# Z720E, Z735E, Z730M, Z735M, and Z740R Mid-Mount Z-Trak TM (Serial No. 010001 - )

# **TECHNICAL MANUAL**

Mid-Mount Z-Trak™ Z720E, Z735E, Z730M, Z735M, and Z740R

TM155119 23MAY19 (ENGLISH)



### Introduction

#### **Foreword**

This manual is written for an experienced technician. Essential tools required in performing certain service work are identified in this manual and are recommended for use.

Live with safety: Read the safety messages in the introduction of this manual and the cautions presented throughout the text of the manual.

This is the safety-alert symbol. When you see this symbol on the machine or in this manual, be alert to the potential for personal injury.

Technical manuals are divided in two parts: repair and operation and tests. Repair sections tell how to repair the components. Operation and tests sections help you identify the majority of routine failures quickly.

Information is organized in groups for the various components requiring service instruction. At the beginning of each group are summary listings of all applicable essential tools, service equipment and tools, other materials needed to do the job, service parts kits, specifications, wear tolerances, and torque values.

Technical Manuals are concise guides for specific machines. They are on-the-job guides containing only the vital information needed for diagnosis, analysis, testing, and repair.

Fundamental service information is available from other sources covering basic theory of operation, fundamentals of troubleshooting, general maintenance, and basic type of failures and their causes.

DX,TMIFC -19-15APR14-1/1

TM155119 (23MAY19)

