

# 5045E, 5055E, 5065E and 5075E (FT4) Tractors Repair Technical Manual

(Serial .No. 103101— )



JOHN HARE



COLLECTION

## REPAIR TECHNICAL MANUAL 5045E, 5055E, 5065E and 5075E Tractors

(S.No. 103101— )

TM902519 01DEC18 (ENGLISH)

For complete service information also see:

5045E, 5055E, 5065E and 5075E (FT4) Tractors Diagnostic Technical Manual (North America) .....	TM902419
PowerTech 2.9 LFinal Tier 4/Stage IV Platform - Level 23 ECU .....	CTM120619
Alternators and Starting Motors.....	CTM77
725, 730, 733, 735, 740, 745, 750, 755 and 755HD Front Drive Axles, 2-Piece DANA .....	CTM4820
00.16, 20.09, 20.09C, 20.11, 20.16, G20.16 and G20.09 FrontWheel Drive Axles.....	CTM370
9x3 SyncShuttle™ Transmission - Jo Works .....	
12x12 and 24x12 PowrReverser™ Transmissio Deere Pune Works .....	

PDF



DOWNLOAD



John Deere India Pvt. Ltd

## 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.



### CAUTION:

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-19-20140415

## **Section 10 - General Information**

[Group 05 - Safety](#)

[Group 10 - General Specifications \(9x3 TSS Transmission\)](#)

[Group 11 - General Specifications \(12x12 PR Transmission\)](#)

[Group 15 - Fuel and Lubricants](#)

[Group 20 - Serial Number Locations](#)

[Group 25 - Features and Accessories](#)

## **Section 20 - Engine Repair**

[Group 05 - Engine](#)

[Group 30 - Cooling System](#)

## **Section 30 - Fuel, Air Intake and Exhaust Systems**

[Group 05 - Fuel System](#)

[Group 10 - Air Intake System](#)

[Group 15 - Exhaust System](#)

## **Section 40 - Electrical Repair**

[Group 05 - Battery, Starter and Alternator](#)

[Group 10 - Electrical System Components](#)

[Group 15 - Wiring Harness](#)

## **Section 50 - Power Train Repair (12x12 PR Transmission)**

[Group 05 - Clutch Housing](#)

[Group 10 - Clutch Assembly](#)

[Group 15 - Transmission](#)

[Group 21 - Rear PTO](#)

[Group 26 - Differential](#)

[Group 30 - Final Drives](#)

[Group 35 - Mechanical Front Wheel Drive](#)

## **Section 51 - Power Train Repair (9x3 TSS Transmission)**

[Group 05 - Clutch Housing](#)

[Group 10 - Clutch Assembly](#)

[Group 15 - Transmission](#)

[Group 21 - Rear PTO](#)

[Group 26 - Differential](#)

[Group 30 - Final Drives](#)

[Group 35 - Mechanical Front Wheel Drive](#)

## **Section 60 - Steering and Brake Repair**

[Group 05 - Steering Repair](#)

[Group 10 - Brake Repair](#)

## **Section 70 - Hydraulic Repair**

[Group 05 - Hydraulic Pump and Filter](#)

[Group 15 - JD Rockshaft](#)

[Group 25 - EATON Selective Control Valve \(SCV\)](#)

[Group 30 - Mid Mount Selective Control Valve \(SCV\)](#)

## **Section 80 - Miscellaneous Repair**

[Group 05 - Front Axle](#)

[Group 10 - Wheels](#)

[Group 15 - 3-Point Hitch](#)

[Group 25 - Hood](#)

## **Section 90 - Operator Station Repair (OOS)**

[Group 05 - Seat and Support](#)

[Group 06 - Center Console](#)

[Group 10 - Roll-Gard™](#)

[Group 15 - Operator Platform](#)

[Group 20 - Fenders](#)

[Group 25 - Canopy \(If Equipped\)](#)

## **Section 91 - Operator Station Repair (Cab)**

[Group 05 - Seat and Support](#)

[Group 10 - Control Console](#)

[Group 20 - Cab Components](#)

[Group 30 - Air Conditioning System](#)

[Group 35 - Heating System](#)

