

INSTALLATION INSTRUCTIONS FOR KINZE 2500/3500

THE KINZE 2500 PLANTER IS FACTORY EQUIPPED WITH ONLY 1 SEED TRANSMISSION AND 1 SEED SHAFT. IN ORDER TO BE ABLE TO HAVE POINT ROW CONTROL WE MUST DIVIDE THE SEED SHAFT AND ADD THE PROPER SHAFTING TO DRIVE BOTH SEED SHAFTS. PLEASE FOLLOW THESE ILLUSTRATED INSTRUCTIONS.

BEGIN BY MODIFYING THE RATE TRANSMISSION AS FOLLOWS: REMOVE THE PINS FROM THE COUPLER ON THE SEED SHAFT AND REMOVE THE COUPLER *FIG 1-A*. SAVE THE COUPLER FOR LATER USE. NOTE! YOU MAY HAVE A FINGER TYPE COUPLER IN THIS POSITION. IF SO REMOVE THE FINGER COUPLER AND USE THE SUPPLIED SHAFT COUPLER LATER. SLIDE THE STUB SHAFT OUT. *FIG 1-B*

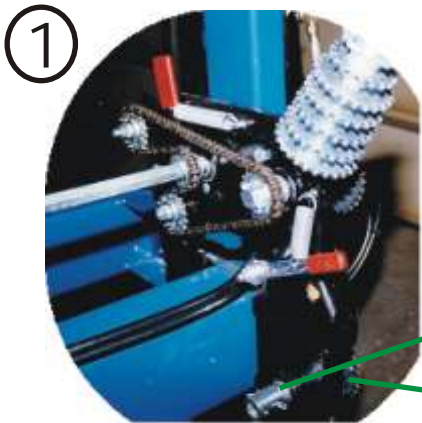


FIG 1

- (A) REMOVE THIS COUPLER SET ASIDE FOR LATER
- (B) REMOVE THIS SPROCKET AND STUB SHAFT

- 2 SAW ABOUT 3-4 INCHES FROM SEED SHAFT (*FIG 5-A*)
- BOLT A BEARING HANGER TO THE EXISTING HOLES IN THE ROW UNIT BRACKET TO SUPPORT THE STUB SHAFT (*FIG 5-C*)

REPLACE THE ORIGINAL STUB SHAFT WITH THE LONGER STUB SHAFT WHICH CAME WITH THE CLUTCH KIT. REINSERT ALL ROLL PINS AND THE ORIGINAL SPROCKET ON THE NEW STUB SHAFT *FIG 2-A*

BOLT THE SUPPLIED TRANSMISSION HANGER BRACKET TO THE 4 BOLT PATTERN SHOWN IN *FIG 2-B*. USE THE SUPPLIED BOLTS

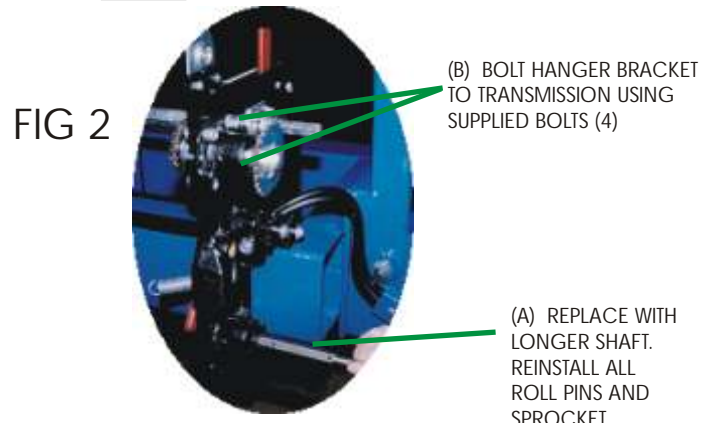


FIG 2

- (B) BOLT HANGER BRACKET TO TRANSMISSION USING SUPPLIED BOLTS (4)

- (A) REPLACE WITH LONGER SHAFT. REINSTALL ALL ROLL PINS AND SPROCKET

- 3 BOLT THE SUPPLIED ANGLE BRACKET TO THE TOOLBAR USING SUPPLIED U-BOLT. BOLT ANGLE IMMEDIATELY TO THE RIGHT OF THE RIGHT WHEEL TOWER. *FIG 3A*



