

# Bolens®

## Three Point Hitch Installation Instructions With Parts List

**Model 18086**

Serial Numbers 0100101 thru 0199999

**ASSEMBLY**

1. Place pivot shaft supports (A) over the ends of the pivot shaft with the chamfer to the top.

2. Place the above assembly into the rear of the frame rails with the two arms on the left side of tractor and the long arm up. See Figure 1. Secure into place with hex capscrews 1/2-13 x 1 and lockwasher (B).

3. Install grease fitting (C) into each pivot shaft support.

**NOTE**

The fitting should face out from the rear of the tractor to facilitate greasing.

4. Secure hitch bracket (D) to the upper rear of the transaxle with hex capscrews 1/2-13 x 1 and lockwashers.

5. Attach long adjusting link (E) to

the hitch bracket with clevis pin 5/8 x 2-1/4 and hair pin.

6. Secure lower link assemblies (F) to the upper holes of the implement hitch with clevis pins 5/8 x 3-13/16, and Retaining pin.

**NOTE**

The end of the link with the two holes is to be towards the rear. The counterbore of angular hole (G) is to be to the outside.

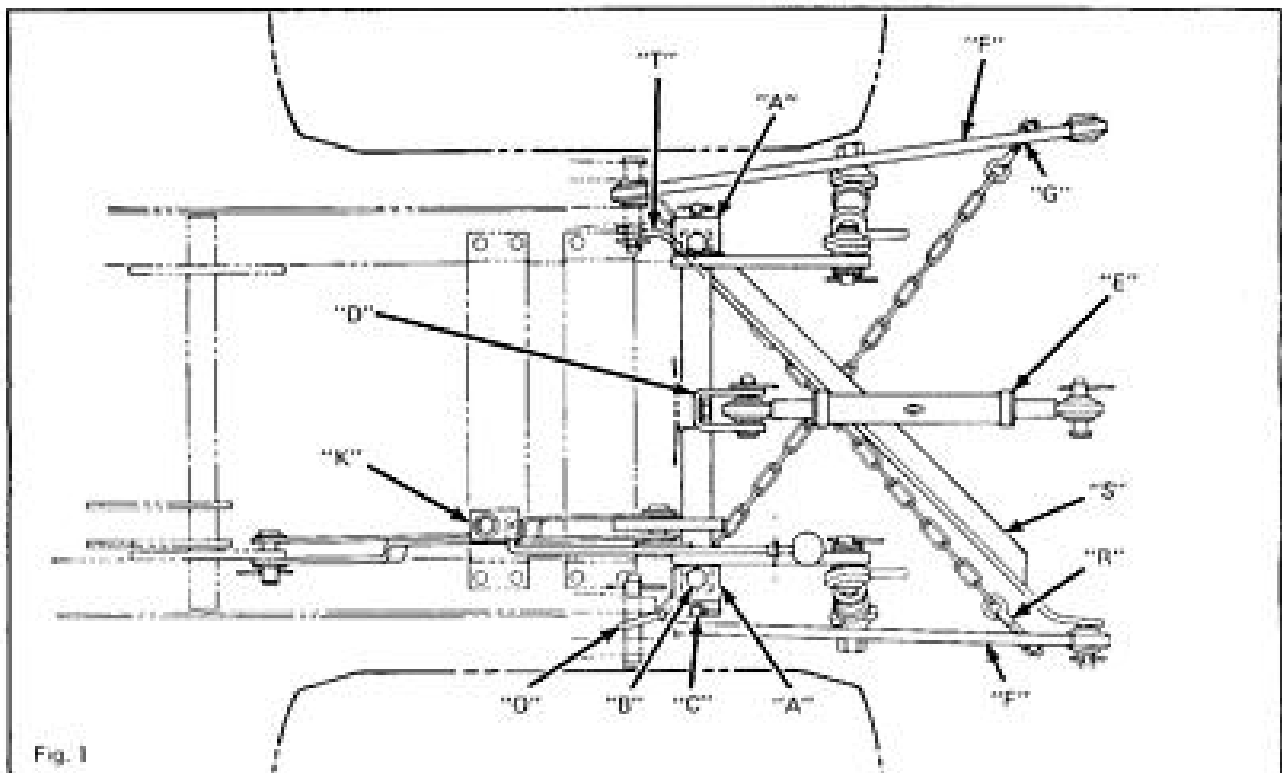


Fig. 1

FORM 552539-1 (4/79)  
SUPERSEDES 552539

## ASSEMBLY (continued)

7. Attach one end of the short adjusting links (H) to the outside of the pivot pick-up arms (I). Secure with clevis pin 5/8 x 2-1/4, three washers and spring cotter pin.

