



Hesston

Operator's Manual

6455

Windrower Tractor

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or Call **800-443-0625**

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HES-O-6455 WNR

Operator's Manual

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CHECKLISTS

PRE-DELIVERY CHECKLIST

After the windrower has been completely assembled and lubricated, inspect it thoroughly to be certain it is operating properly before delivering it to the customer. The following checklist is a reminder of points to inspect. Check off each item as it is found satisfactory or after proper adjustment is made.

- _____ Check that machine is completely assembled according to assembly instructions.
- _____ Inspect and, if necessary, lubricate all lubrication points; make sure all fittings are taking grease and check all lubrication seals for leakage.
- _____ During each of the following checklist items, check all bolts, nuts and bearing lock collars to be sure they are tight.
- _____ Check all wheel nuts to be sure they are tight. Check wheel bearings for proper rolling torque.
- _____ Inflate tires to proper pressure.
- _____ Check all operator's controls for proper operation and tension adjustment.

_____ Check out electrical system for tight connections and operation.

_____ Check all items listed under Servicing.

_____ Radiator

_____ Fuel tank for fuel

_____ Fuel strainer and sediment bowl

_____ Engine crankcase oil level

_____ Hydraulic system reservoir fluid level

_____ Air cleaners clean and operational

_____ Governor oil level

_____ Final drive oil level

_____ Engine manual for items not listed here

_____ Adjust flotation springs as specified to obtain correct header flotation.

_____ Check that breather vent in header lift valve is open.

CLICK ANYWHERE FOR MORE DETAILS

REPLACEMENT PARTS

Genuine HESSTON replacement parts only should be used to repair this machine, its engine and hydraulic components. HESSTON replacement parts are available from the local HESSTON dealer. To obtain prompt, efficient service, always remember to give the dealer the following information:

1. Correct part description or part number
2. Model number of your machine
3. Serial number of your machine.

SPECIFICATIONS

SELF PROPELLED WINDROWER TRACTOR

Model	6455
Overall length with auger header	216"
Open Platform	Cab w/Air
Weight - Tractor 3700 lbs.	4250 lbs.
Weight - w/header and Hay Conditioner	
Auger 12' 6530 lbs.	7080 lbs.
Auger 14' 6730 lbs.	7280 lbs.
Auger 16' 6905 lbs.	7455 lbs.
Height, top of steering wheel	92"
Height, top of cab	118"
Engine	gasoline
Make	Chrysler
Model	H225
Displacement, cubic inches	225
Horsepower @ 2500 rpm	70
rpm - tandem pump sheave	2800
Timing @ 550 rpm	5° BTDC
rpm - tandem pump sheave	616
Ignition system type	electronic
Cooling system - U.S. quarts	20
- Liters	18.9
Fuel - type	gasoline
- grade	regular
Fuel Capacity - U.S. gallons	34
- Liters	128.5
Engine oil - grade	20-20W-SE
Capacity - U.S. qts.	6
- liters	5.68

Electrical system 12 volt
Grounding negative
Battery 12 volt 300 amp min. cranking
cap @ 0°F.

Alternator
Make Motorola
Model 8MR2026P
Amps output 72

Regulator
Make Motorola
Model 8AG2009A
Spark plugs Champion RBL-11-Y
Mopar 556PR

Wheel base 112"
Tread width 96"

Tires - drive 13.5L x 16.1
Pressure 20-24 psi
Wheel nuts 9/16-18
torque 120 ft.-lbs.

Tires - tail wheel 5.90 x 15 Impl.
Pressure 16 psi
Wheel bolts 1/2-20 x 13/16"
torque 80 ft.-lbs.

Clearance under walking beam 31.5"
Clearance under frame 34.5"

Final drive riveted roller chain
Lower chain No. 80
Upper chain No. 50

Transmission Vickers 19 tandem pump
Drive Vickers fixed displacement hydraulic
motors

Speed range 0 to 10.5 mph

Hydraulic system
Reservoir cap. - U.S. gallons 8.5
- Liters 32.2

System cap. - U.S. gallons 12
- Liters 45.4

System fluid 10W40 SE engine oil
Hydraulic header lift relief pressure 1750 psi

Air Conditioning System
Fluid Freon F-12
Capacity 3.75 lbs.
Compressor Sankyo SD-508
displacement 8.4 cu. in.

(Specifications and design are subject to change without notice and without liability therefore.)