# Contents

#### Section 10—General Information

Group 10—Safety

Group 20—General Specifications

Group 30—Fuel and Lubricants

Group 40—Machine Specifications

#### Section 20—Engine Repair Briggs & Stratton

Group 10—Engine—Briggs & Stratton 49J677

#### Section 30—Engine Repair Kawasaki

Group 10—Engine—Kawasaki General Repair

Group 20—Engine—Kawasaki FR691V, FS730V

Group 30—Engine—Kawasaki FX730V

#### Section 40—Fuel and Air Repair

Group 10—Carburetor—Briggs & Stratton

Group 20—Carburetor—Kawasaki FR691V, FS730V

Group 30—Carburetor—Kawasaki FX730V

Group 40—Air Intake and Exhaust Systems

Group 50—Fuel System

#### Section 50—Electrical Repair

Group 10—Wiring Harnesses

Group 20—Electrical Repair

#### Section 60—Power Train Repair

Group 10—Power Train Repair

#### Section 70—Attachments Repair

Group 10—Attachments Repair

#### Section 80—Miscellaneous Repair

Group 10-Wheels

Group 20—Operators Station

#### Section 220—Engine Diagnosis, Tests, and Adjustments Briggs & Stratton

Group 10—Component Location

Group 20—Theory of Operation

Group 30—Diagnosis

Group 40—Tests and Adjustments

#### Section 230—Engine Diagnosis, Tests, and Adjustments Kawasaki

Group 10—Component Location

Group 20—Theory of Operation

Group 30—Diagnosis

Group 40—Tests and Adjustments

#### Section 240—Electrical Diagnosis, Tests, and Adjustments

Group 10—Component Location

Group 20—Theory of Operation

Group 30—Diagnosis

Group 40—Connectors

Group 50—Wiring Schematics

Group 60—Tests and Adjustments

#### Section 250—Power Train Diagnosis, Tests, and Adjustments

Group 10—Component Location

Group 20—Theory of Operation

Group 30—Diagnosis

Group 40—Tests and Adjustments

#### Section 260—Attachments Diagnosis, Tests, and Adjustments

Group 10—Component Location

Group 20—Theory of Operation Group 30—Diagnosis

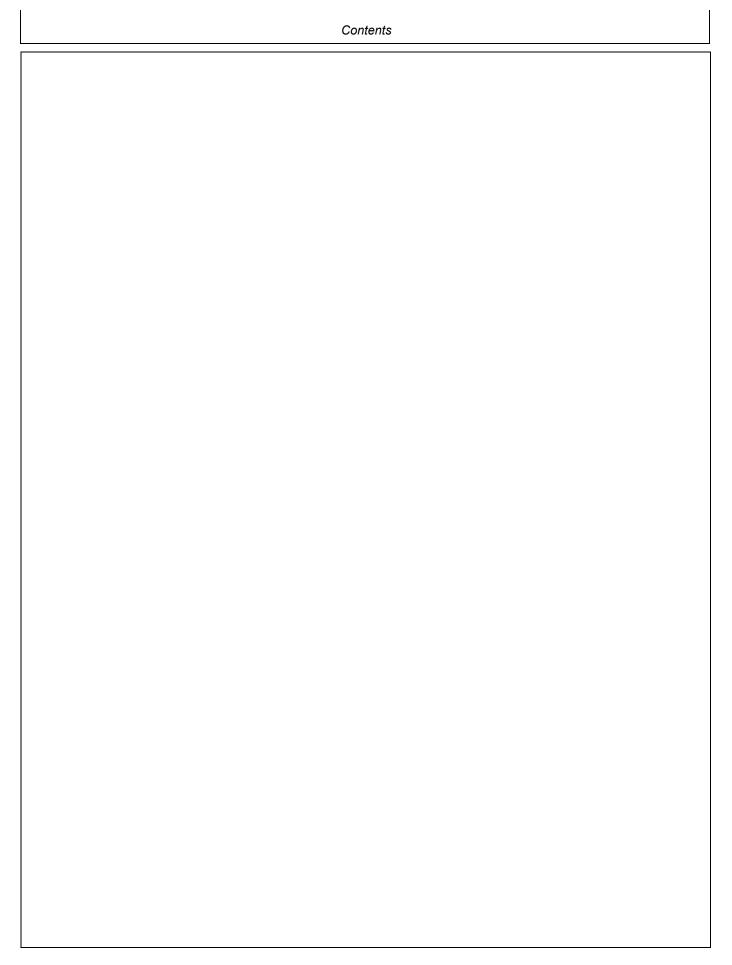
Group 40—Tests and Adjustments

#### Section 299—Service Tools and Kits

Group 10—Service Equipment, Tools, and Kits

Original Instructions. All information, illustrations and specifications in this manual are based on the latest information available at the time of publication. The right is reserved to make changes at any time without notice.

> COPYRIGHT © 2019 DEERE & COMPANY
> Moline, Illinois
> All rights reserved.
> A John Deere ILLUSTRUCTION ™ Manual



# Section 10 General Information

# Contents

	Page	
Group 10—Safety		
Recognize Safety Information	10-10-1	
Understand Signal Words		Group 40—Machine Specific
Follow Safety Instructions	10-10-1	Machine Specifications Z720E
Practice Safe Maintenance		Z730M, Z740R
Use Proper Tools		Machine Specifications Z735E
Handle Fluids Safely—Avoid	10-10-2	Z735M
Fires	10 10 2	Product Identification Number
Drain Casalina Whan Storing	10-10-3	Location
Drain Gasoline When Storing	10 10 2	Location
Machine		
Handling Batteries Safely		
Prepare for Emergencies		
Parking Safely	10-10-5	
Support Machine Properly	10-10-5	
Wear Protective Clothing		
Work in Clean Area		
Service Machines Safely		
Work In Ventilated Area		
Illuminate Work Area Safely		
Replace Safety Signs		
Use Proper Lifting Equipment		
Follow Tire Recommendations	10-10-7	
Decommissioning — Proper		
Recycling and Disposal of Fluids		
and Components	10-10-8	
Protect Against High Pressure		
Spray	10-10-8	
Live With Safety	10-10-9	
0 00 0 10 15 15		
Group 20—General Specifications Metric Cap Screw Torque		
	40.00.4	
Values—Grade 7	10-20-1	
Metric Bolt and Screw Torque	40.00.0	
Values	10-20-2	
Unified Inch Bolt and Screw Torque		
Values	10-20-3	
Group 30—Fuel and Lubricants		
Summary of References	10-30-1	
Gasoline Engine Oil		
Oil Filters		
Gasoline Fuel for 4-Cycle		
Engines	10-30-2	
Transaxle Oil	10-30-2	
Grease		
Mower Spindle Grease		
Mixing of Lubricants		
	10-30-3	
Alternative and Synthetic	10 20 2	
Lubricants		
Lubricant Storage		
Gasoline and Engine Storage		
Carburetor Cleaning		
Carburetor Cleaning Methods	10-30-6	

	raye
Group 40—Machine Specifications	
Machine Specifications Z720E,	
Z730M, Z740R	10-40-1
Machine Specifications Z735E,	
Z735M	10-40-2
Product Identification Number	
Location	10-40-3



Thank you very much for your reading.

Please click here to get more information.