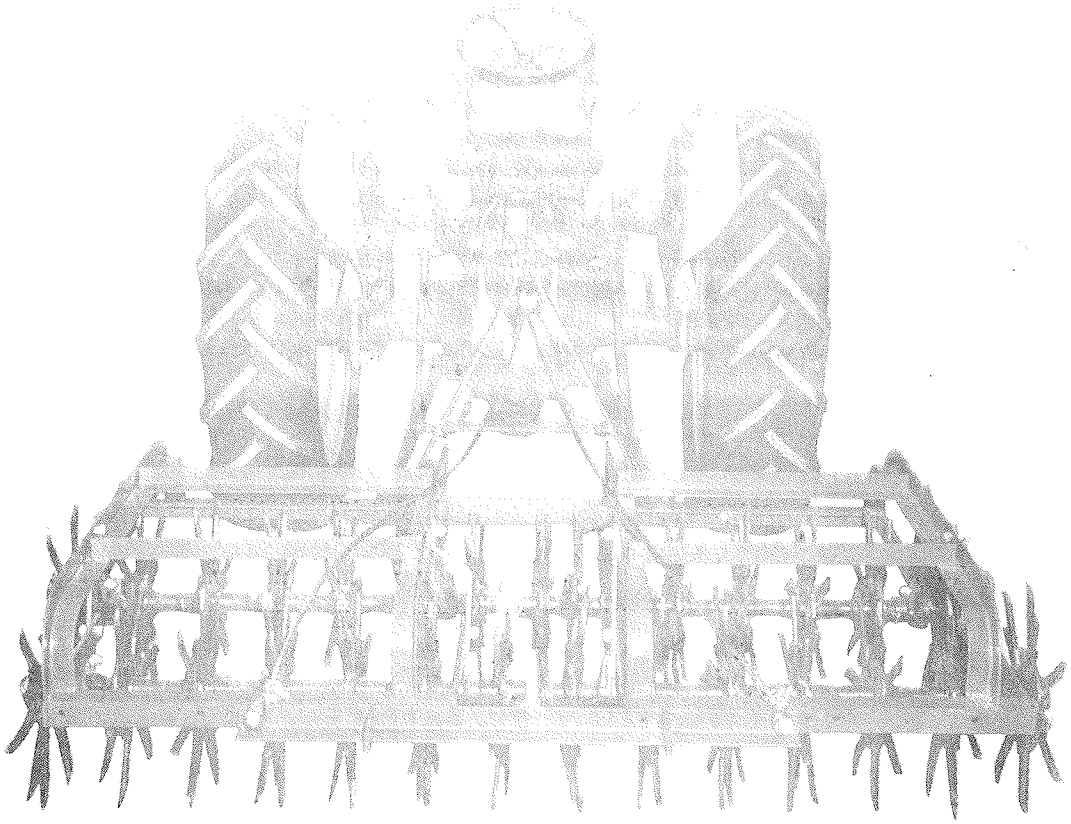
# OPERATOR'S MANUAL

Brillion

## 2 & 3 ROW
## PICK-UP ROTARY HOE



BRILLION IRON WORKS, INC.
BRILLION, WISCONSIN

Brillion

# LIFT TYPE ROTARY HOE

MODELS

HP-2 HPA-2 HPA-2S HP-2S

HP-3 HPA-3 HPA-3S HP-3S

4C-489

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 3-point hitch type tractors and also to the WD Allis Chalmers Snap Coupler type hitch.

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.

# SPECIFICATIONS

4C-489

| | |
|---|---|
| Hitch Types | To fit 3 point hitch and WD Allis Chalmers. |
| Working Width of Hoe Teeth | 2 Row 7' - 6"<br>3 Row ~~11' - 3"~~ 10' - 6" |
| Hoe Wheels | Gray iron wheel 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. |

| | | | |
|---|---|---|---|
| Weight. . . . . 2 Row . . . . .Model. | HP-2 | 3 Point Lift With Work-All Wheels | 608# |
| " | HPA-2 | Allis WD Lift With Work-All Wheels | 635# |
| " | HP-2S | 3 Point Lift With Spoonbill Wheels | 636# |
| " | HPA-2S | Allis WD Lift With Spoonbill Wheels | 653# |
| 3 Row . . . . .Model. | HP-3 | 3 Point Lift With Work-All Wheels | 1073# |
| " | HPA-3 | Allis WD Lift With Work-All Wheels | 1100# |
| " | HP-3S | 3 Point Lift With Spoonbill Wheels | 1115# |
| " | HPA-3S | Allis WD Lift With Spoonbill Wheels | 1142# |

# 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.

Begin assembly by attaching the axle assemblies to the frames. 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.

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To attach the axles to the frames, remove the bolts from the bearing carriers found close to the ends of the shaft assemblies. Now set 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. Then roll the second axle into position and attach it to the frame in the same manner as the first. The remaining axle and frame assemblies are then assembled in the same manner. After all frames and axles have been assembled, roll all of the units into position for attaching the front and rear lift angles.

## 3 ROW HOE—FINAL ASSEMBLY

When assembling the lift angles and frames, for a 3 row lift type unit, refer to pages 8 and 9 of this manual for specific mounting instructions. On page 8 both the "3 Point Lift" and "Allis Chalmers WD Lift" are shown, with attaching points "A" - "B" - "C" - "D" encircled for each. Proper assembly of the parts at these points is shown on page 9 as "Assembly at "A", "B", etc. Also note the illustration at the bottom of page 9 in regard to frame side arm spacing.

## 2 ROW HOE—FINAL ASSEMBLY

When assembling the 2 row lift type rotary hoes, refer to page 7

where both types of lifts are illustrated. Note that the illustrations for attaching points E & F are found at the top of the same page.

The cable portion of the lift type hitches is adjusted at the factory. If any further adjustment should become necessary, it is recommended to make this adjustment at the (top) end toward the front drawbar hitch.



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 pivot the arm backwards and insert 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-10)

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.