

John Deere

CLICK ANYWHERE FOR MORE DETAILS

MODEL:

6620 & Sidehill 6620

7720 & 8820 Combines

MANUAL PREVIEW

JENSALES
OPERATOR'S
MANUAL

purchase full manual

JENSALES.COM
or Call 800-443-0625

CLICK ANYWHERE FOR MORE DETAILS

THIS IS A MANUAL PRODUCED BY JENSALES INC. WITHOUT THE AUTHORIZATION OF
JOHN DEERE OR IT'S SUCCESSORS. JOHN DEERE AND IT'S SUCCESSORS
ARE NOT RESPONSIBLE FOR THE QUALITY OR ACCURACY OF THIS MANUAL.

TRADE MARKS AND TRADE NAMES CONTAINED AND USED HEREIN ARE THOSE OF OTHERS,
AND ARE USED HERE IN A DESCRIPTIVE SENSE TO REFER TO THE PRODUCTS OF OTHERS.

JD-O-OMH133890

6620

SideHill 6620

7720 and

8820 Combines

CLICK ANYWHERE FOR MORE DETAILS

MANUAL PREVIEW

OPERATORS MANUAL

**6620 SideHill 6620 7720 and 8820
Combines**

OMH133890 Issue J7 English

JENSALES®

purchase full manual at

JENSALES.COM

or Call 800-443-0625

John Deere Harvester Works

OMH133890 Issue J7

CLICK ANYWHERE FOR MORE DETAILS

**LITHO IN U.S.A.
ENGLISH**

Contents

CLICK ANYWHERE FOR MORE DETAILS

	Page
Contents	00-01
Safety	05-01
Safety Decal and Reflector Location	06-01
Operator's Station	10-01
Engine Break-In	15-01
Prestarting Checks	20-01
Operating the Engine	25-01
Driving the Combine	30-01
Transporting	35-01
Lighting and Signals	40-01
Fuels and Lubricants	45-01
Lubrication and Maintenance	50-01
Fundamentals of Combine Harvesting	55-01
Headers	60-01
Feeder House	65-01
Separator	70-01
Grain Tank and Unloading Auger	75-01
Engine Service	80-01
Electrical System	85-01
Monitors	90-01
Hydraulic System	95-01
SideHill Leveling System	100-01
Power Train	105-01
Air Conditioner and Heater	110-01
Trouble Shooting	115-01
Storage	120-01
Crime Prevention	125-01
Specifications	130-01
Index	135-01

JENSALES.COM
or Call 800-443-0625

CLICK ANYWHERE FOR MORE DETAILS



Replacing Panel Bulbs

H37718

Instrument Panel Indicator Lights

1. Remove fuel shut off knob and nut on cable.
2. Remove seven screws and pull out instrument panel.
3. Remove bulb socket from back of instrument cluster by turning counterclockwise. Remove bulb from socket by pulling straight out.
4. Press new bulb firmly into socket, and install socket in instrument panel. Reinstall panel with seven screws and replace fuel shut off knob.

IMPORTANT: Fuel shut off knob must not contact instrument panel when pushed in.

Cylinder Speed Tachometer and Gauge Lights

1. Remove fuel shut off knob and nut on cable.
2. Remove seven attaching screws and pull out instrument panel.
3. Unplug bulb socket from rear of cylinder speed tachometer or gauge.
4. Press bulb slightly inward and twist counterclockwise to remove. Reinstall panel with seven screws and replace fuel shut off knob.

IMPORTANT: Fuel shut off knob must not contact instrument panel when pushed in. ®

Field Lights and Headlights

1. Pull off rubber bezel.
2. Use a screwdriver to pry out bulb.
3. Disconnect wires and install new bulb.



Removing Field Light or Headlight Bulb

H30196Y

JENSALLES.COM
or Call 800-443-0625

CLICK ANYWHERE FOR MORE DETAILS

Fundamentals of Combine Harvesting

CLICK ANYWHERE FOR MORE DETAILS

Combine Clearance Gauge

The JD4956 gauge gives you a preset combine adjustment spacing for chaffer and sieve, sheave gap, concave leveling, header auger and other settings. See your John Deere dealer.