# Section 10

## General Information

### Contents

	Page		Page
<b>Group 05 - Safety</b>		<a href="#">Glossary of Terms .....</a>	<a href="#">10-11-8</a>
<a href="#">Recognize Safety Information .....</a>	<a href="#">10-05-1</a>	<b>Group 15 - Fuel and Lubricants</b>	
<a href="#">Understand Signal Words .....</a>	<a href="#">10-05-1</a>	<a href="#">Diesel Fuel .....</a>	<a href="#">10-15-1</a>
<a href="#">Follow Safety Instructions .....</a>	<a href="#">10-05-1</a>	<a href="#">Handling and Storing Diesel Fuel .....</a>	<a href="#">10-15-1</a>
<a href="#">Handle Fluids Safely - Avoid Fires .....</a>	<a href="#">10-05-2</a>	<a href="#">Lubricity of Diesel Fuel .....</a>	<a href="#">10-15-2</a>
<a href="#">Prevent Battery Explosions .....</a>	<a href="#">10-05-2</a>	<a href="#">Testing Diesel Fuel .....</a>	<a href="#">10-15-2</a>
<a href="#">Prepare for Emergencies .....</a>	<a href="#">10-05-2</a>	<a href="#">BioDiesel Fuel .....</a>	<a href="#">10-15-3</a>
<a href="#">Prevent Acid Burns .....</a>	<a href="#">10-05-3</a>	<a href="#">Do Not Use Galvanized Containers .....</a>	<a href="#">10-15-4</a>
<a href="#">Service Cooling System Safely .....</a>	<a href="#">10-05-0</a>	<a href="#">Fill Fuel Tank .....</a>	<a href="#">10-15-4</a>
<a href="#">Avoid High-Pressure Fluids .....</a>	<a href="#">10-05-3</a>	<a href="#">Diesel Engine Break-In Oil - Non-Emissions Certified and Certified Tier 1, Tier 2, Tier 3, Stage I, Stage II, and Stage III .....</a>	<a href="#">10-15-5</a>
<a href="#">Park Machine Safely .....</a>	<a href="#">10-05-3</a>	<a href="#">Diesel Engine Oil - Interim Tier 4, Final Tier 4, Stage IIIB, and Stage IV .....</a>	<a href="#">10-15-5</a>
<a href="#">Support Machine Properly .....</a>	<a href="#">10-05-4</a>	<a href="#">Oil Filters .....</a>	<a href="#">10-15-5</a>
<a href="#">Wear Protective Clothing .....</a>	<a href="#">10-05-4</a>	<a href="#">Diesel Engine Coolant (engine with wet sleeve cylinder liners) .....</a>	<a href="#">10-15-6</a>
<a href="#">Work in Clean Area .....</a>	<a href="#">10-05-4</a>	<a href="#">Operating in Warm Temperature Climates .....</a>	<a href="#">10-15-6</a>
<a href="#">Service Machines Safely .....</a>	<a href="#">10-05-4</a>	<a href="#">Water Quality for Mixing with Coolant Concentrate .....</a>	<a href="#">10-15-7</a>
<a href="#">Work In Ventilated Area .....</a>	<a href="#">10-05-5</a>	<a href="#">Testing Coolant Freeze Point .....</a>	<a href="#">10-15-7</a>
<a href="#">Illuminate Work Area Safely .....</a>	<a href="#">10-05-5</a>	<a href="#">Transmission and Hydraulic Oil .....</a>	<a href="#">10-15-8</a>
<a href="#">Replace Safety Signs .....</a>	<a href="#">10-05-5</a>	<a href="#">Additional Information About Diesel Engine Coolants and John Deere LIQUID COOLANT CONDITIONER .....</a>	<a href="#">10-15-9</a>
<a href="#">Use Proper Lifting Equipment .....</a>	<a href="#">10-05-5</a>	<a href="#">Use Correct Transmission/Hydraulic Filter Element .....</a>	<a href="#">10-15-9</a>
<a href="#">Service Tires Safely .....</a>	<a href="#">10-05-6</a>	<a href="#">Gear Oil .....</a>	<a href="#">10-15-10</a>
<a href="#">Avoid Harmful Asbestos Dust .....</a>	<a href="#">10-05-6</a>	<a href="#">Grease .....</a>	<a href="#">10-15-10</a>