8. Secure the lower end of the short adjusting links to the lower link assemblies (F) with hex capscrew 5/8-11 x 2 and hex nut 5/8-11. Torque to 110 foot pounds (148 Nm).

9. With a sharp knife cut out reflector decal on left side of rear fender over 1/2 inch diameter hole. Install snap bushing (J) No. 1724779 into this hole, with the flange to the outside.

10. Insert threaded end of control rod No. 1724780 through above bushing from the underside of fender. Install control

knob No. 1711850 onto control rod.

11. Place hook end of control rod into hole in side of block assembly (K) No. 1724782, supplied in kit.

12. Position block and control rod assembly with the detent ball up on the underside of the top bar of the transmission support. Secure through the slotted hole with hex capscrew 3/8-16 x 1-1/4 (L), bowed washer (convex side against capscrew head) and flat washer on top of support. Lock with hex nut 3/8-16 under block.

### NOTE

Adjust screw to provide a free but firm action of detent.

WHEN TRANSPORTING IMPLEMENT, RAISE HITCH AND LOCK IN POSITION BY PULLING CONTROL ROD OUT. THIS WILL HOLD HITCH IN RAISED POSITION.

13. Place one end of lift link assembly (M) No. 1724634 over control arm of pivot shaft assembly. Secure with clevis pin 5/8 x 1-1/2, flat washer 5/8 on each side of link and spring cotter.

14. Place other end of lift link assembly over rear leg of left tractor pivot shaft control arm (N). Secure with clevis pin 5/8 x 2-1/4, flat washer 5/8 on each side of link and spring cotter.

After attachment is installed attach chains as follows:

