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MANUAL PREVIEW

Allis Chalmers

Operator's Manual

WD & WD45 Attachments

**Plows, Planters, Cultivators,
Blades, Discs & Mowers**

Operator's Manual

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SPECIFICATIONS

BASE MACHINE - Used with both rear-mounted and trail-type mowers. To complete mower, add necessary attaching parts and cutter bar as listed below.

REAR MOUNTED ATTACHING PARTS - for "Allis-Chalmers" WD-WD-45 and CA tractors only. Tractor must be equipped with SNAP-COUPLER hitch and lift arm latches.

TRAIL-TYPE ATTACHING PARTS - for all make tractors with ASAE drawbar and P.T.O. Includes: Ball and socket hitch, carrying frame with 2-4.00 x 8 air tires wheels, 35 PSI air pressure, P.T.O. shaft and safety shield. (Order hydraulic remote ram and hose from tractor manufacturer.)

CUTTER BAR EQUIPMENT - 6 and 7 foot bar with heavy duty or forged guards. Optional smooth or underserrated knives. Two sickles included with each cutter bar.

CUTTER BAR CONTROL

Rear Mounted - hydraulic, through tractor lift arms.

Trail-Type - hydraulic, through remote control ram.

For transport, cutter bar locks on rigid support arm with automatic latch, eliminating screw-type transport rod.

SICKLE - Length of stroke, 2-1/2". Maximum strokes per minute 2800. Protected by spring loaded safety break-back.

DRIVE - Revolutionary and exclusive "TWIN WHEEL" drive - No Pitman - 2 enclosed, counter-balanced flywheels and connecting rods. V-belt drive from P.T.O. to oil bath gear case. Eleven high grade anti-friction bearings.

WEIGHT

Base Machine	380 lbs.
Rear-mounted attaching parts	160 lbs.
Trail-type attaching parts	296 lbs.
7-foot cutter bar	125 lbs.
6-foot cutter bar	107 lbs.

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TO HITCH AND UNHITCH REAR MOUNTED MOWER



FIG. 1

TO HITCH REAR MOUNTED MOWER

Fig. 1 - 2 Tilt cutter bar to last or second last hole.

CAUTION: Do not tilt cutter bar forward when it is in transport position.

Raise bar to transport position and open spring release lever. Back tractor into snap coupler latch. With both lift arm brackets tilted forward raise brackets to lift arms and latch. Raise front of lift arm brackets around lift arms and insert pins. Secure with quick hitch pins. Attach universal joint to the P.T.O. shaft and shield to tractor platform. Raise mower, attach inner shoe balance spring lift links, close spring release lever. **NOTE:** Depending upon tire size and levelness of ground it may be necessary to add a block under lower sheave shield so that snap coupler eye is approximately 14" from ground or to the height of the center of the snap coupler bell housing.

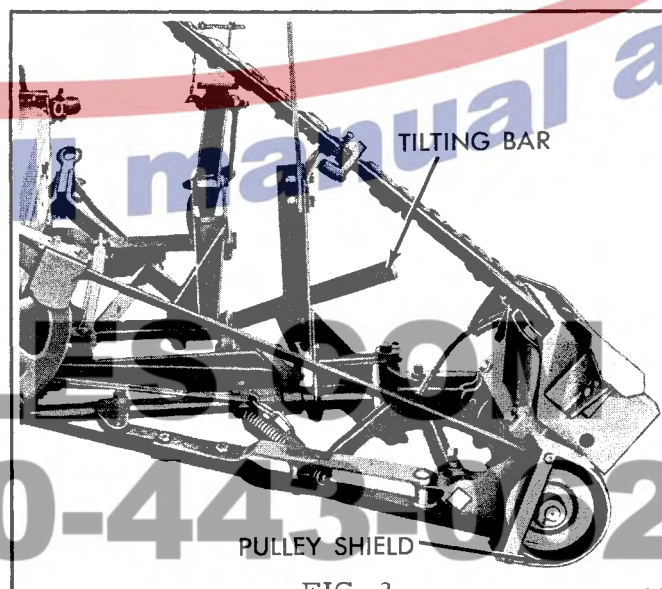


FIG. 2

TO UNHITCH REAR MOUNTED MOWER

Fig. 1 - 2 With mower raised, cutter bar in transport position and tilted to the last or second last hole open spring release lever. Detach inner shoe balance spring lift links.

Lower mower. Detach lift bracket from lift arms. Detach shield and pull universal from P.T.O. shaft. Open snap coupler latch and move tractor forward.