MANUAL PREVIEW

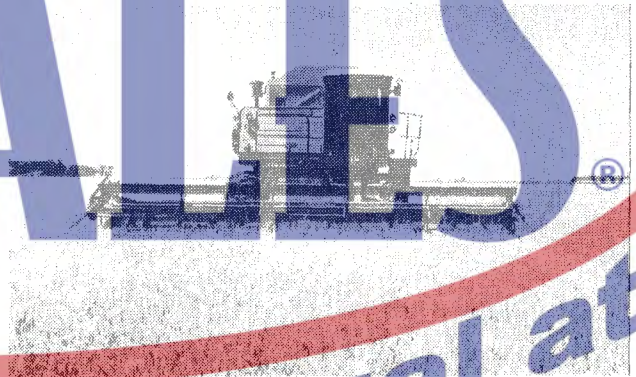
H38792

H38792

The way to a profitable harvest is to get all the crop from your field and to get a crop that is clean and damage free. A clean crop pays top market price.

Fine tuning combine adjustments assure maximum combine capacity and productivity, reduce losses and prevent grain damage. Remember these principles of combine adjustment apply for all crops being harvested.

Optimum harvesting results from correct adjustments and keeping a continuous material flow through the combine at all times. A bad adjustment in any area of the combine affects all the following functions. Correct combine adjustment is reached by knowing where to look and what to look for and how to read all the indicators.



H50243

THE FIVE BASIC FUNCTIONAL AREAS

1. Cutting and Feeding - Header and Feeder House

Cutting and feeding is the first functional area of the combine and is critical to a successful harvest. It is the header's job to smoothly cut and convey material to the feeder house in a uniform flow. The header is one of the most often overlooked areas of a combine; yet it affects everything that happens in all other functional areas.

The header must be level. To check it on any surface, raise the header enough and make sure it is parallel with the front axle. Before making adjustments to level the header, be sure both drive tires have equal air pressure.

For correct operation and adjustment of header, see header Operator's Manual.



H50116

CLICK ANYWHERE FOR MORE DETAILS

23. Unlatch the over center locks and lower feed plate door.

24. (Not Illustrated) Wire hydraulic cylinders to align to ram brackets for future attaching.

25. Remove pivot brackets from feeder house and back combine away. Place brackets back in feeder house to prevent loss.



H50256

Attaching Feeder House

Variable Speed Feeder House

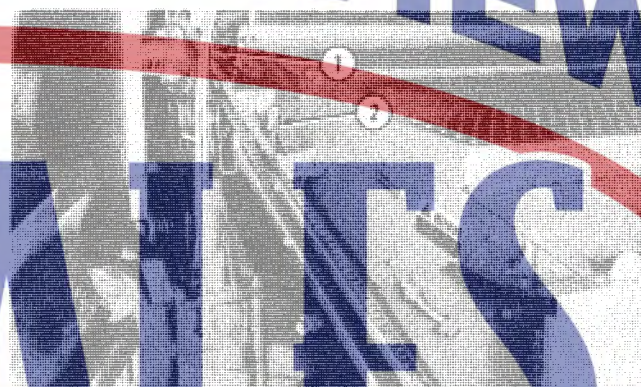
1. (Not Illustrated) Wire hydraulic cylinders to align with lower ram brackets, drive separator forward and attach pivot brackets to feeder house.

2. Raise feed plate door, position the support tube under the door and fasten the over center locks.

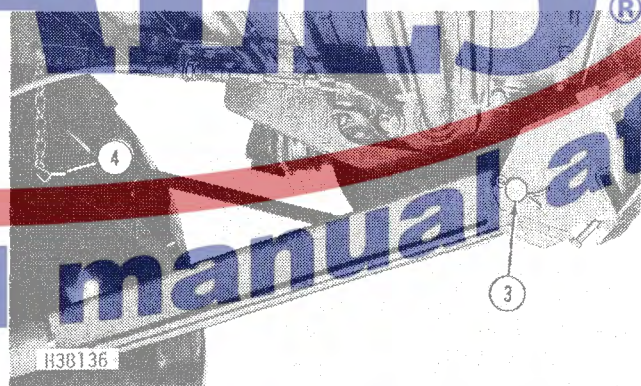
3. Attach hydraulic cylinder to ram hinge brackets.

4. Raise hydraulic cylinder safety stop and hook chain.

NOTE: Do not turn on accumulator without a header on feeder house.



H50257



H38136

H38136

Feeder House Raised For Illustration

i. Push cable up through housing then place washer on and hold with large chrome nut.

. Thread on lock nut then tighten handle until it bottoms. Lock handle with lock nut.



