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MANUAL PREVIEW

Hahn

Operator's Manual

Hi-Boy Sprayer

H-180, H-180EW,

H-180EO, H-300,

H-300FS, H-306 & H-306FS

1963

or Call 800-443-0625



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Operator's Manual

HAH-O-H180+

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HI-BOY SPECIFICATIONS

	H-300	H-300FS	H-306	H-306FS	H-180	H-180EW	H-180EO
Front Tire Size	11x24	16.9x24	11x24	16.9x24	10x24	10x24	10x24
Rear Tire Size	750x20	900x24	750x20	900x24	750x20	750x20	750x20
Wheel	Timkin	Timkin	Timkin	Timkin	Timkin	Timkin	Timkin
Bearings	Roller	Roller	Roller	Roller	Roller	Roller	Roller
Boom Clearance, Min. & Max.	18-144	18-144	18-144	18-144	18-144	18-144	18-144
Wheel Tread, Min. & Max.	72-84	72-84	74-148	74-148	72-84	72-84	72-84
Wheel Base	89"	89"	91"	91"	89"	89"	89"
Engine Make	Wisc.	Wisc.	Wisc.	Wisc.	Wisc.	Wisc.	OMC
Engine Model	VH-4-D	VH-4-D	VH-4-D	VH-4-D	THD	THD	218
Engine Bore & Stroke	3 1/4 x 3 1/4	3 1/4 x 3 1/4	3 1/4 x 3 1/4	3 1/4 x 3 1/4	3 1/4 x 3 1/4	3 1/4 x 3 1/4	3 1/2 x 2 1/4
Engine Cubic Inches	107.7	107.7	107.7	107.7	53.9	53.9	43.3
Engine Horse Power	30	30	30	30	18	18	18
Clutch Type	Foot	Foot	Foot	Foot	Foot	Foot	Foot
	Idler	Idler	Idler	Idler	Idler	Idler	Idler
Transmission Type	Warner	Warner	Warner	Warner	Warner	Warner	Warner
Speeds Forward	4	4	4	4	4	4	4
Speeds Forward, Miles per Hour	2 1/2-5	2 1/2-5	2 1/2-5	2 1/2-5	2 1/4-4 1/2	2 1/4-4 1/2	2 3/4-5 1/2
Reverse Speeds, MPH	10-20	10-20	10-20	10-20	8-16	8-16	9 1/2-19
Chain	2 1/2	2 1/2	2 1/2	2 1/2	2 1/4	2 1/2	2 3/4
Steering Gear	RC-80	RC-80	RC-80	RC-80	RC-80	RC-80	RC-80
Type Brakes	Ross	Ross	Ross	Ross	Ross	Ross	Ross
Tank Capacity	Band	Band	Band	Band	Band	Band	Band
	200	200	200	200	200	200	200

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TROUBLE SHOOTING – PUMP & SPRAY BOOM

WHAT TO DO WHEN PUMP WILL NOT PICK UP PRIME OR LOSES VOLUME.

1. If the pump does not pick up prime or does not give proper pressure, take the following steps.
 - a. Remove suction strainer from tank and clean thoroughly then bleed air from system by loosening pressure relief spring.
(IF PUMP STILL DOESN'T OPERATE)
 - b. Check all hoses for leaks and check suction hose to see if excessive wear has caused it to collapse – if so, replace hose.
(IF PUMP STILL DOESN'T OPERATE)
 - c. Take out the five bolts from the end plate, remove end plate and take out the necessary gaskets to adjust for wear. Do not remove more gaskets than necessary. Caution: Pump must be able to be turned by hand.
 - d. After checking the above points consult your dealer or distributor who will be glad to repair your pump.

WHAT TO DO WHEN ONE SECTION OF BOOM IS NOT SPRAYING.

1. Check line strainer screen for dirt or rust according to what boom section is not spraying. Replace screen after thoroughly cleaning.
2. If boom section still does not spray check your Tee-Valve for correct setting.
3. Also check hose or boom pipe for obstruction.

WHAT TO DO IF THE COMPLETE BOOM DOES NOT SPRAY.

1. Remove and clean all three line strainers which are attached to the back side of Tee-Valve.
2. Remove screen from suction strainer in tank. The suction strainer can be removed from top of tank by lifting suction strainer pipe through bushing. Then disassemble and clean strainer assembly thoroughly. CAUTION: Be sure to install suction strainer properly. It should always be in sump of tank when sprayer is in operation.
3. If complete boom still does not spray, drain tank by removing bottom plug. Clean tank thoroughly.

WHAT TO DO FOR NOZZLE CLOGGING.

