

TRANSAXLE OPERATION PEERLESS MODELS 915-012A/915-012B

**STX30 (SN 135159—160758) &
STX38 (SN 139615—185586)**

Function:

The transaxle transmits power from the engine, through the belt traction drive system, into the transaxle gear matrix, and out the drive axles to the rear wheels. The transaxle provides a gear selection of five forward speeds and one reverse speed.

It also provides the means to interrupt the flow of power when shifted into neutral.

Major Components:

- Transaxle drive sheave
- Input shaft and pinion gear
- Beveled drive gear, drive shaft with small drive chain sprocket, drive chain, and drive gears
- Intermediate shifter/brake shaft with shifter fork, shift collar, shift keys, large drive chain sprocket/ reverse gear, drive chain, and transfer gears
- Idler shaft and combination gear
- Differential gears and axle shafts
- Wheels and tires.

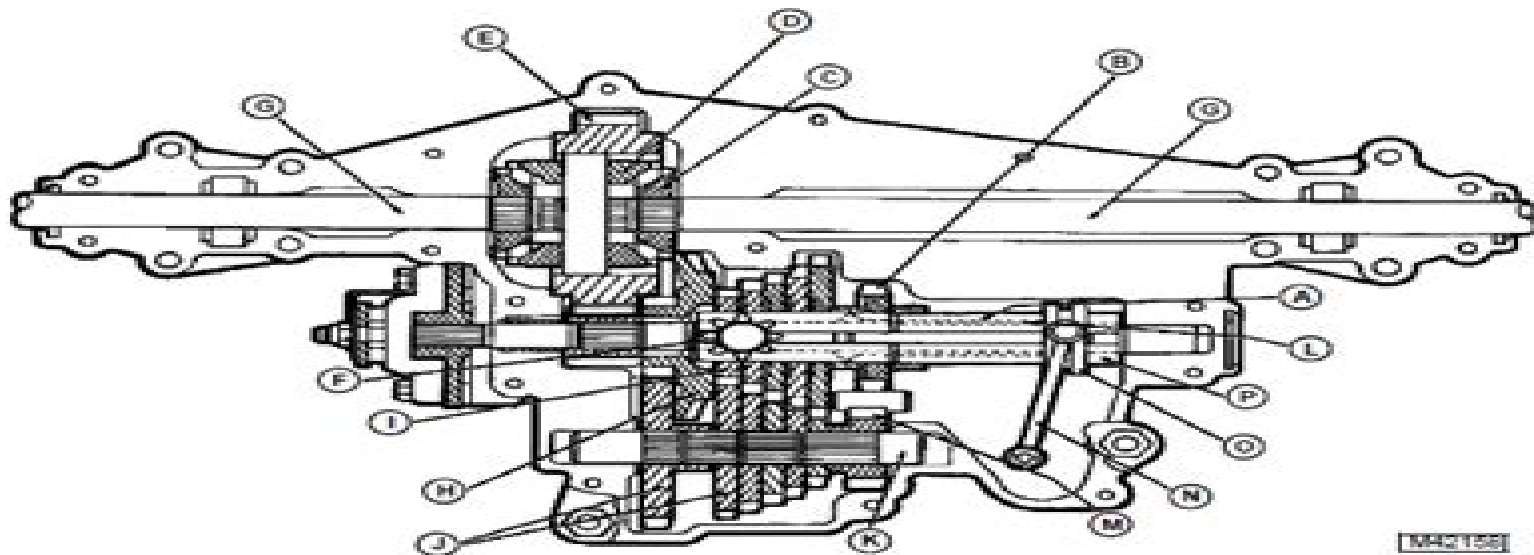
Theory of Operation:

Forward:

The transaxle input sheave is keyed to the input pinion (F). The input pinion (F) drives the bevel input gear (H). The bevel input gear (H) rotates independently of the shifter/brake shaft (A) but constantly rotates the drive shaft (K) and gears (J). When a forward gear is selected, the shift fork (N) moves the shift spool (O) and shift fingers (L) in alignment with one of the driven gears (I). The shift fingers (L) lock the selected driven gear (J) to the driven shaft (P). Power is then transmitted to the differential gear (E) and through the spider gear (D) and axle gear (C) to the axles (G).

Reverse:

When reverse gear (B) is selected, power is transmitted from the drive gears (J) and drive shaft (K), through the reverse idler (M). The reverse idler (M) changes the direction of rotation between the drive gears (J) and the reverse gear (B), rotating the shifter/brake shaft (A) in the opposite direction.



1M42155

John Deere Stx38 Manual Transmission

Robert Bowen



John Deere Stx38 Manual Transmission:

Consumers Index to Product Evaluations and Information Sources ,1990 **John Deere STX30 and STX38 Lawn Tractors Operator's Manual**|**Lawn Tractors Operator's Manual** Deere John, **Operator's Manual** ,1991

John Deere Utility Transmissions Deere & Company,1982 **How To Rebuild and Modify Your Manual Transmission** Robert Bowen, This resource explains how to rebuild and modify transmissions from both rear and front wheel drive cars It explains the principles behind the workings of all manual transmissions and helps readers understand what they need to do and know to rebuild their own transmissions Includes how to determine what parts to replace how and why to replace certain seals spacers springs forks and other parts and where to find and how to measure the specifications for each particular transmission *How to Build and Modify High-Performance Manual Transmissions* Paul Cangialosi,2008 How to Build and Modify High Performance Manual Transmissions by author Paul Cangialosi is a complete guide to all transmissions manual including theory and design disassembly inspection rebuilding tips and techniques and performance modifications Borg Warner T 10s ST 10s and T 5s are covered as well as Ford Top Loaders Chrysler A833s and GM Muncies Peripheral systems are covered as well including clutches speedometers assemblies as well as shifters and shifter modifications Also included are tables speedometer ratios for GM cars torque specs oil capacities and ratio charts of all the popular transmissions If you have any plan for rebuilding or improving your manual transmission this is the book for you