DESCRIPTION

DESCRIPTION

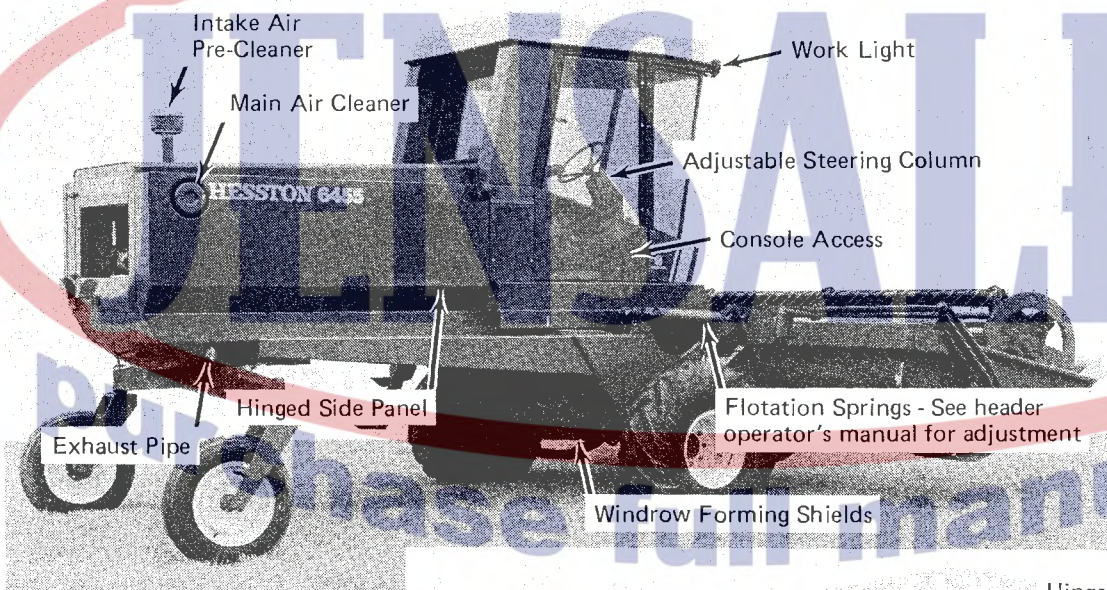
CLICK ANYWHERE FOR MORE DETAILS

This section contains descriptive information concerning the machine and its components. This information supplements the instructions and information found in the Operation and Maintenance sections and is presented to give a better understanding of the machine and its successful operation.

