# F710 and F725 Front Mowers



# TECHNICAL MANUAL

John Deere Lawn & Grounds Care Division TM1493 (Feb-95)

### **Contents**

#### SECTION 10—GENERAL INFORMATION

Group 05—Safety

Group 10—General Specifications

Group 15—Repair Specifications

Group 20-Fuels and Lubricants

Group 25—Serial Number Locations

Group 30—Features and Attachments

Group 35—Service Information Bulletin Listing

#### **SECTION 20—ENGINE REPAIR—F710**

Group 05—Engine—FC540V

Group 10-Muffler-F710

#### SECTION 25—ENGINE REPAIR—F725

Group 05-Engine-FD590V

Group 10-Muffler-F725

Group 15—Cooling System—F725

#### SECTION 30—FUEL AND AIR REPAIR—F710

Group 05-Fuel System-FC540V

Group 10-Air System-FC540V

#### SECTION 35—FUEL AND AIR REPAIR—F725

Group 05-Fuel System-FD590V

Group 10—Air System—FD590V

#### **SECTION 40—ELECTRICAL REPAIR**

Group 05—Battery and Cables

Group 10—Electrical System Components

Group 15—Electric PTO Clutch

Group 20 —Wiring Harness

#### **SECTION 50—POWER TRAIN REPAIR**

Group 05—Hydrostatic Transmission and

Differential Assembly

Group 10—Hydrostatic Transmission

Group 15—Differential Assembly

#### SECTION 60—STEERING AND BRAKE REPAIR

Group 05—Steering System Repair

Group 10-Brake Repair

#### **SECTION 70—HYDRAULIC REPAIR**

Group 05—Hydraulic Control Valve

Group 10—Hydraulic Lift Cylinder

Group 15—Hydrostatic Oil Cooler and Filter

Group 20—Hydraulic Lines

#### **SECTION 80—MISCELLANEOUS REPAIR**

Group 05-PTO Assembly

Group 10-Rear Axle

Group 15—Wheels and Bearings

Group 20-Seat

Group 25—Lift Arm Assembly

Group 30-Mower Deck Repair

#### **SECTION 210—TEST & ADJUSTMENT** SPECIFICATIONS/OPERATIONAL CHECKOUT PROCEDURE

Group 05—Test & Adjustment Specifications

Group 10—Operational Checkout Procedures

#### **SECTION 220—ENGINE OPERATION, TESTS AND ADJUSTMENTS - FC540V ENGINE**

Group 05—Component Location

Group 10—Theory of Operation

Group 15—Diagnosis, Tests & Adjustments

#### SECTION 225—ENGINE OPERATION, TESTS, **AND ADJUSTMENTS - FD590V ENGINE**

Group 05—Component Location

Group 10—Theory of Operation

Group 15—Diagnosis, Tests & Adjustments

#### SECTION 230—FUEL/AIR OPERATION TESTS & **ADJUSTMENTS - FC540V ENGINE**

Group 05—Component Location

Group 10—Theory of Operation

Group 15—Diagnosis, Tests & Adjustments

#### SECTION 235—FUEL/AIR OPERATION TESTS & **ADJUSTMENTS - FD590V ENGINE**

Group 05—Component Location

Group 10—Theory of Operation

Continued on next page

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.

TM1493-19-16JAN91

COPYRIGHT@1990 DEERE & COMPANY Moline, Illinois All rights reserved A John Deere ILLUSTRUCTION™ Manual

i TM1493 (16JAN91) 700 Series Front Mower

10

20

25

30

35

40

50

60

70

80

Group 15—Diagnosis, Tests & Adjustments

# SECTION 240—ELECTRICAL OPERATION TESTS & ADJUSTMENTS - FC540V ENGINE

Group 05—Component Location

Group 10—Theory of Operation

Group 15—Diagnosis, Tests & Adjustments

Group 20—Wiring Schematics

20

25

30

40

50

# SECTION 245—ELECTRICAL OPERATION TESTS & ADJUSTMENTS - FD590V engine

Group 05—Component Location

Group 10—Theory of Operation

Group 15—Diagnosis, Tests & Adjustments

Group 20—Wiring Schematics

### SECTION 250—POWER TRAIN OPERATION TESTS & ADJUSTMENTS

Group 05—Component Location

Group 10—Theory of Operation

Group 15—Diagnosis, Tests & Adjustments

## SECTION 260—STEERING & BRAKES OPERATION TESTS & ADJUSTMENTS

Group 05—Component Location

Group 10—Theory of Operation

Group 15—Diagnosis, Tests & Adjustments

### SECTION 270—HYDRAULIC OPERATION TESTS & ADJUSTMENTS

Group 05—Component Location

Group 10—Theory of Operation

Group 15—Diagnosis, Tests & Adjustments

Group 20—Hydraulic Schematic

### SECTION 280—MISCELLANEOUS OPERATION TESTS & ADJUSTMENTS

Group 05—Component Location

Group 10—Theory of Operation

Group 15—Diagnosis, Tests & Adjustments

Index

TM1493 (16JAN91) II 700 Series Front Mower

Thank you so much for reading.

Please click the "Buy Now!"

button below to download the complete manual.



After you pay.

You can download the most perfect and complete manual in the world immediately.

Our support email: ebooklibonline@outlook.com