H38137

H38137

CLICK ANYWHERE FOR MORE DETAILS

MANUAL PREVIEW

JENS SALES

purchase full manual at

JENS SALES.COM

or Call 800-443-0625

CLICK ANYWHERE FOR MORE DETAILS

6620 AND SIDEHILL 6620 COMBINES—Continued

Separator

Type	Straw walkers
Width	44 in. (1 118 mm)
Total Separating Area (with Beater Grate)	7939 sq. in. (5.119 m ²)
Total Separating Area (with Adjustable Finger Bar)	7944 sq. in. (5.122 m ²)
Chaffer	
Width	42 in. (1 069 mm)
Length	67 in. (1 702 mm)
Sieve	
Width	42 in. (1 064 mm)
Length	53 in. (1 346 mm)
Total cleaning area of chaffer and sieve	5006 sq. in. (3236 cm ²)

Straw Walkers

Number of walkers	4
Number of steps	6
Length	150 (3 810 mm) in.
Total area of walkers	6593 sq. in. (4.25 m ²)

Grain Tank

Capacity	166 bu. (5.85 m ³)
Unloading Rate	1.9 bu. per sec. (.07 m ³)

Weights (Approx.) (Base Equipment—less header)

6620 Grain Combine	17,851 lbs. (8 096 kg)
6620 Corn Combine	18,250 lbs. (8 278 kg)
6620 Rice Combine	19,375 lbs. (8 648 kg)
SideHill 6620 Grain Combine	20,720 lbs. (9 418 kg)
SideHill 6620 Corn Combine	20,827 lbs. (9 447 kg)

Capacities

Fuel Tank	82 U.S. gals. (311 L)
Cooling System	33-1/2 U.S. qts. (32.4 L)
Includes 1-1/2 qts. (1.4 L) for heater	
Engine Crankcase (including filter)	21 U.S. qts. (20 L)
Transmission	11 U.S. qts. (10 L)
Final Drives	
6620	10 to 82 Ratio- 10 U.S. pts. (4.7 L)
	10 to 95 Ratio- 11 U.S. pts. (5.2 L)
SideHill 6620	12 U.S. pts. (5.6 L)
Variable Speed Feeder House or Long Length Fixed Speed Feeder House Reverser Drive Gear Case (6620 only)	2 U.S. pts. (0.95 L)
Hydraulic System (Including Lines and Components)	
6620	24 U.S. qts. (22 L)
SideHill 6620	31 U.S. qts. (28 L)
Hydrostatic Drive System (Including Lines and Components)	30 U.S. qts. (29 L)
4-Wheel Drive	5 additional gal. (18.9 L) to the hydrostatic drive system
Dual-Range Cylinder Drive Gear Case	2 U.S. qts. (1.9 L)

JENSALES.COM

or Call 800-443-0625

CLICK ANYWHERE FOR MORE DETAILS

Index

A	Page
Accumulator	65-03—65-10
Adjustable axle	105-28
Adjustable axle settings chart	105-30,105-31
Adjusting, crop	55-14—55-17
Adjusting engine speed	80-09
Adjusting reverser control cable	65-22,65-39
Adjusting spike tooth clearance	70-26
Air conditioner	110-01
Air conditioning controls	10-08
Air filter, engine	80-13—80-16
Air recirculator filter	110-01
As required maintenance	50-15
Alternator	85-06
Assembly of wheel spacers	105-14,105-15
Attaching feeder house	65-28,65-44
Augers, shoe	70-52
B	
Batteries	85-02—85-06
Beater	70-31
Belt pickup speed control knob	60-02
Bleeding brake hydraulic system	105-23,105-24
Bleeding clutch hydraulic system	105-22
Bleeding fuel filters	80-07,80-08
Bleeding fuel system	80-07
Bolt torque values	130-09
Brakes	105-23
Break-in, engine	15-01
Bulbs, light	40-04—40-07
C	
Cab filters	110-01,110-02
Cab door lock	10-12
Capacities	130-02—130-04
Chaffer and sieve	70-55
Rubber bushings	70-59
Chaffer setting	55-14—55-17
Chaffer Inserts	70-58
Chain, feeder conveyor	65-11,65-32
Checking refrigerant level	110-05
Chopper, straw	70-45
Circuit breakers	85-01
Clean grain elevator	70-66
Cleaning cab filters	110-02
Cleaning condenser	110-04
Cleaning fan	70-54
Cleaning evaporator	110-03
Cleaning shoe	70-52
Clutch	105-21
Clutch, electromagnetic	85-08
Cold weather operation	25-03
Cold weather starting, hydrostatic drive	105-01
Compressor drive belt	110-04
Concave, leveling	70-21,70-26
Concave opening control wheel	70-01

