

John Deere 1770NT, 1770NT CCS 24-Row Planter (SN. 740100) Diagnostic&Tests Service Manual (TM2129)

803M, 853M, and 859M
(Closed-Loop Hydrostatic
Drive) Tracked Feller
Buncher (SN. from 270423)
Repair



REPAIR TECHNICAL MANUAL

Track models 803M (PIN: 1T0803MX**C270423—, 1T0803MX**D270423—); 853M
(PIN: 1T0853MX**C270423—, 1T0853MX**D270423—); 859M (PIN:
1T0859MX**C270423—, 1T0859MX**D270423—)

TM13244X19 28 JAN 16 (ENGLISH)

For complete service information also see:








859M (Closed-Loop Hydrostatic Drive) Tracked Feller Buncher (SN. from 270423)	TM13182X19
803M and 853M Tracked Feller Buncher (Closed-Loop Hydrostatic Drive)	TM13148X19
JDLINK (MTG) Technical Manual	
Alternators and Stators	
Pump Drive Service Manual	
PowerTech 9.0L OEM Diesel Engine Certified Base Engine Repair	
PowerTech 6090 Diesel Engine Level 14 Electronic Fuel System with the Denso High Pressure Common Rail (HPCR) Level 14 ECU	CTM385
120 Series Hydraulic Cylinders	CTM120519
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TM13244X19

Covers: (SN.        740100); 1770NT,24ROW,1770NT,24ROW

Type: Service Manual

Language: English

Pages: 598

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 1770NT, 1770NT CCS 24-Row Planter (SN.◆◆◆◆◆◆◆◆ 740100) Diagnostic&Tests Service Manual (TM2129)**

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.

Power Transmission - 2 Speed Rear PTO

Function:

The 2 speed rear PTO provides a means for transferring engine power at two different RPMs to rear mounted attachments.

Theory:

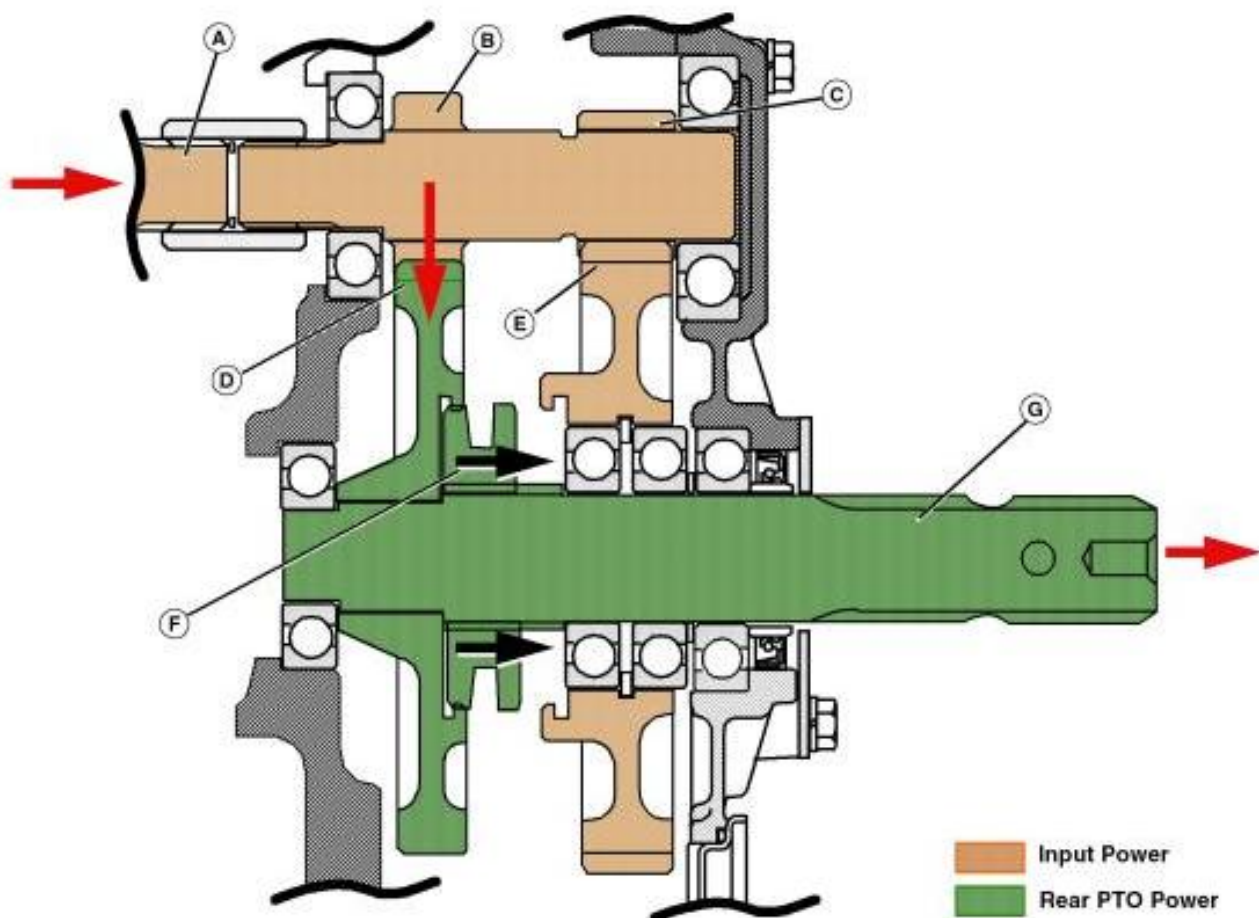
Power is provided to the PTO gear power train through PTO clutch and PTO drive shaft (A). The PTO drive shaft turns in a counter-clockwise direction and is coupled directly to the PTO pinion shaft. The PTO pinion shaft is a shaft with a 19 tooth (B) and 16 tooth gear (C) machined as a single part. These gears are in constant mesh with the 61 tooth (D) and 71 tooth gear (E) which freely rotate on the PTO stub shaft, and rotate in a clockwise direction.

A shift collar (F) is splined to the PTO stub shaft (G). If the shift collar is centered, neither gear set is engaged. The shift collar is moved forward or backward by the external shift linkage to engage one or the other of the two sets of gears. The ratio of the gears determines the two output speeds of the rear PTO.

The rear PTO always turns clockwise when looking at the end of the PTO shaft from the rear of the machine. The rear PTO runs independently of the machine forward or rearward motion, or rate of travel. Speed of the PTO is dependent on engine RPM and which set of gears is selected and engaged. The rear PTO is limited to approximately 585 RPM or 809 RPM at maximum engine speed.

→NOTE:

The 71T gear is powered continuously when the PTO clutch is engaged. The mid PTO is powered from the 71T gear and can be operated independently from the 2 speed rear PTO.





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