NOTE: Balance spring support assy. must be removed before attaching all mounted plows or implement when there is interference.

TO LEVEL CUTTER BAR & LIGHTEN OUTER SHOE

Fig. 2 Raise mower, place bar in transport position. Release spring lever assy. Remove headed pin from bellcrank. Adjust spring anchor strap to desired hole. Install headed pin and cotter pin, close lever. Placing more tension on cutter bar balance spring eliminates bar sag and lightens outer shoe. Minor adjustment for leveling bar and changing ground weight of outer shoe can be accomplished by shortening or lengthening bar lift rod.

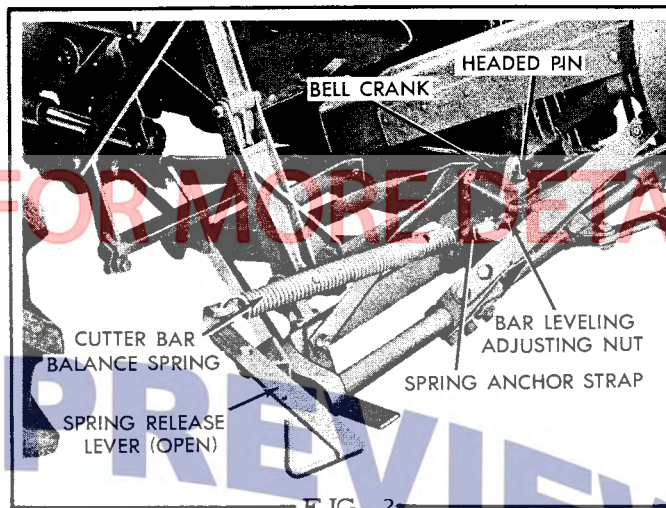
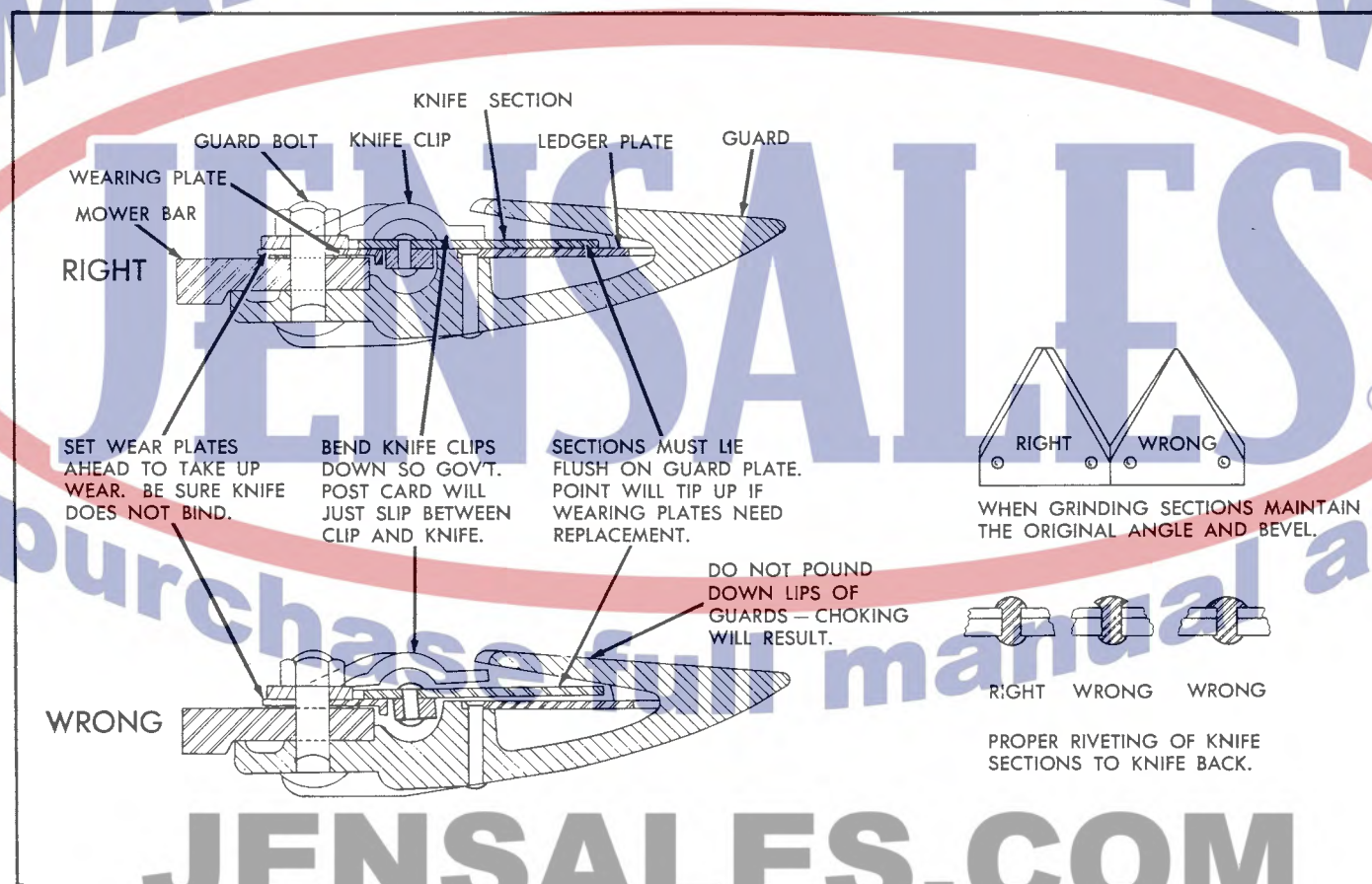