	Page
Condenser, air conditioning	110-04
Contents	05-01
Control box, leveling sensing	100-06
Control valve, sidehill leveling	110-04
Controls	10-08
Controls, grain tank and unloading auger	75-02
Controls, sidehill leveling	100-03
Coolant temperature gauge	10-05
Cooling system	80-10
Corn kernel losses	55-21
Covers, grain tank unloading augers	75-10
Cover strips, concave	70-21
Crawler tracks	105-19
Crop adjustments (settings)	55-14—55-17
Cylinder breaker bar	70-25,70-29
Cylinder drive	70-08—70-14,70-17
Cylinder, power unplugging	70-24,70-29
Cylinder rasp bars	70-20
Cylinders, sidehill leveling	100-05
Cylinder speed control lever	70-02
Cylinder speed tachometer	10-03
D	
Deflector, loading auger	75-10
DIAL-A-MATIC	60-03
Diesel fuel specifications	45-01
Digital display tachometer speed monitoring system	10-03,90-01
Dimensions	130-05—130-07
Draining cooling system	80-10
Drive wheel brake adjustment	105-23—105-25
Driving the combine	30-01
Drives, feeder conveyor	65-14,65-34
Drives, straw walker	70-42
Drop rate adjustment	95-04
Dual wheels	105-13
E	
Eight hundred hour lubrication	50-14
Electric coolant heater	25-04
Electric clutch switch	60-01
Electrical system	85-01
Electromagnetic clutch	85-05
Elevator, clean grain	70-66
Elevator, tailings	70-61
Engine air intake system	80-13
Engine break-in	15-01
Engine compartment	80-01,80-02
Engine closure	80-01
Engine fuel filters	80-06
Engine hour meter	10-03
Engine oil pressure gauge	10-04
Engine oils	45-02

purchase full manual at
JENSALLS.COM
 or Call 800-443-0625

CLICK ANYWHERE FOR MORE DETAILS

	Page
Engine service	80-01
Engine service walkway	80-02
Engine speed, adjusting	80-09
Ether starting aid	25-05
Evaporator, air conditioning	110-03

F

Fan speed control wheel	70-02
Feeder conveyor	65-11,65-32
Feeder conveyor drives	65-14,65-34
Feeder conveyor speeds	65-15,65-34
Feeder house	65-01—65-47
Feeder house and header drive belt	70-08
Feeder house controls	65-01
Feeder house drum height adjustment	65-14,65-34
Feeder house reverser handle	65-02
Feeder house variable speed control lever	65-01
Fender usage chart	105-14
Fifty-hour lubrication	50-04—50-07
Filler plates	70-20
Filling cooling system	80-10
Filling fuel tank	45-01
Finger bar	70-37
Fire extinguisher	05-04,10-15
Fixed speed feeder house	65-32
Float, feeder conveyor	65-13,65-33
Four hundred hour lubrication	50-10—50-13
4-wheel drive	105-11
Front wheels	105-12
Fuel filters, engine	80-06
Fuel gauge	10-04
Fuels and lubricants	45-01—45-06
Fuel pump	80-04
Fuel system	80-03
Fuel tank	80-03
Fuel tank sediment bowl	80-04
Fuel transfer pump	80-05
Fundamentals of combine harvesting	55-01—55-25
Fuses	85-01,85-02

G

Gearshift adjustments	105-20
Grain tank and unloading auger	75-01—75-10
Grain tank drain holes	75-09
Ground speeds	55-23—55-26

H

Harness routing	40-03
HARVESTRAK combine monitor	10-07,90-06,90-11
Hauling combine on a trailer	35-01
Header controls	60-02
Header height control lever	60-02
Header leveling	65-23,65-25,65-40
Header safety stop	60-04
Heater	10-08,110-01
High flotation tires	105-14
Hour meter	50-01
Hot weather operation	25-05
Hydraulic cylinder safety stop	60-04

Hydraulic reel drive pump belt	70-07
Hydraulic system	95-01
Hydrostatic charge pump drive	105-05
Hydrostatic drive	105-01
Hydrostatic drive oil cooler	105-08
Hydrostatic drive relief valves	105-07,105-08

I

Ignition switch	25-03
Index	135-01
Instruments	10-03
Instrument and controls identification	10-01

L

Ladders	10-15
Leveling header	65-23,65-25,65-40
Leveling rasp-bar concave	70-21
Leveling sensing control box	100-06
Leveling spike tooth concave	70-26
Lighting and signals	40-01—40-07
Light bulbs	40-04—40-07
Light switch	40-02
Lights	40-04
Loss, grain	55-19—55-21
Louvered air outlets	10-08
Low shaft speed monitor	10-07,90-04
Lubricants	45-02
Lubrication and maintenance	50-01