FIG 3

- (A) BOLT TO TOOLBAR JUST TO THE RIGHT OF THE WHEEL TOWER

- 4 IN THE CENTER OF THE PLANTER YOU WILL FIND THE MAIN PIVOT WELDMENT. *FIG 4-A*. EACH OF THE FLANGES HAS 2 HOLES IN THEM. *FIG 4-B*. BOLT 1 SUPPLIED BEARING SUPPORT TO EACH FLANGE. *FIG 4-C*. USE THE 1/2 BOLTS AND STEEL BUSHINGS SUPPLIED. *FIG 4-D*

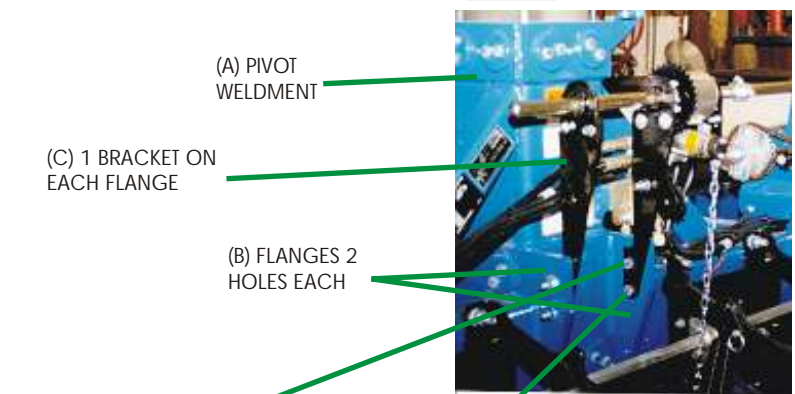


FIG 4

- (A) PIVOT WELDMENT

- (C) 1 BRACKET ON EACH FLANGE

- (B) FLANGES 2 HOLES EACH

- (D) USE 1/2 BOLT, LARGE WASHER AND SUPPLIED THICK BUSHING ON THIS HOLE

- USE 1/2 BOLT AND WASHER & LOCK WASHER ON THIS HOLE

- 5

CLAMPS

24 TOOTH SPROCKET

- 6

SLIDE THE SHORT SHAFT THRU THE TRANSMISSION BEARING HANGER AS SHOWN IN FIG 5. AFTER SLIDING THE SHAFT THRU ABOUT 5 OR 6 INCHES INSTALL 2 CLAMPS 1- 24 TOOTH SPROCKET AND 1 MORE CLAMP IN THAT ORDER. NOW SLIDE THE SHAFT SO IT IS JUST THRU THE WHEEL MODULE BEARING BRACKET (NOT SHOWN IN FIG 5)

INSTALL THE CHAIN TIGHTNER WITH THE LONG BOLT AND STANDOFF THRU THE EXISTING HOLE IN THE TRANSMISSION FRAME (FIG 5-B)

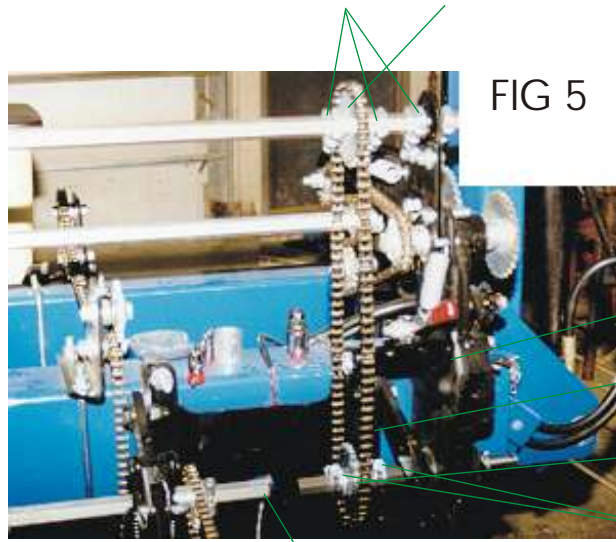


FIG 5

ON THE LOWER STUB SHAFT SLIDE 1 CLAMP, 1-24 TOOTH SPROCKET AND 1 MORE CLAMP IN THAT ORDER.

INSTALL THE SHORTEST OF THE SUPPLIED ROLLER CHAINS AROUND THE 24 TOOTH SPROCKETS.