FIG. 2

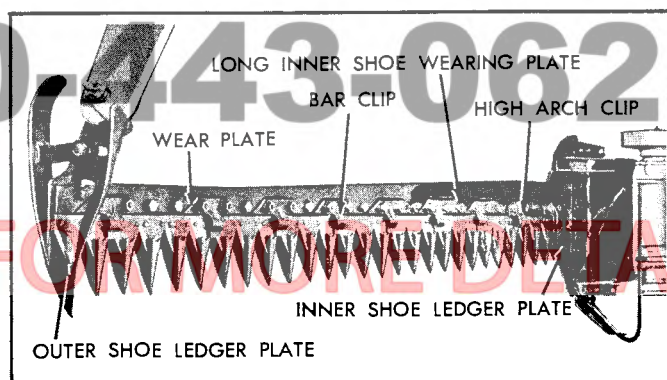


WEAR PLATES

One long and five smaller wear plates are provided to compensate for knife wear. As wear occurs on back of knife move slotted plates forward. Leave knife free to move without bind.

KNIFE CLIPS

Maintain 1/64" clearance between clips and knife sections. To reduce clearance bend clips down with hammer. If too close pry up with screwdriver.



ADJUSTMENTS AND MAINTENANCE

FERTILIZER HOPPER

Fertilizer should not be left in hoppers over night. Clean feed plates, hopper base bearings and other parts after each day's use to avoid caking and damage to hoppers and drive. To clean hoppers - remove three wing nuts from hopper base casting and lift hopper can off of base.

FERTILIZER FEED ADJUSTMENT

The rate of flow of fertilizer is controlled by the gate at the inner side of the fertilizer hopper. Adjust gate for a given amount of fertilizer per

acre after making trial runs in the field. Approximately 1000 lbs of free running fertilizer can be drilled per acre on 40 inch rows with gate wide open. With a light fine fertilizer the maximum amount drilled will be less and best results will be obtained with approximately 3/4 opening of the gate.

HOPPER SLIP CLUTCHES

Put a few drops of oil on fertilizer hopper clutches as needed to avoid rusting or sticking. Never run drive mechanism if clutches slip too frequently. Empty hoppers and determine cause of slippage.



FIG. 12

DRIVE ASSEMBLY

Adjust throwout link (27) Fig. 12 so cam (21) disengages drive assembly when cultivator is fully raised.

EMPTYING FERTILIZER HOPPERS

There are two methods of emptying these hoppers.

1. Tipping Hoppers

- Remove hopper drive chain from sprockets.
- Loosen bolt (13) Fig. 12 and remove brace (26).
- Disconnect throwout link (27) from lift bail.
- Loosen bolt holding brackets (14) Fig. 13 to arm (31) on hopper frame.
- Remove fertilizer spouts from boots.