1. Check source of water you are using – to be sure it is clean.
2. Remove all nozzles and clean nozzle screens.
3. Clean line and suction strainers.
4. Flush tank.
5. If a gummy substance due to the chemicals and hard water you are using is clogging the nozzles, put several cups of tide or some detergent in your tank when filling. The detergent soap will soften your water and clean the nozzles.

WHAT TO DO IF THE OUTER BOOM ARMS WILL NOT STAY RIGID IN ROUGH FIELD OPERATION.

1. Tighten boom arm hinge bolt.
2. Tighten hinge spring bolt.

LUBRICATION CHART

ELEVATOR CRANK THREADS
(Gun Grease)

ELEVATOR BEARINGS
(Gun Grease)

THROTTLE LEVER
(Oil SAE 30)

STEERING GEAR
(Std. Oil Rycon #2)

WHEEL BEARINGS
(Wheel Brg. Grease)

WHEEL BEARINGS
(Wheel Brg. Grease)

BRAKE LINKAGE
(Gun Grease)

CLUTCH LINKAGE
(Gun Grease)

CHAIN IDLER
(Gun Grease)

TRANSMISSION
(SAE 90 Trans. Grease)

SPEEDOMETER GEAR BOX
(Gun Grease)

FRONT TUBE BEARINGS
(Gun Grease)

AIR CLEANER
(See Mfg. Spec's.)

CLUTCH IDLER ROLLER
(Gun Grease)

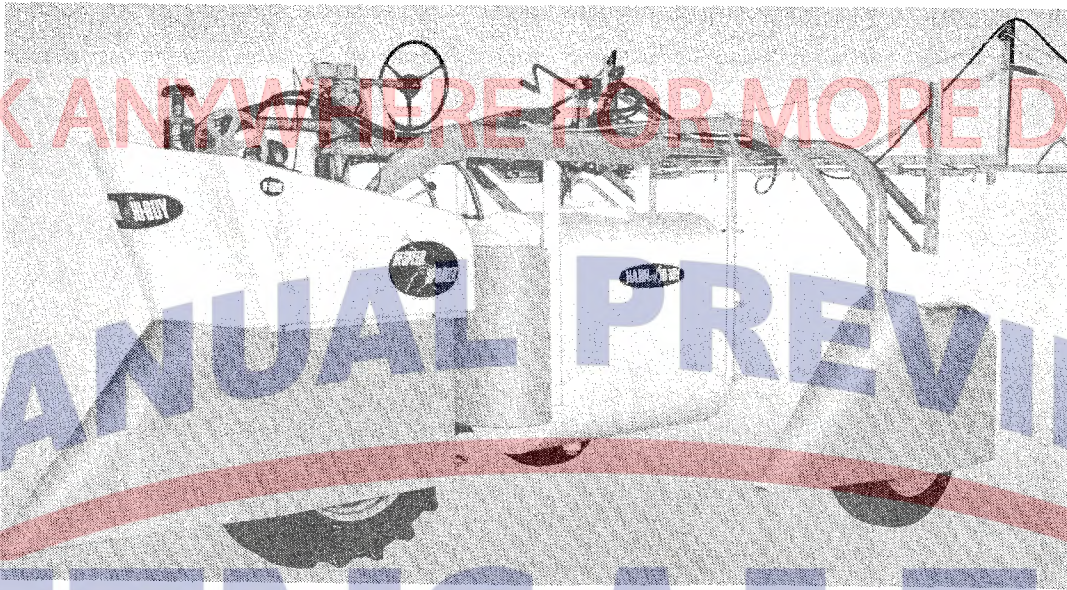
PILLOW BLOCKS
(Gun Grease)

PILLOW BLOCKS
(Gun Grease)

ENGINE - Oil should be changed daily in the air cleaner. Follow manufacturer's specifications and maintenance instructions on engine lubrications.

HI-BOY - Grease daily the items shown above with the exception of the rear and front wheel bearings. Under extreme muddy conditions, these bearings should be checked regularly and lubricated as needed.

1963 HI-BOY MODELS



MODEL H-300 SERIES

Model H-300, as shown above, with 30 HP Wisconsin Engine (fenders, optional, has 12 volt electrical system and battery; heavy duty forged drive axle; new Tee-Valve pressure head; positive, easy-action foot clutch and brake; new big 20 amp. generator; built-in hydraulic pump drive, and many other exclusive HAHN features.



MODEL H-180 SERIES

New Super H-180 models, all have many of the quality features found on the H-300 Series, except for 18 HP Wisconsin or Outboard Marine Corp. engines. Heavy-duty cast-iron yoke rear wheels, which provide more mud clearance and less crop damage, are standard on the H-180 Series, as well as the H-300 Series.