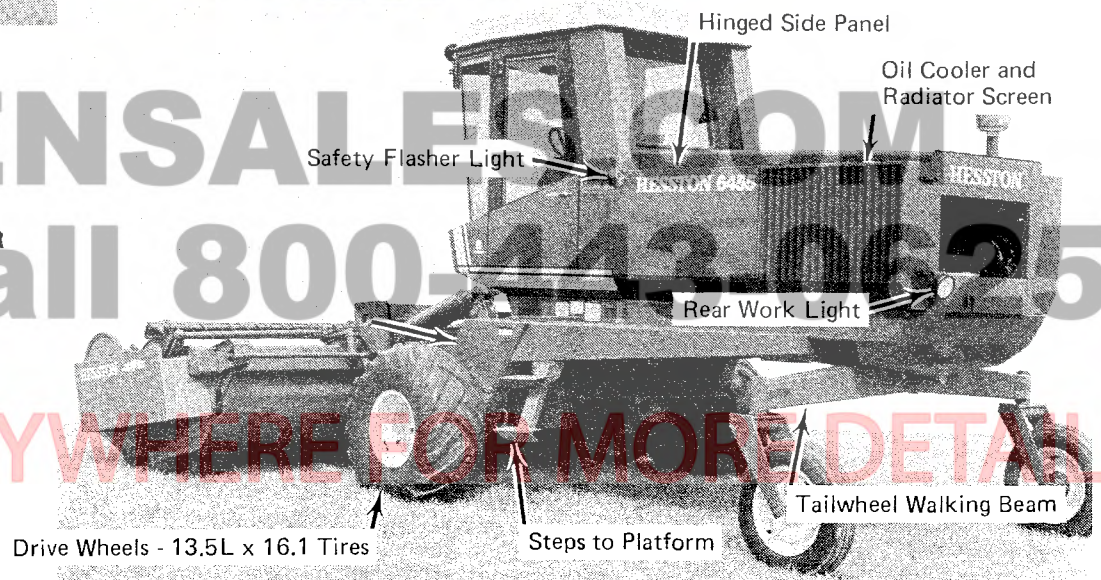
THE 6455 WINDROWER

The HESSTON 6455 Windrower is available with a

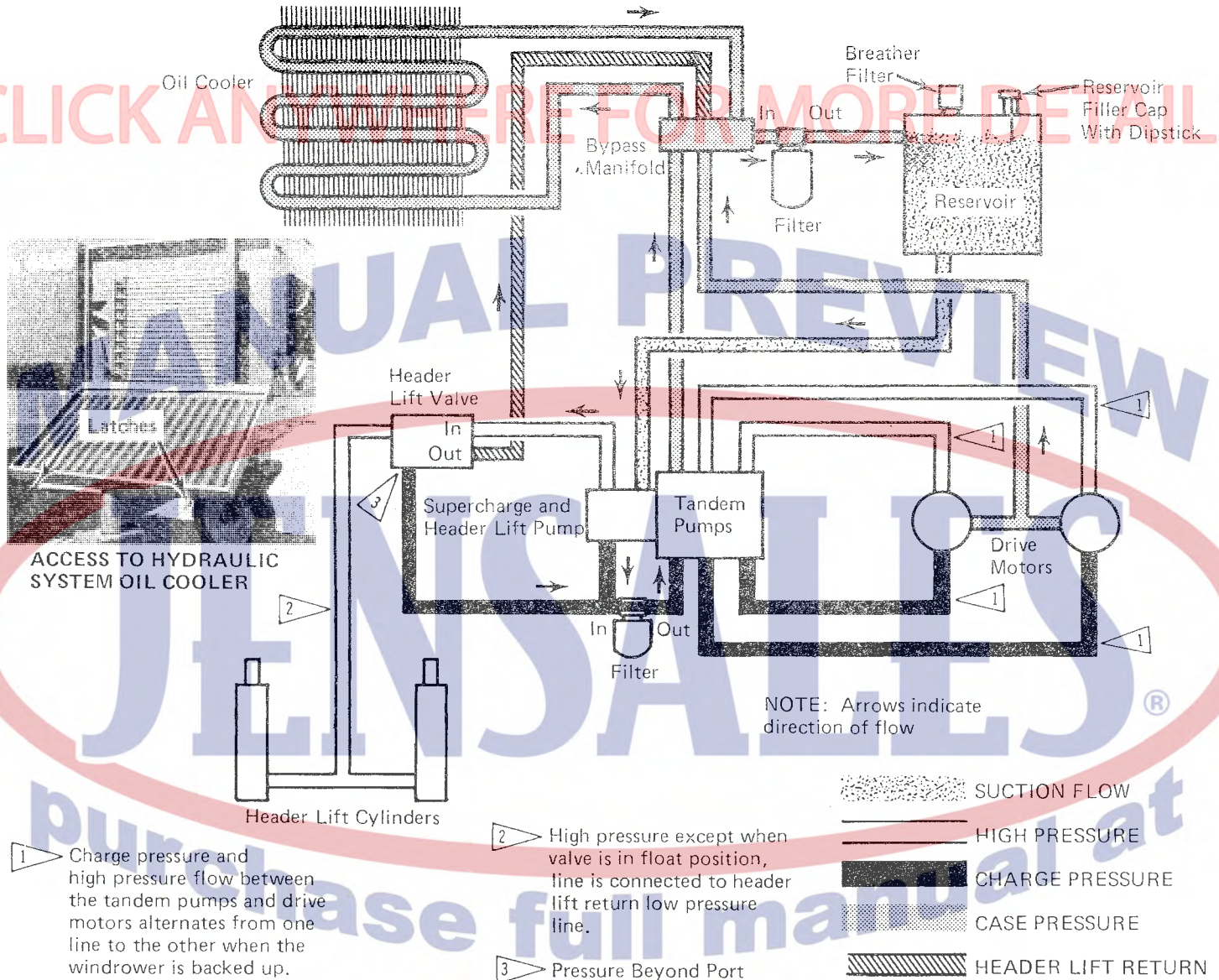
10, 12, or 14-foot auger header as well as draper headers of 12, 15, 18 or 21-foot lengths. The versatility of the 6455 Windrower allows the operator to work alfalfa or native hay, grass seed, peas, sorghum-sudans, and grain crops. The header is easily installed onto, and removed from, the tractor by quick-detach lift arms. This Operator's Manual covers only the 6455 Tractor. For operator's information on the headers, refer to the operator's manual for the particular header.



