shift Quadrant  
 Disassemble the Shift Quadrant  
 Assemble the Shift Quadrant  
 Assemble the Gear Box  
 Assembled Spur Gear with Input Shaft  
 Assembled Spur Gear (Center)  
 Assembled Spur Gear with Output Shaft  
 Install the Gear Box

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#### Gear Box, Specifications

| Item                                  | Measurement | Specification          |
|---------------------------------------|-------------|------------------------|
| Gear oil                              | Capacity    | 2.9 L<br>0.76 U.S. gal |
| Hex. socket screws of gear box halves | Torque      | 55 N·m<br>40 lb-ft     |

| Item                    | Measurement | Specification      |
|-------------------------|-------------|--------------------|
| Flanged pipe cap screws | Torque      | 55 N·m<br>40 lb-ft |
| Spur gears              | Play        | 0 mm<br>0 in.      |

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#### Gear Box, Other Material

| Order No. | Designation | Use                    |
|-----------|-------------|------------------------|
| PM37463   | Sealant     | Spur gear housing seal |

|         |             |                      |
|---------|-------------|----------------------|
| L 1475  | Loctite 243 | Thread lock          |
| L 64500 | Loctite 574 | Form-in-place gasket |
| PM38652 | Loctite 620 | Adhesive             |

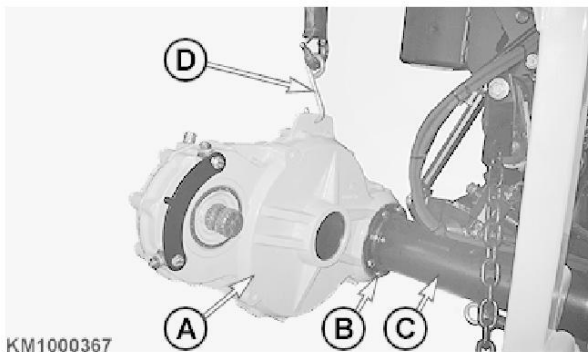
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#### Gear Box, Special Tools

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Refer to 'DFKM001' in Section 99.

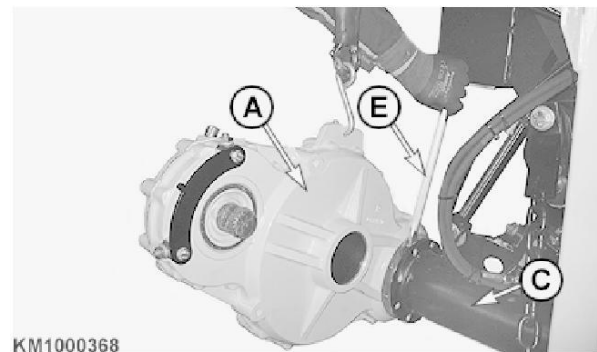
#### Remove Gear Box from Rotary Harvesting Unit



KM1000367

KM1000367-UN: Remove gear box from rotary harvesting unit

Remove u.j. shaft from gear box (A). Insert lifting tool (D) into the bore provided. Loosen attaching screws (B) on flanged pipe (C).



KM1000368

KM1000368-UN: Pull out gear box

LEGEND:

A-Gear box

B-Attaching screws

C-Flanged pipe

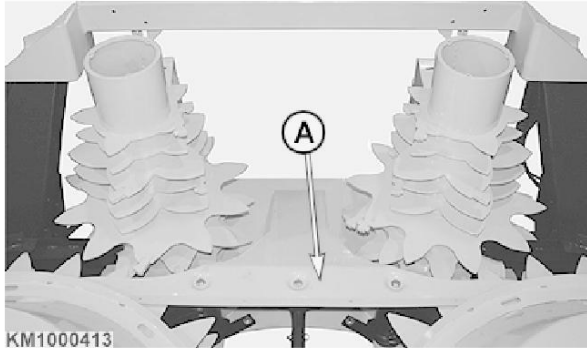
D-Lifting tool

E-Prybar

Using a prybar (E), slowly slide transmission (A) aside and pull it out of the flanged pipe (C) completely.