(B) Bolt chain tightner here

(C) BOLT BEARING HANGER HERE. USE EXISTING HOLES

24 TOOTH SPROCKET

CLAMPS

(A) SAW ABOUT 3-4 INCHES FROM SEED SHAFT

DO NOT TIGHTEN ANYTHING YET

SLIDE THE LONG SHAFT THRU THE 2 CENTER BEARING BRACKETS WHICH HAVE BEEN INSTALLED ON THE CENTER PIVOT ASSEMBLY. (FIG 6-A) SLIDE 1 CLAMP, 3 MACHINERY BUSHINGS, THE CLUTCH THAT IS MARKED RIGHT & ANOTHER CLAMP IN THAT ORDER ONTO THE SHAFT. (FIG 8-A) SLIDE THE SHAFT UNTIL IT NEARLY COMES IN CONTACT WITH THE SHORTER SHAFT INSTALLED EARLIER. COUPLE THE TWO SHAFTS TOGETHER WITH THE ORIGINAL COUPLER REMOVED IN STEP 1 AND THE SUPPLIED 1/4 ROLL PINS. (FIG 6-B) THE COUPLED SHAFT SHOULD LOOK LIKE THE PHOTO FIG 7.

7

(A) SLIDE SHAFT THRU 2 CENTER BRACKETS

(B) COUPLE THE LONG AND SHORT SHAFT TOGETHER

FIG 6



COUPLE THE LONG AND SHORT SHAFT TOGETHER

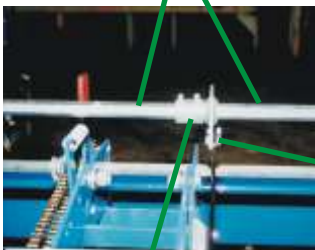


FIG 7

WHEEL MODULE BRACKET

COUPLER

(A) 3 MACHINERY BUSHINGS BETWEEN CLUTCH AND CLAMP

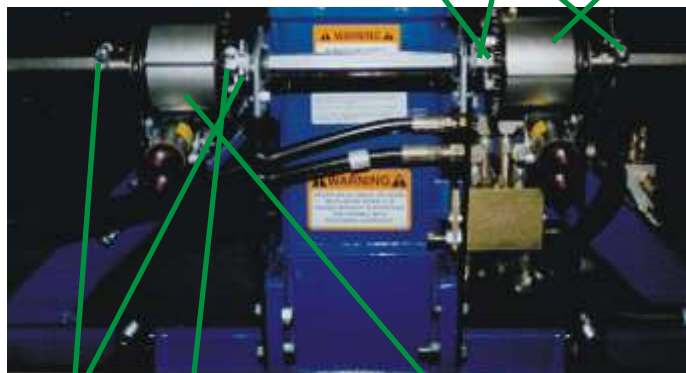
(A) CLAMPS

(A) 1 RIGHT CLUTCH

FIG 8

AFTER THE SHAFTS ARE COUPLED TOGETHER SLIDE THESE COMPONENTS ONTO THE LEFT END OF THE SHAFT IN THIS ORDER: 1 CLAMP, 3 MACHINERY BUSHINGS, CLUTCH MARKED LEFT, 1 MORE CLAMP. (FIG 8-B)

8



(B) CLAMPS

(B) LEFT CLUTCH

9

SAW ABOUT 4-5 INCHES FROM THE CENTER OF THE SEED SHAFT (FIG 9-A)

SLIDE 1 CLAMP 1 30-TOOTH SPROCKET 1 MACHINERY BUSHING AND 1 MORE CLAMP ON BOTH OF THE RIGHT AND LEFT SEED SHAFTS (FIG 9-B)

AT THIS POINT TIGHTEN ALL CLAMPS AND BEARING HANGERS. MAKE SURE THAT THE NEW JACK SHAFT IS STRAIGHT AND PARALLEL TO THE TOOLBAR BY MEASURING THE DISTANCE ON EACH END.

ALIGN THE 30-TOOTH SPROCKETS AND INSTALL THE LONGER ROLLER CHAINS BETWEEN THE CLUTCH AND THE SEED SHAFT SPROCKET. CLAMP THE CLUTCHES AND SPROCKETS IN PLACE. (FIG 9-C)

INSTALL THE CHAIN TIGHTNERS WITH THE SHORT BOLT AND 5 WASHERS TO EACH HANGER BRACKET (FIG 9-D). IF ANY CHAIN IS INTERFERING WITH ANY PART OF THE PLANTER PLEASE RE-CONFIGURE THE CHAIN TIGHTNERS.

