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MANUAL PREVIEW

Allis Chalmers
Operator's Manual
60 Series
B Cultivators

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SETTING UP DIRECTIONS

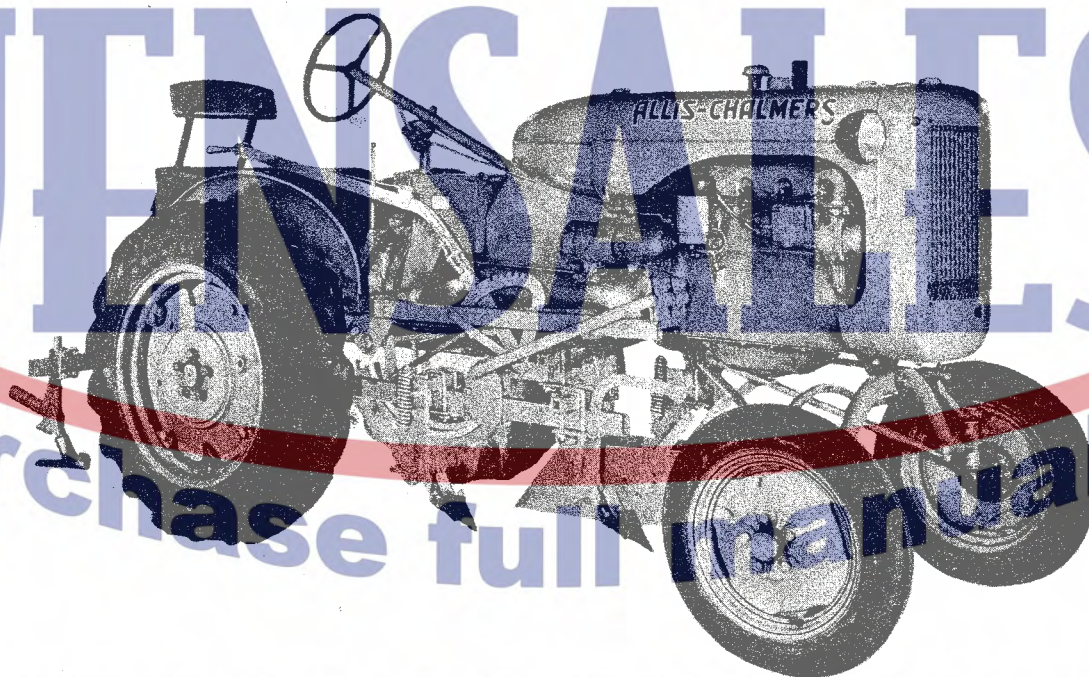
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REPAIR PARTS LIST

FOR

ALLIS-CHALMERS

60 SERIES "B" CULTIVATORS



ALLIS-CHALMERS MFG. CO.

TRACTOR DIVISION

MILWAUKEE 1, WISCONSIN

U. S. A.

FORM TPL-36 D

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SETTING UP DIRECTIONS

When referring to right or left face the direction the tractor travels.

Side Frame (Right)

Refer to Plate 2 for a general side view of cultivator when attached to tractor, then obtain 4 capscrews and washers wired to frame bundle. Place two capscrews with flat and plate washers on each side of clutch housing as shown at "A". Next, place a bolt through outer hole in each end of tractor cross tube as shown at "B". Select right side frame and slide it in position as illustrated at "A" and "B".

Side Frame (Left)

Remove rockshaft from left frame and enter end of shaft into bearing on right frame as illustrated at "C". Be sure that long arms on shaft are toward the rear and pointing downward. Attach left frame and make certain that it engages left end of shaft. Install lever and attach lever lift link to rock shaft. Attach spring pressure rods as shown at "D". End of rod should be toward center of tractor.

Lift Springs

Attach as follows for hand lifted cultivator only. Refer to Plate 2 and pass hooked end of spring over top of rock shaft and hook into holes in rock shaft arm. Attach spring anchor on other end of spring to cultivator side frame as shown at "E". Note: All cultivators use two springs -- one on each side except #65 which uses only one spring on left side. Install spring anchor as shown at "H" Plate 6 for #65.

Rear Arch

Refer to Plate 2 and attach rear arch as shown at "G". Use the set of attaching holes that will hold gang tubes parallel.