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#### Install Intermediate Shaft

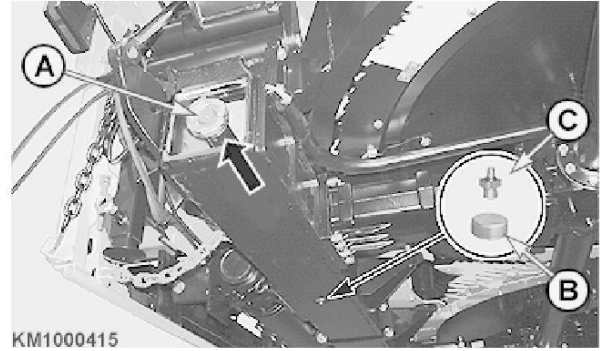


8. KM1000413-UN: Remove Scraper

**LEGEND:**

**A-Scraper**

Remove scraper (A).



KM1000415

10. KM1000415-UN: Fold up Lateral Sections and Remove Hex. Shaft

**LEGEND:**

**A-Hex Shaft**

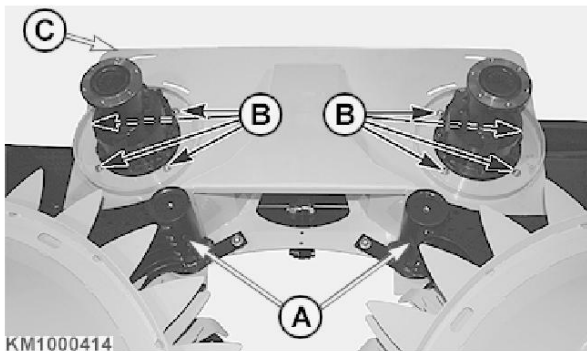
**B-Screw Plug**

**C-Stop Screw**

Fold up lateral sections and remove hex. shaft (A).

**NOTE:**

There are two hex. shafts. Remove the hex. shaft which belongs to the transmission to be removed.



KM1000414

9. KM1000414-UN: Remove Scraper

**LEGEND:**

**A-Scraper**

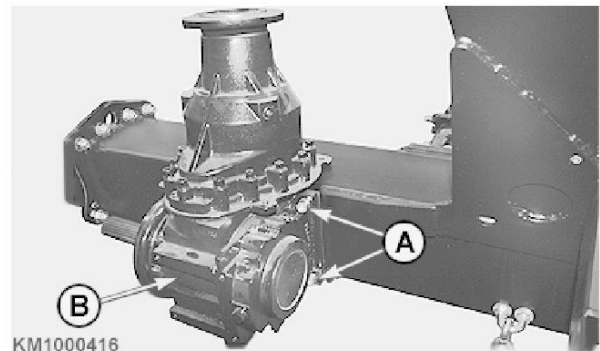
**B-Attaching Screws**

**C-Bottom Plate**

Remove scraper (A). Take out attaching screws (B) and remove bottom plate (C).

**NOTE:**

The hydraulic hoses and the brake line are secured by means of tie bands under the bottom plate. Before removing the bottom plate, cut through the tie bands. Protect cable and hydraulic hoses from damage.



KM1000416

14. KM1000416-UN: Take Attaching Screws out of Spur Gear Angle Drive (B)

**LEGEND:**

**A-Attaching Screws**

**B-Spur Gear Angle Drive**

Take attaching screws (A) out of spur gear angle drive (B).

15. Take spur gear angle drive (B) out of the frame using a lifting tool.

KM00321,0000463-19-20150624

## Separate the Planetary Drive from the Spur Gear Angle Drive

**IMPORTANT:**

Place a suitable container under the drive during disassembly to trap the fluid grease from the planetary drive (B).

**NOTE:**

If the spur gear angle drive (C) is not to be disassembled, it is not necessary to drain the oil from there.



Thank you very much  
for your reading.  
Please click here  
to get more information.