(B) 3 MACHINERY BUSHINGS

(D) INSTALL CHAIN

© ALIGN SPROCKETS AND INSTALL CHAIN. CLAMP ALL IN PLACE BOTH SIDES

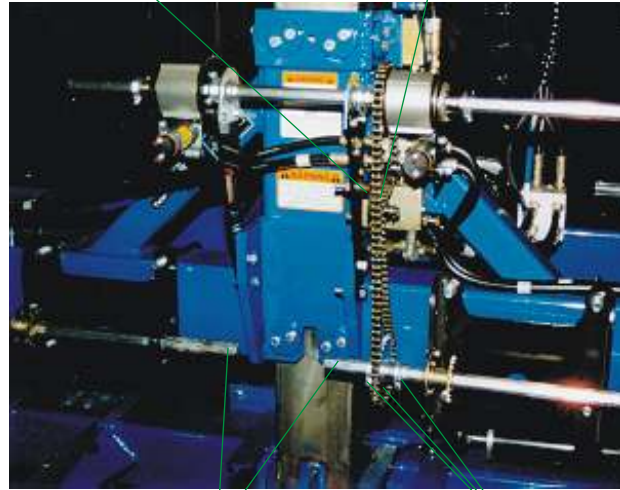


FIG 9

(A) SAW 4- 5 INCHES FROM CENTER OF SHAFT

(B) SLIDE CLAMPS, SPROCKET, ETC. ONTO BOTH SEED SHAFTS

10

TO INSTALL THE WIRING HARNESS SIMPLY RUN THE PLANTER HALF OF THE HARNESS ALONG THE SAME PATH AS THE MONITOR OR HYDRAULIC LINES. SECURE THE WIRES MARKED "R" TO THE CLUTCH ON THE RIGHT SIDE. ATTACH THE RED WIRE TO THE + TERMINAL ON THE SOLENOID. AFTER INSTALLING THE PLANTER HARNESS BE SURE TO SECURE IT WITH SUPPLIED WIRE TIES MAKING SURE IT IS NOT PINCHED OR STRETCHED DURING FOLDING.

PLACE THE TRACTOR HALF OF THE HARNESS IN THE CAB IN A COMFORTABLE PLACE USING THE VELCRO FASTENER ATTACHED TO THE BOX. RUN THE BLACK WIRE ON THE POWER CORD TO GROUND AND THE RED WIRE TO 12 VOLTS DC. SOLENOIDS MUST BE SUPPLIED WITH 12 VOLTS. PLUG THE TRACTOR HALF OF THE HARNESS TO THE PLANTER HALF AND TEST THE HOOKUP. BY SWITCHING THE RIGHT SWITCH THE RIGHT SOLENOID SHOULD ACTIVATE AND THE AMBER LIGHT ON THE CONTROL BOX SHOULD LIGHT.

TEST THE CLUTCHES BY THE FOLLOWING METHOD: DISCONNECT ALL CHAINS CONNECTING THE GROUND DRIVE TO THE TRANSMISSION. TURN THE NEW JACK SHAFT WHICH WAS JUST INSTALLED WITH A 7/8 WRENCH. BE SURE TO TURN IT TOP FORWARD!!

WHILE TURNING THE JACK SHAFT YOU WILL ALSO SEE BOTH RIGHT AND LEFT SEED SHAFTS ROTATING. GRAB THE LARGE SILVER RING ON EACH CLUTCH AND THE CORRESPONDING SEED SHAFT WILL STOP. IF NOT THE CLUTCHES ARE PROBABLY INSTALLED ON THE WRONG SIDE (RIGHT ON LEFT LEFT ON RIGHT)

BY INSTALLING THE CLUTCH ASSEMBLY YOU ACCEPT ANY AND ALL RESPONSIBILITY AND LIABILITY FOR YOUR PLANTERS OPERATION. THERE ARE NO EXPRESSED OR IMPLIED WARRANTIES EXTENDED BY THE MANUFACTURER EXCEPT THAT THE MANUFACTURER WILL REPLACE ANY AND ALL DEFECTIVE PARTS IN THE PACKAGE IF THE REQUEST FOR REPLACEMENT IS MADE WITHIN 6 MONTHS OF DATE OF PURCHASE AND PROPER PROOF OF PURCHASE IS PRESENTED.

TRU COUNT INC 515-232-8285