Shovel Shanks or Spring Teeth

Refer to the plate showing the series number of the cultivator being assembled. Attach equipment as shown. See upper left corner of plate for top view. Refer to plates 6 and 7 for shank arrangement on 2 or 4 row vegetable cultivators.

Shields

Attach to front of cultivator gangs as shown at "F" Plate 2. For #65 cultivators see Plate 6.

Power Lifted Cultivators

Refer to Plate 16. Linkage Bundle #381610 contains all of the necessary parts to convert either a hand lifted mower or cultivator to power lifted operation. Refer to lower half of plate 16 for parts used with cultivator. Remove lift springs (if attached). Attach lift shaft and arm "A" to rear ends of seat angle. Arm "A" must be on the right side. Remove lever lift rod from between lever and rock shaft and install linkage "C" and "D" as shown. Next, attach link "E" to arm "A" then hook bell crank "F" over cultivator rock shaft as illustrated. Bolt bell crank to arm on rock shaft. Install spring "H" on left side of cultivator as shown. Bolt spring arm "G" to arm on left end of rock shaft. The rivet welded to spring arm must be toward the front so rivet is against bottom side of rock shaft arm when spring is attached. The spring is installed in this manner on power lifted cultivators only. Link "B" shown in upper view is not used with cultivator.

ADJUSTMENTS

Shovels and Sweeps

Refer to Figures 1 and 2 for correct shovel or sweep setting. Adjust shovels so the point enters the ground at about 45 degree angle. See correct setting in Figure 1. Sweeps should be adjusted so the point is slightly lower than the heel. See correct setting in Figure 2. Adjustment is made by loosening the adjustment bolt in the heel of foot piece and tilting the foot piece to the desired position. Shovels must be attached before making adjustments. Be sure to attach shovels and sweeps low enough on the foot piece so end of foot piece does not drag on bottom of furrow.

Spring Trips (Flat Shank only)

Flat Shank Spring Trips are adjusted to trip easily at the factory, therefore, if they trip too frequently in normal soil conditions, this may be overcome by backing out the adjusting screw shown at (J) Plate 15. Back the set screw out only a few threads at a time to avoid making the tripping action too stiff. The trips should be adjusted only tight enough to overcome the soil resistance but not so tight that they cannot trip when striking roots, rocks, etc.



FIG. 1 SHOVEL SETTING



FIG. 2 - SWEEP SETTING

ADJUSTMENTS (Cont'd)

Bearings

The front dragbar bearings located at K and L Plate 2 should be kept adjusted snug enough to prevent undue looseness at these points but not tight enough to interfere with free movement of drag bars. Shims are provided under bearing caps for adjustment purposes.

Leveling Gang Bars

The cultivator gang bars should be kept level and parallel with each other at all times to assure even penetration. The bars can be leveled independently or together by sliding the bearing plates, (M Plate 2) forward or back on the gang bars.

Shields

Adjustments are provided in shields and shield hangers to permit adjusting to meet conditions. Shields should be adjusted to run practically level when cultivator is running at normal depth.

Lifting (Hand Lifted Cultivators)

Lift Springs are provided on all hand lifted cultivators to aid in lifting. These springs should be adjusted tight enough to suit the operator.

Lifting (Power Lifted Cultivators)

Power Lifted Cultivators are also equipped with a spring similar to hand lifted cultivators. However, the spring furnished with power lifted cultivators is used to aid in getting penetration. The manner of attaching the spring is quite different from hand lifted units. See power lifted cultivators in setting up instructions. Increase spring tension for more penetration.

Lubrication

Use regular lubricating oil on bearings and other moving mowing parts as needed.

UNHITCHING

Select a firm level spot allowing room at the front to permit driving tractor away after unhitching. Remove the tillage tools from front cross heads. Lower the cultivator with power lift or hand lever. Push lever to forward position and remove top half of lever. Loosen capscrews holding cultivator to tractor clutch housing, also bolts through tractor cross tube.

If the cultivator is hand lifted, slide the frame forward off of capscrews and bolts and let it drop to the ground, then drive tractor slowly forward being sure that it clears. If cultivator is power lifted refer to Plate 16 and unhook link "E" from lift shaft "A" then let tension off of spring "H" before letting cultivator drop to the ground.