Direct and General Support Maintenance Manual ,1971 Today's Technician Jack Erjavec,1997 The second edition of this best selling title in the Today s Technician series has all the elements characteristic in the Today s Technician series The classroom manual provides all necessary theory to understand manual transmission while the shop manual provides hands on experience New job sheets have been added to the shop manual to aid in student retention and comprehension Furthermore new material has been added to the basics of electricity and electronics as it relates to drive train systems and new coverage of six speed transmissions new differential gearing inertia flywheel systems shift blocking and new 4 wheel drive and all wheel drive systems *How to Rebuild and Modify High-Performance Manual Transmissions* Paul Cangialosi,2010 How to Rebuild and Modify High Performance Manual Transmissions breaks down the disassembly inspection modification upgrade and rebuilding process into detailed yet easy to follow steps consistent with our other Workbench series books The latest techniques and insider tips are revealed so an enthusiast can quickly perform a tear down identify worn parts select the best components and successfully assemble a high performance transmission Transmission expert and designer Paul Cangialosi shares his proven rebuilding methods insight and 27 years of knowledge in the transmission industry He guides you through the rebuilding process for most major high performance transmissions including BorgWarner T10 and super T10 GM Muncie Ford Toploader and Tremec T5 This new edition also contains a complete step by step rebuild of the Chrysler A833 transmission **Ise Today's Technician: Manual Transmissions and**

T Erjavec,2010-02-01 Covers two year post secondary automotive technology programs **John Deere 830 Tractor Parts Manual** ,1961-03-15 Classroom Manual for Today's Technician Automatic Transmissions and Transaxels Jack Erjavec,2010-02 *Manual Transmissions & Transaxles: Shop manual* Jack Erjavec,2011 *General Motors Automatic Transmission Overhaul* John Haynes,2002-02-21 Covers rear wheel drive transmissions THM200 4R THM350 THM400 and THM700 R4 and front wheel drive transaxles THM125 125C THM3T40 THM440 T4 and THM4T60 *Manual Transmissions and Transaxles* Jack Erjavec,1994-01-01 Today's Technician: Manual Transmissions and Transaxles Classroom Manual and Shop Manual Jack Erjavec,Michael Ronan,2018-12-17 Reflecting the latest ASE Education Foundation standards the fully updated Seventh Edition of TODAY S TECHNICIAN MANUAL TRANSMISSIONS TRANSAXLES covers must know topics including dual clutch systems limited slip differential designs and all wheel drive systems as well as essential safety concepts and major components of the transmission system and subsystems New material throughout the text gives readers an up to date understanding of the latest automotive technology and key advances in the fast changing automotive industry The authors have revised sections on electronic controls of transmissions transfer cases and differentials to feature the latest reprogramming techniques today s technicians need to know Covering both fundamental theory and practical job skills the text includes a Classroom Manual reviewing every topic for Manual Drive Train and Axles and a hands on Shop Manual with full color photo sequences and detailed job sheets including service and repair tasks based on the latest MLR AST and MAST task lists Important Notice Media content referenced within the product description or the product text may not be available in the ebook version UQ Explorer Repair Manual Ford Motor Company,1998 **Today's Technician** Jack Erjavec,1995-01-01 *Today's Technician: Manual Transmissions and Transaxles Classroom Manual* JACK.
 ERJAVEC,Michael Ronan,2025-08 John Deere Shop Manual 520 530 620 630 720 + Penton Staff,2000-05-24 Models 520 530 620 630 720 730

This book delves into John Deere Stx38 Manual Transmission. John Deere Stx38 Manual Transmission is a crucial topic that needs to be grasped by everyone, ranging from students and scholars to the general public. This book will furnish comprehensive and in-depth insights into John Deere Stx38 Manual Transmission, encompassing both the fundamentals and more intricate discussions.

1. This book is structured into several chapters, namely:
 - Chapter 1: Introduction to John Deere Stx38 Manual Transmission
 - Chapter 2: Essential Elements of John Deere Stx38 Manual Transmission
 - Chapter 3: John Deere Stx38 Manual Transmission in Everyday Life
 - Chapter 4: John Deere Stx38 Manual Transmission in Specific Contexts
 - Chapter 5: Conclusion
2. In chapter 1, this book will provide an overview of John Deere Stx38 Manual Transmission. This chapter will explore what John Deere Stx38 Manual Transmission is, why John Deere Stx38 Manual Transmission is vital, and how to effectively learn about John Deere Stx38 Manual Transmission.
3. In chapter 2, the author will delve into the foundational concepts of John Deere Stx38 Manual Transmission. This chapter will elucidate the essential principles that need to be understood to grasp John Deere Stx38 Manual Transmission in its entirety.
4. In chapter 3, the author will examine the practical applications of John Deere Stx38 Manual Transmission in daily life. The third chapter will showcase real-world examples of how John Deere Stx38 Manual Transmission can be effectively utilized in everyday scenarios.
5. In chapter 4, the author will scrutinize the relevance of John Deere Stx38 Manual Transmission in specific contexts. This chapter will explore how John Deere Stx38 Manual Transmission is applied in specialized fields, such as education, business, and technology.
6. In chapter 5, the author will draw a conclusion about John Deere Stx38 Manual Transmission. This chapter will summarize the key points that have been discussed throughout the book.

The book is crafted in an easy-to-understand language and is complemented by engaging illustrations. It is highly recommended for anyone seeking to gain a comprehensive understanding of John Deere Stx38 Manual Transmission.

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John Deere Stx38 Manual Transmission Introduction

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