

6620, Sidehill 6620 7720 and 8820 Combines



JOHN DEERE

TECHNICAL MANUAL 6620, Sidehill 6620 7720 and 8820 Combines

TM1202 (01JAN88) English

John Deere Harvester Works
TM1202 (01JAN88)

LITHO IN U.S.A.
ENGLISH



6620, SIDEHILL 6620, 7720 AND 8820 COMBINES

TECHNICAL MANUAL

TM-1202 (Jan-88)

CONTENTS

SECTION 10 - GENERAL

- Group 00 - General Specifications
- Group 05 - Diagnosing and Testing Procedures
- Group 10 - Tune-Up and Adjustment

SECTION 20 - ENGINE REPAIR

- Group 00 - Specifications and Special Tools
- Group 05 - Cylinder Head, Valves and Camshaft
- Group 10 - Block, Liners, Pistons, and Rods
- Group 15 - Crankshaft and Main Bearings
- Group 20 - Lubrication System
- Group 25 - Cooling System

SECTION 30 - FUEL AND AIR REPAIR

- Group 00 - Specifications and Special Tools
- Group 05 - Air Intake System
- Group 10 - Diesel Fuel System
- Group 15 - Control Linkage

SECTION 40 - ELECTRICAL REPAIR

- Group 00 - Specifications and Special Tools
- Group 05 - Harness Replacement
- Group 10 - Charging Circuit Repair
- Group 15 - Starting Circuit Repair
- Group 20 - Lights, Instruments, and Accessories

SECTION 50 - POWER TRAIN REPAIR

- Group 00 - Specifications and Special Tools
- Group 05 - Clutch
- Group 10 - Transmission
- Group 15 - Differential
- Group 20 - Final Drive
- Group 25 - Sundstrand Hydrostatic Drive
- Group 26 - Eaton Hydrostatic Drive
- Group 30 - 4-Wheel Drive (Planetary Gearing)
- Group 31 - 4-Wheel Drive (Cam Lobe)
- Group 35 - Posi-Torq Ground Drive
- Group 40 - Tires and Wheels

SECTION 60 - STEERING/BRAKES REPAIR

- Group 00 - Specifications and Special Tools
- Group 05 - Power Steering
- Group 10 - Brakes

SECTION 70 - HYDRAULIC REPAIR

- Group 00 - Specifications
- Group 05 - Reservoir
- Group 10 - Hydraulic Pump
- Group 15 - Hydraulic Valves
- Group 20 - Hydraulic Cylinders
- Group 25 - Hydraulic Motors
- Group 30 - Accumulator

SECTION 80 - SEPARATOR SHELL REPAIR

- Group 00 - Specifications
- Group 05 - Rear Hood
- Group 10 - Cylinder Rear Cover
- Group 15 - Separator Uprights

SECTION 90 - OPERATOR STATION REPAIR

- Group 00 - Specifications and Special Tools
- Group 05 - Air Conditioning System
- Group 10 - Air Intake (Pressurizer) System
- Group 15 - Heating System
- Group 20 - Personal Posture Seat
- Group 25 - Miscellaneous Components

SECTION 100 - HEADER REPAIR

- Group 00 - Specifications and Special Tools
- Group 05 - 200 and 900 Series Cutting Platforms
- Group 10 - 40 Series Corn Heads
- Group 15 - 50, 50A Series Row-Crop Heads

SECTION 110 - FEEDER HOUSE REPAIR

- Group 00 - Specifications and Special Tools
- Group 05 - Feeder Conveyor Chain
- Group 10 - Feeder Conveyor Drum
- Group 15 - Feeder House Drives and Reverser Gear Case
- Group 20 - Feeder House Drives (SideHill 6620 Combines) (-610300)
- Group 25 - Feeder House Paddles, Stripper and Front Closure Sheets (SideHill 6620 Combines [-403300])
- Group 30 - Feeder Conveyor Chain, Upper Shaft, Paddle and Shaft, Conveyor Drum and Front Closure Sheets (SideHill 6620 Combines [403301-])

SECTION 120 - SEPARATOR REPAIR

- Group 00 - Specifications and Special Tools
- Group 05 - Cylinder, Concave, and Beater
- Group 10 - POSI-TORQ™ Cylinder Drive
- Group 12 - Dual-Range Cylinder Drive
- Group 15 - Straw Walkers and Crankshafts
- Group 20 - Straw Chopper and Straw Spreader
- Group 25 - Shoe Augers, Fan, and Shoe Frame
- Group 30 - Tailings Elevator and Augers
- Group 35 - Lower Auger, Clean Grain Elevator, and Grain Tank Loading Auger

