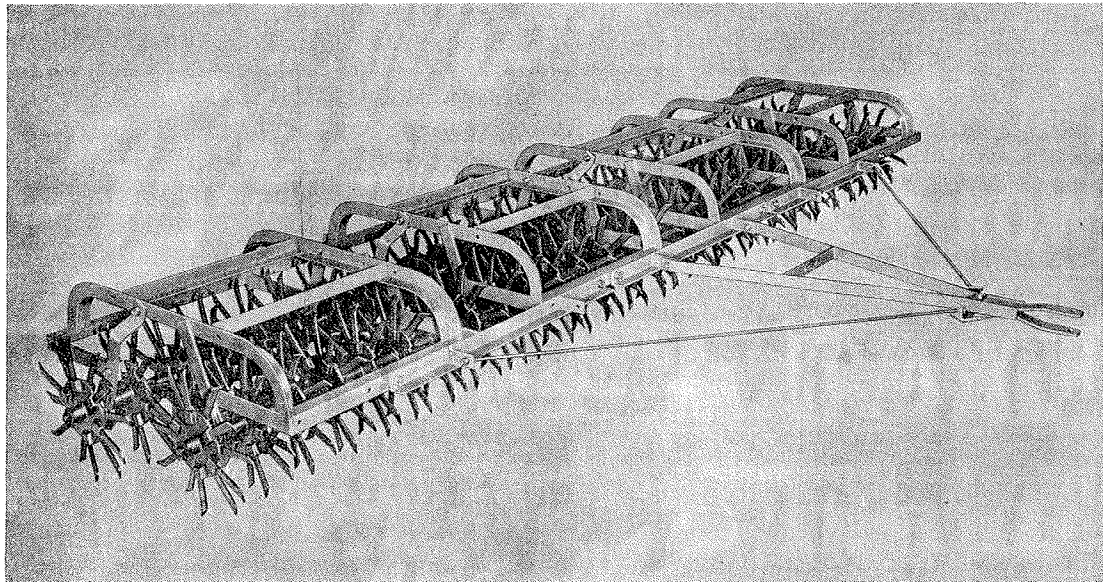


OPERATOR'S MANUAL

Brillion

2-3-4-6 & 8 ROW

DRAWBAR TYPE ROTARY HOE



BRILLION IRON WORKS, INC.
BRILLION, WISCONSIN

4C-448

Brillion

DRAWBAR TYPE ROTARY HOE

MODELS

H-2	H-3	H-4	H-6	H-8
HS-2	HS-3	HS-4	HS-6	HS-8

Your Brillion Work-All Rotary Hoe is built with the best of materials and workmanship available. These units have been designed so they may be attached to any standard drawbar type tractor.

You can avoid many future difficulties by correctly adjusting and lubricating the machine when necessary.

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LOCATION REFERENCE

"Right" and "Left", "Front" and "Rear" refer to the operators "Right" and "Left", "Front" and "Rear" when he faces the same direction as the machine is traveling.

S P E C I F I C A T I O N S

- Hoe Wheels. Gray iron wheels and hub with integrally cast alloy steel teeth.
- Axle Shafts Adjustable axle centers for regulation of hoe penetration. 1" dia. rail steel axles.
- Bearings. Chilled white iron bearings running in tellurium coated bearing carriers.
- Weight Frames Welded one piece angle iron construction. Individual weight box for each unit holds up to three standard concrete blocks, for additional weight.

H O E W E I G H T

Model	Section	Wheel Types	Working Width	Weight
H-2	2	Work-All	7'	604
H-3	3	" "	10'6"	915
H-4	4	" "	14'	1218
H-6	6	" "	21'	1837
H-8	8	" "	28'	2450
HS-2	2	Spoonbill	7'	632
HS-3	3	" "	10'6"	957
HS-4	4	" "	14'	1274
HS-6	6	" "	21'	1921
HS-8	8	" "	28'	2560

SETTING UP & OPERATING INSTRUCTIONS

Your Brillion Rotary Hoe comes to you partly assembled. All wheels and bearings are assembled on the axles, ready for assembly to the frames.

ASSEMBLY OF AXLES TO FRAME

Be sure the welded (rigid) side arms of the frame are toward the front of the hoe and that the adjustable (bolted) side arms are toward the rear of the unit. Begin by first removing the bolts from the bearing carriers found close to the ends of the shaft assemblies. Then place the frame on one of the axles and bolt the bearing carriers to the frame. Remember, the axle and wheels should be in a position so that when pulling the hoe forward, the teeth are digging and not rolling. The flat side of the tooth should point toward the front of the hoe. Now roll a second axle into position and attach it to the frame in the same manner. After all frames and axles have been assembled, roll the units into position for attaching the drawbar angles.

ATTACHING DRAWBAR ANGLES - DRAWBAR - TIE RODS

When attaching the drawbar angles, drawbar, and tie rods to the frames of the hoe, refer to pages 7 and 8 of this manual for specific mounting instructions. To attach the various extension rods, remove the elastic nuts from the threaded end of the rod. Then slide the rod through the ear on the drawbar angles, and bring it through to the forward end of the drawbar. Now slide one of the rod brackets over the threaded end of the rod and replace the elastic nut previously removed. Fasten the rod brackets to the holes provided in the rear of the drawbar tongue.

EXTENSION RODS

When attaching the extension rods to the various row types of hoes, it should be noted that extension rods are not used with the

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2 row hoes. On the 3 and 4 row hoes, two rods each are used, on the 6 row, 4 rods are required and for the 8 row, 6 rods are used. The rod brackets can be bolted to either the top or bottom surface of the drawbar tongue. After all of the rods are assembled, draw up on the elastic nuts at the bracket end, until all of the hoe units are brought into line. To check alignment, sight along the front drawbar angles, of the units. All hoe frames should be in line to assure even pull and float action of each individual frame.

LUBRICATION

After the unit is completely assembled, grease the bearings and sleeves through the zerk fittings found in the bearings. The bearings should be greased twice daily during the use season.

DEPTH OF PENETRATION

To change the depth of penetration of the teeth in the soil, adjust the rear axle forward. To do this, simply loosen the bottom bolts of the two rear arms, and remove the two top bolts from the arms and frame. Now swing the arms backward and replace the top bolt in each arm. Retighten all four bolts in each hoe unit.

Additional penetration can be obtained by adding weight to each of the sections. Each section has an individual weight box which will hold up to three standard concrete blocks.

WHEEL TYPES (See Page-9)

SPOONBILL WHEEL

The teeth in this type of wheel are in line and forged to a spoonbill shape intended for crust breaking, cultivating and mulching.

WORK-ALL WHEEL

The teeth in this wheel are pointed and staggered for better penetration in heavier soils as well as cultivation and areation and mulching of the soil.