<a href="#">Avoid Heating Near Pressurized Fluid Lines .....</a>	<a href="#">10-05-6</a>	<a href="#">Mixing of Lubricants .....</a>	<a href="#">10-15-10</a>
<a href="#">Remove Paint Before Welding or Heating .....</a>	<a href="#">10-05-7</a>	<a href="#">Alternative and Synthetic Lubricants .....</a>	<a href="#">10-15-11</a>
<a href="#">Use Proper Tools .....</a>	<a href="#">10-05-7</a>	<a href="#">Lubricant Storage .....</a>	<a href="#">10-15-11</a>
<a href="#">Dispose of Waste Properly .....</a>	<a href="#">10-05-7</a>	<b>Group 20 - Serial Number Locations</b>	
<a href="#">Live With Safety .....</a>	<a href="#">10-05-8</a>	<a href="#">Serial Numbers .....</a>	<a href="#">10-20-1</a>
<b>Group 10 - General Specifications (9x3 TSS Transmission)</b>		<a href="#">Product Identification Number .....</a>	<a href="#">10-20-1</a>
<a href="#">Machine Specifications .....</a>	<a href="#">10-10-1</a>	<a href="#">Record Engine Serial Number .....</a>	<a href="#">10-20-1</a>
<a href="#">Repair Specifications .....</a>	<a href="#">10-10-2</a>	<a href="#">Fuel Injection Pump Serial Number .....</a>	<a href="#">10-20-1</a>
<a href="#">Ground Speed Estimates - Sync Shuttle Transmission .....</a>	<a href="#">10-10-3</a>	<a href="#">Alternator Serial Number Location .....</a>	<a href="#">10-20-1</a>
<a href="#">Service Recommendations for O-Ring Boss Fittings .....</a>	<a href="#">10-10-4</a>	<a href="#">Power Steering Valve Serial Number Location .....</a>	<a href="#">10-20-2</a>
<a href="#">Service Recommendations for Flat Face O-Ring Seal Fittings .....</a>	<a href="#">10-10-5</a>	<a href="#">Starter Serial Number Location .....</a>	<a href="#">10-20-2</a>
<a href="#">Metric Bolt and Cap Screw Torque Values .....</a>	<a href="#">10-10-6</a>	<a href="#">Transaxle Serial Number Location (12x12 PR Transmission) .....</a>	<a href="#">10-20-2</a>
<a href="#">Unified Inch Bolt and Cap Screw Torque Values ...</a>	<a href="#">10-10-7</a>	<a href="#">Record Front Axle (2-WD) Serial Number .....</a>	<a href="#">10-20-3</a>
<a href="#">Glossary of Terms .....</a>	<a href="#">10-10-8</a>	<a href="#">Record Mechanical Front Wheel Drive (MFWD) Serial Number .....</a>	<a href="#">10-20-3</a>
<b>Group 11 - General Specifications (12x12 PR Transmission)</b>		<b>Group 25 - Features and Accessories</b>	
<a href="#">Machine Specifications .....</a>	<a href="#">10-11-1</a>	<a href="#">Features and Accessories .....</a>	<a href="#">10-25-1</a>
<a href="#">Repair Specifications .....</a>	<a href="#">10-11-2</a>	<a href="#">Standard Features .....</a>	<a href="#">10-25-1</a>
<a href="#">Ground Speed Estimates - PowrReverser Transmission .....</a>	<a href="#">10-11-3</a>	<a href="#">Factory Installed Optional Equipment .....</a>	<a href="#">10-25-1</a>
<a href="#">Service Recommendations for O-Ring Boss Fittings .....</a>	<a href="#">10-11-4</a>	<a href="#">Field Installed Optional Kits and Accessories .....</a>	<a href="#">10-25-2</a>
<a href="#">Service Recommendations for Flat Face O-Ring Seal Fittings .....</a>	<a href="#">10-11-5</a>		
<a href="#">Metric Bolt and Cap Screw Torque Values .....</a>	<a href="#">10-11-6</a>		
<a href="#">Unified Inch Bolt and Cap Screw Torque Values ...</a>	<a href="#">10-11-7</a>		



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