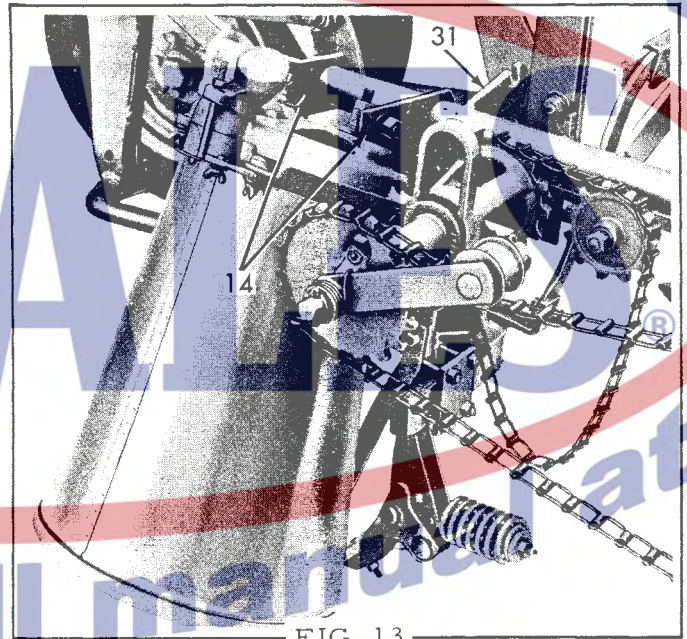


FIG. 13

F. Tip hoppers outward and down.

2. Lifting hoppers

- Remove the three wing nuts (37) Fig. 12 from hopper base.
- Remove hopper lid and lift straight up on agitator handle on inside of hoppers. **CAUTION:** Do not tip hoppers while lifting off of base otherwise fertilizer will spill. Be sure pivot washers are left in hopper base.
- After hopper is lifted off base, set in tub or open sack and lift up on hopper sides to spill fertilizer out through bottom of hopper.



FIG. 36

ATTACHING SCRAPER

Attach tool bar 72" or longer to tool bar frame. Block up under beam (89) Fig. 36 or index plate (93) so scraper is upright. Back tractor to scraper and raise or lower tool bar with hydraulic lift to correct height for attaching. Attach clamp casting (88) securely to center of tool bar.

EXTRA EQUIPMENT

EXTENSIONS

Attach extensions (94) Fig. 37 to moldboard. Align extensions with moldboard, then tighten attaching bolts.

END PLATES

End plates (95) Fig. 37 may be attached to moldboard or extensions (94). Tighten attaching bolts securely.

DITCHING POINT

Attach special ditching point (96) Fig. 38 to L.H. corner of blade. The use of this point is recommended if considerable ditching is to be done.



FIG. 37



FIG. 38

This point prevents wear which is localized at end of cutting edge when ditching.

ADJUSTMENTS



FIG. 39

TILT ADJUSTMENT

Adjust tilt of moldboard by means of hand wheel (91) Fig. 39.

PITCH ADJUSTMENT

Pitch or suck on moldboard is adjusted by means of two adjusting screws (84) Fig. 39. In addition to this adjustment, use adjusting screw (8) so beam (89) is parallel with ground.

ANGLE ADJUSTMENT

A series of holes in index plate (93) Fig. 39 permit angling moldboard in nine different positions. One pin (97) is used to hold moldboard in position.

REVERSING MOLDBOARD

If wheel tread permits, raise pin (97) Fig. 39 and rotate moldboard to the rear position shown in Fig. 40.

If wheel tread interferes with reversing mold-

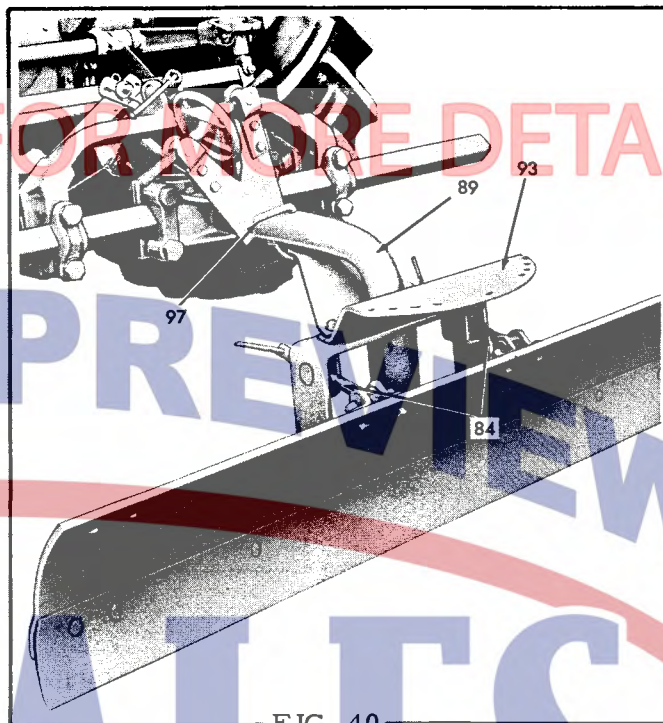


FIG. 40

board, unhitch from scraper. Remove pin (93) Fig. 39 and swing tongue until pin can be placed through beam (89) and reversing plate (82) as shown in Fig. 40.