6455 WINDROWER TRACTOR



DESCRIPTION



HYDRAULIC SYSTEM SCHEMATIC

and return to the reservoir. The header will lower until resting on the skid shoes (or gauge wheels) and will operate in a **FLOAT** mode until the pedal is pressed to raise the header.

When the pedal is pressed to raise the header, the lockout plunger (if in detent) will be forced out of detent, the outflow part and pressure beyond port of the valve will be restricted and the port to the header lift cylinder opened, thereby building up pressure and directing it to the header lift cylinder to raise the header.

VALVE SAFETY FEATURE

The header lift valve is designed to hold the header at any set height when the engine is not running, even tho the control pedal is operated. This is accomplished by a poppet valve in the end of the lockout plunger. To unseat the poppet valve and lower the header, the engine must be running to provide high pressure hydraulic flow with the control pedal pressed to the **DOWN** position.

ELECTRICAL SYSTEM

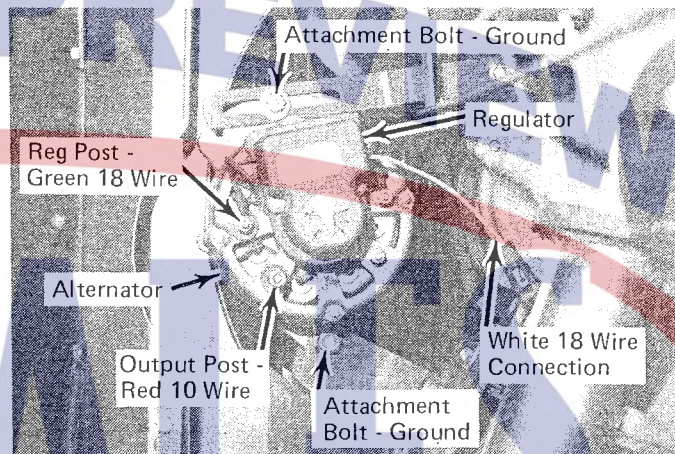
The electrical system of the 6455 Windrower is a 12-volt, negative grounded circuit. All electrical instruments, the alternator, and the voltage regulator are designed for a negative grounded circuit and reversing the polarity of the circuit will damage these components. The electrical system begins and ends at the battery, so any break or poor connection will prevent or interfere with the flow of electrical energy for proper operation of each of the electrical components. The electrical system uses the tractor frame for the ground conductor. A 4 gauge ground cable connects the negative post of the battery to the tractor frame. Another 4 gauge ground cable connects between the rubber mounted operator's platform and the tractor's frame (see following illustration). The operator's platform ground cable must be securely connected to complete the circuit for the hour meter, the fuel gauge and the headlights.

On tractor's with cab, the blower, dome light and air conditioning controls require this ground. Since the ground connections are as important as the positive battery connection, all ground connections must be clean and secure. Refer to Electrical System Wiring Diagram for additional information about the circuits. Refer to Operation section for information concerning the instrument panel lights, fuses and electrical gauges and to the Maintenance section for instrument panel maintenance.



ALTERNATOR AND REGULATOR

The alternator is attached to the engine with two bolts which must make metal-to-metal contact and be secure, as these are the ground for the alternator as well as the belt tensioning device. A rear view of the alternator and attached voltage regulator shows the posts and connector for connecting the wiring to these units.



AIR CONDITIONING SYSTEM

The air conditioning system's main components are: a compressor with an electric clutch, high pressure switch, condenser, a receiver-drier with sight glass, an expansion valve with temperature sensing bulb, evaporator, a three-speed blower, and a thermostatic control switch with a temperature sensing bulb. Refrigerant-12 is used in the system as a cooling agent. Refer to the Air Conditioning System Schematic for location of components in the system, flow of refrigerant and electrical control circuit. See also Electrical System Wiring Diagram. The refrigerant is compressed by the compressor and becomes a liquid as it passes through the condenser where it loses most of its heat. The refrigerant flows from the condenser as a liquid, through the receiver-drier where any moisture that might be present is removed and on to the expansion valve. The expansion valve

CLICK ANYWHERE FOR MORE DETAILS