SECTION 130 - GRAIN TANK UNLOADING SYSTEM

- Group 00 - Specifications
- Group 05 - Grain Tank Cross Augers
- Group 10 - Vertical Auger and Bevel Gears
- Group 15 - Horizontal Auger and Gearcase

CONTENTS

SECTION 140 - MAJOR DRIVES REPAIR

- Group 00 - Specifications
- Group 05 - Engine Powershaft
- Group 10 - Primary Countershaft
- Group 15 - Secondary Countershaft

SECTION 150 - SIDEHILL LEVELING SYSTEM REPAIR

- Group 00 - Specifications and Special Tools
- Group 05 - Electrical Components
- Group 10 - Hydraulic Components

SECTION 160 - AUTOMATIC HEADER HEIGHT CONTROL REPAIR

- Group 00 - Specifications and Special Tools
- Group 05 - Repair of Components

SECTION 220 - ENGINE OPERATION AND TESTS

- Group 00 - Specifications and Special Tools
- Group 05 - System Operation
- Group 10 - System Tests and Diagnosis

SECTION 230 - FUEL/AIR OPERATION AND TESTS

- Group 00 - Specifications and Special Tools
- Group 05 - Air Intake System
- Group 10 - Diesel Fuel System
- Group 15 - Control Linkage

SECTION 240 - ELECTRICAL OPERATION AND TESTS

- Group 00 - Specifications and Special Tools
- Group 05 - General Information and Diagnosis
- Group 06 - Electrical System Diagnosis
- Group 10 - Charging Circuit
- Group 15 - Starting Circuit
- Group 20 - Lights, Instruments and Accessory Circuits

SECTION 250 - POWER TRAIN OPERATION AND TESTS

- Group 00 - Specifications and Special Tools
- Group 05 - Clutch Diagnosis
- Group 10 - Transmission Diagnosis
- Group 15 - Final Drive Diagnosis
- Group 20 - Hydrostatic Drive Tests and Diagnosis
- Group 25 - 4-Wheel Drive Diagnosis (Planetary Gearing)
- Group 26 - 4-Wheel Drive (Cam Lobe)
- Group 30 - Posi-Torq Ground Drive Diagnosis

SECTION 260 - STEERING/BRAKES OPERATION AND TESTS

- Group 05 - Power Steering
- Group 10 - Brakes

SECTION 270 - HYDRAULIC OPERATION AND TESTS

- Group 00 - Specifications and Special Tools
- Group 01 - Hydraulic System Operation
- Group 05 - Hydraulic System Tests
- Group 10 - Reservoir
- Group 15 - Hydraulic Pumps
- Group 20 - Hydraulic Valves
- Group 25 - Hydraulic Cylinders
- Group 30 - Hydraulic Motors
- Group 35 - Accumulator

SECTION 290 - OPERATOR STATION OPERATION AND TESTS

- Group 00 - Specifications and Special Tools
- Group 05 - Air Conditioning System
- Group 10 - Heating System

SECTION 350 - SIDEHILL LEVELING SYSTEM OPERATION AND TESTS

- Group 00 - Specifications and Special Tools
- Group 05 - General Information, Diagnosis, and Tests
- Group 10 - Electrical System
- Group 15 - Hydraulic System

SECTION 360 - AUTOMATIC HEADER HEIGHT CONTROL OPERATION AND TESTS

- Group 00 - Specifications and Special Tools
- Group 05 - General Information, Diagnosis, and Tests
- Group 10 - Mechanical System
- Group 15 - Electrical System
- Group 20 - Hydraulic System
- Group 25 - General Information, Diagnosis, and Tests - DIAL-A-MATIC™
- Group 30 - Mechanical System - DIAL-A-MATIC
- Group 35 - Electrical System - DIAL-A-MATIC
- Group 40 - Hydraulic System - DIAL-A-MATIC

All information, illustrations and specifications contained in this technical 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.

The specifications given in this technical manual are intended for service only. They do not include normal factory manufacturing tolerances.

Copyright© 1988 Deere & Company
Moline, Illinois All rights reserved.

Previous Editions
Copyright© 1987, 1986, 1985, 1984, 1983, 1982, 1981, 1980,
1979, and 1978 Deere & Company

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