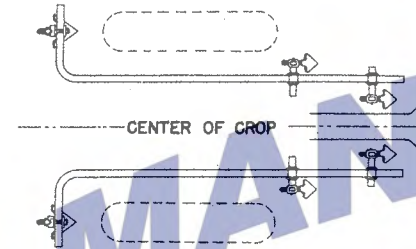
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GANG LAYOUT FOR NO. 61 CULTIVATOR

FOR DETAILS OF SPRING TRIPS & CLAMPS REFER TO PLATE 15

FOR DETAILS OF SPRING TRIPS REFER TO PLATE 15

FOR DETAILS OF SHIELDS REFER TO PLATE 14

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PLATE - I "61 CULTIVATOR - SIDE VIEW

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#61 CULTIVATOR - SIDE VIEW (Cont'd)

(See Plate 1)

Item	Part Number	Qty.	Name
42	TW-104	2	Adjusting Eyebolt for Spring - Steel
	911326	2	7/16, Square Nut
43	913340	1	3/8 x 1, Carriage Bolt, w/Hex Nut
	904206	1	3/8, Lockwasher
44	913363	2	7/16 x 2, Carriage Bolt, w/Hex Nut
	904207	2	7/16, Lockwasher
	913520	2	7/16 x 1, Hex Head Bolt
45	904207	2	7/16, Lockwasher
	912818	9	7/16 x 1-1/4, Hex Head Bolt
46	904207	9	7/16, Lockwasher
	913485	4	7/16 x 1-1/2, Hex Head Bolt
47	911430	16	9/16 x 1-1/4 x #20 Gauge, Plate Washer
	911401	4	9/16 x 1-1/4 x #12 Gauge, Plate Washer
	904207	4	7/16, Lockwasher
48	913521	1	7/16 x 2-1/4, Hex Head Bolt
	904207	1	7/16, Lockwasher
	913521	6	7/16 x 2-1/4, Hex Head Bolt
49	913130	6	17/32 x 1-3/4 x #11 Gauge, Plate Washer
	904207	6	7/16, Lockwasher
	913487	3	7/16 x 2-1/2, Hex Head Bolt
50	904207	3	7/16, Lockwasher
	912820	4	1/2 x 1-1/4, Hex Head Bolt
	911430	18	9/16 x 1-1/4 x #20 Gauge, Plate Washer
51	911401	4	9/16 x 1-1/4 x #12 Gauge, Plate Washer
	904208	4	1/2, Lockwasher
	912631	4	1/2 x 1-1/2, Hex Head Bolt
52	904208	4	1/2, Lockwasher
	912821	2	1/2 x 2-1/2, Hex Head Bolt
53	904208	2	1/2, Lockwasher
	910047	1	7/16 x 1-1/4, #3 Head, Flow Bolt
54	904207	1	7/16, Lockwasher
	912463	2	1/4 x 1-1/2 Type #5, Groove Pin
55	911539	1	3/8 x 3/4, Oval Head Rivet
56	911386	1	25/32 x 1-1/2 x #10 Gauge, Plate Washer
57	913130	2	17/32 x 1-3/4 x #11 Gauge, Plate Washer
58	912037	2	1-1/32 x 1-3/4 x #12 Gauge, Plate Washer
59	911426	3	1-5/16 x 1-3/4 x #16 Gauge, Plate Washer
60	912024	2	1-1/16 x 1-1/2 x #12 Gauge, Plate Washer
61	903643	4	5/8 x 1-1/4, Hex Head, Capscrew
62	912024	4	11/16 x 1-1/2 x #12 Gauge, Plate Washer
	904209	4	5/8, Lockwasher
63	903813	4	5/8 x 7/8 - Sq. Hd. Cup Point, Set Screw
64	904005	1	3/16 x 3/4, Cotter Pin
65	900938	4	3/16 x 1, Cotter Pin
66	900810	2	3/16 x 1-1/4, Cotter Pin
67	900811	4	3/16 x 1-1/2, Cotter Pin
68	900812	3	3/16 x 1-3/4, Cotter Pin
69	307933	2	Clamp Plate - Steel
70	307976	4	U-Bolt - Steel
71	308217	2	Shank Clamp - Steel
72	910881	8	7/16, Hex Nut

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