M

Main hydraulic pump belt	95-03
Major separator drives	70-03
Monitors	90-01
Digital tachometer	90-01
Low shaft speed	90-04,90-05
HARVESTRAK	90-06—90-11
Muffler, engine exhaust	80-09

N

Neutral starting switch	105-20
-------------------------------	--------

O

Oil cooler, hydrostatic drive	105-08
Operating speeds	55-18
Operating the engine	25-01
Operator's cab controls	10-02
Operator's seat	10-12
Operator's station	10-01

P

Parking brake adjustments	105-24
Positioning rear of spike tooth concave	70-28
POST-TORQ drive	105-09
Power train	105-01
Power unplugging, cylinder	70-24,70-29
Preparing combine for storage	120-01
Pressurizer fan	10-08
Pressure override control-hydrostatic drive	105-07
Prestarting checks	20-01
Product identification number	130-08
Proportioning rasp bar concave to cylinder	70-21

R

Radiator cap	80-11
--------------------	-------

	Page		Page
Radio	10-09	Steering column	10-16
Rasp bar cylinder and concave	70-20	Steering mechanism power rear wheel drive	105-29
Rear axles	105-26	Steering mechanism regular drive	105-26
Rear wheel torque	105-16	Stone trap cover	70-24
Recommended wheel spacers and fender chart	105-14	Stone traps	70-23,70-29
Reel drive speed adjusting knob	60-02	Stopping the engine	25-03
Reel lift control lever	60-03	Storage	120-01
Refrigerant, checking level	110-05	Straw chopper	70-45
Regulator, voltage	85-05	Straw spreader	70-44
Relays	85-01	Straw walkers	70-39
Relief valves, hydrostatic drive	105-07,105-08	Straw walker extension pans	70-42
Removing combine from storage	120-05	Straw walkers drives	70-39,70-42
Removing feeder house	65-25,65-40	Straw walker sensing unit	70-43
Reverser handle, feeder house	65-02	Suggested settings, crop	55-14—55-17
Risers, straw walker	70-41		
Rotary knife, adjusting	80-12		
Rotary screen	80-12	Tailings elevator	70-61
Row crop head	60-01	Ten hour lubrication	50-02,50-03
		Thermostats	80-11
S		Throttle	10-16
Safety	05-01	Tilt limit switches, SideHill leveling	100-05
Secondary countershaft	70-15—70-17	Tires	105-17
Seed loss charts	55-20—55-22	High flotation	105-14
Separator	70-01	Inflation	105-18
Separator control lever	70-01,70-04	Liquid balast	105-16
Separator controls	70-01	Toe-in	105-26,105-27
Separator curtains	70-41	Towing combine	35-01
Separator drive belt	70-03	Tracks, crawler	105-19
Separator drive belts and traps	70-06	Transmission	105-20
Serial number	130-08	Transporting	35-01
Service intervals	50-01	Trouble shooting	115-01
Setting, crop	55-14—55-17	Turn signals	40-02
Shear bolts		Two hundred hour lubrication	50-08,50-09
Cylinder	70-17		
Unloading auger	75-08	U	
Shoe, cleaning	70-52	Unloading auger clean out doors	75-08
Shoe grain supply augers	70-52	Unloading auger controls	75-02
SideHill electrical system	100-02	Unloading auger drive	75-01
SideHill fuse	100-07	Unloading drive system	75-01
SideHill leveling controls	100-03		
SideHill leveling control valve	100-04	V	
SideHill leveling cylinders	100-05	Variable speed control lever, feeder house	65-01
SideHill leveling system	100-01	Variable speed feeder house	65-11
SideHill leveling tilt limit switches	100-05	Voltage regulator	85-06
Sieve and chaffer	70-55	Voltmeter	10-04,85-06
Sieve setting	55-14—55-17		
Soybean losses	55-20	W	
Specifications	130-01	Warning lights	10-05,40-02
Speeds, feeder conveyor	65-15,65-34	Wheel dual	105-13
Speeds, operating	55-18	Wheel spacers	105-13,105-15
Spike tooth cylinder and concave	70-26	Wheel spacers and fender usage chart	105-14
Spike tooth replacement	70-27	Wheel torque:	
Spotlight	40-02	Front (Drive)	105-12
Spreader, straw	70-44	Rear (Steering)	105-16
Starter	85-07	Windshield wiper	10-11
Starting the engine	25-01		