If it is necessary to angle moldboard when it is reversed, change position of index plate (93) and reversing plates (82) by removing two bolts, then insert pin (97) through beam (89) and index plate at the desired angle.

To prevent gouging when backfilling, adjust suck or pitch of moldboard by means of adjusting screws (84) so moldboard will float.

HITCHING AND UNHITCHING

Refer to Coil Shank Cultivator hitching and unhitching page (12). In addition turn hand wheel to align lift links with lift arm latches.

OPERATION

Refer to Operating Information (hydraulic system) page (4); also refer to Tool Bar Frame adjustments page (8).

WD REAR LIFT FRAME

SETTING UP DIRECTIONS



FIG. 1

REAR LIFT FRAME

Attach right and left support assembly (1) Fig. 1 to tractor side frames. Remove pin (2) and detach tractor drawbar from fork, then install draft control weld assembly (3) and secure with the regular drawbar pin (2). Adjust tractor drawbar to shortest length and attach to draft control weld assembly by means of pin (4). Install swing links (5) using spacer bushings at bolt locations, also washers (6) between links (5) and arms on draft control weld assembly (3). Install links as per dimensions shown so bolt (7) is below center. Install lower links (8) between swing links (5). **NOTE:** Refer to Fig. 4 and 5 if longer links are used.

Remove studs (9) Fig. 2, and install top link assembly (10) R.H. bracket (11) and L.H. bracket (12) securing with capscrews furnished. Bearing brackets (11) and (12) must be mounted with bushings (13) extending outward.

Attach lift links (14) to lower links (8) by means of cam eccentrics (15). Attach upper end of lift links to lift shaft arms (16) using bushings on the attaching bolts. Two sets of holes are provided at top of links (14) and depending on tire size and working conditions either set of holes may be used. Maximum transport clearance will be obtained when links are attached in lower set of holes.

The attaching points (17) on lower links must be level with tractor. To adjust, loosen both nuts on eccentrics (15) and rotate cam with a screw driver until points (17) are an equal distance from a level floor. Hold cam in position with screwdriver and retighten nuts.

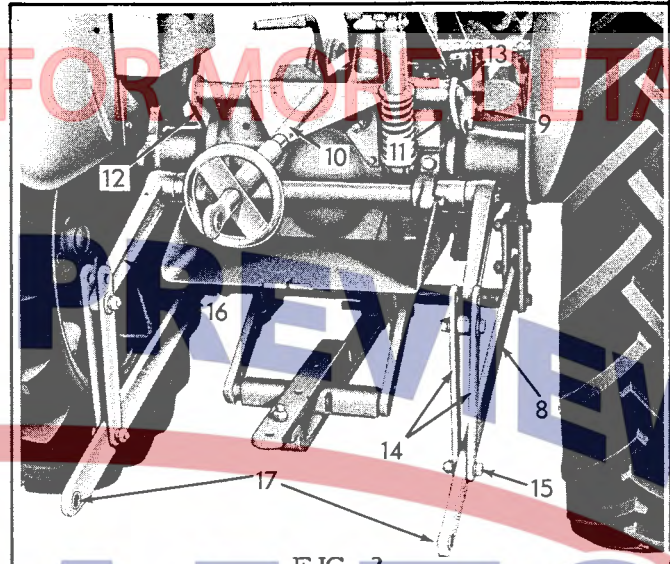


FIG. 2



FIG. 3

SUPPORT FRAME

The support frame for mounting the various length tool bars is not required when attaching the Mounted Offset Disc Harrow, the Subsoiler, or the Subsoiler with Ditcher Attachment.

Attach support frame (18) Fig. 3 to top link (10) and lower links (8) securing the attaching pins with Quick Hitch Pins (19). Make certain spacer, bolt and nut (20) is assembled in top of support frame. Center tool bar in clamps (21), then tighten attaching bolts.

NOTE: Three different length tool bars are available, namely: 72 inch, 96 inch and 130 inch. All tool bars attach to support frame in exactly the same manner.