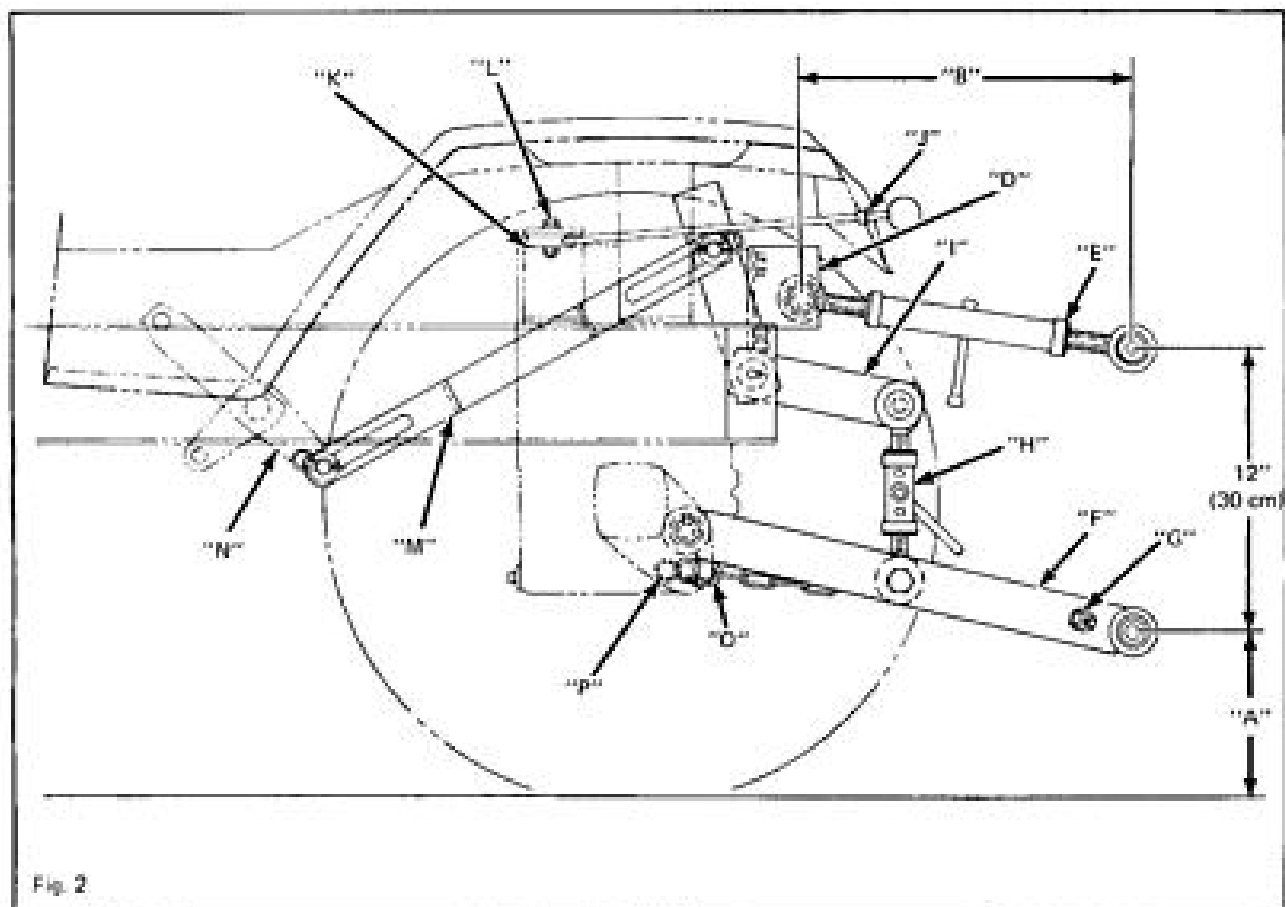


Fig. 2

## ASSEMBLY (continued)

1. Attach ring end of chain assembly (G) Figure 2 to the lower holes of the implement hitch with clevis pin 3/4 x 2 3/4 and heavy spring cotter (P) No. 0135035.

2. Secure eyebolt of chain assembly to the angular hole (G) in the lower links with pivot No. 1715525, flat washer 5/16 and hex lock nut 5/16-18.

### NOTE

Cross the chains so that the left-hand lower link assembly and right-hand chain is connected and the right-hand lower link assembly and left-hand chain is connected. Raise hitch to fully raised position and take out play in chains by adjusting lock nuts on eyebolts (R). Adjust chains so that there is approximately 20 inches (50 cm) inside between lower link assemblies. See Figure 1.

### NOTE

Adjust chains so that lower links do not hit tires.

If chain is attached to the upper pin of the rear axle hitch points, the chains may be adjusted with hitch in either raised or lowered position.

### IMPORTANT

DO NOT ADJUST CHAINS TOO TIGHT, BUT RATHER ALLOW A VERY SLIGHT AMOUNT OF SLACK TO PREVENT THEM FROM SNAPPING OR FROM DAMAGING THE HITCH.



### CAUTION

IMPROPER ADJUSTMENT MAY DAMAGE THE TRACTOR AND/OR ATTACHMENTS, THEREFORE, AFTER MOUNTING OR CHANGING AN ATTACHMENT ALWAYS MOVE ATTACHMENT SLOWLY THROUGH ITS COMPLETE RANGE TO MAKE SURE THERE IS NO BINDING AND/OR INTERFERENCE.

SEE FIGURE 2 AND CHART FOR ADJUSTMENTS.

### NOTE

An anti-sway bar (S) Figure 1 is furnished with this hitch. An anti-sway bar is generally used when the attachment normally produces a side load. The anti-sway bar may be used when doing side hill plowing, but not contour plowing.

The use of an anti-sway bar in plowing creates some steering problems if plow is not set properly, the plow beam may become bent. Whenever using a grader or rake attachment or any rear mounted attachment which would have a large amount of side thrust the anti-sway bar should be used, if the attachment is not already equipped with an anti-sway bar.

### TO ATTACH ANTI-SWAY BAR (FIGURE 1):

(A) Remove spring pin from special link pin in right hand rear axle hitch point (T). Attach one end of the anti-sway bar and replace spring pin.

(B) Attach other end to rear of the left-hand assembly with the attachment draw bar shaft. Secure with spring pin.

### IMPORTANT

When using some attachments it may be necessary to attach sway bar opposite previous way explained. Secure to the left-hand rear axle hitch point and to the rear of the right-hand lift assembly. When using the anti-sway bar the stabilizer chains can be removed. Store the chains in a safe place so they would be handy when you would want to reinstall them again.

### NOTE

Final adjustments that will be required are outlined in the attachment owner manual for that specific attachment being used.

### NOTE

Always raise a ground penetrating attachment before turning the tractor.

Place extra No. 1724640 clevis pin 5/8 x 2-1/4 into rear eye of long turnbuckle and secure with spring cotter.

Two No. 1719349 Kik pins are supplied for securing the attachment hitch pins at time of use.

APPROXIMATE 3 POINT HITCH SETTINGS in./cm

DESCRIPTION	HEIGHT LOWER HITCH POINT A		UPPER LINK B
	LEFT	RIGHT	
12" PLOW	9-3/8"/24	10-5/8"/26.9	14-3/8"/36.5
DISC HARROW	10"/25.4	10"/25.4	14"/35.6
CULTIVATOR	8"/20.3	8"/20.3	13-1/2"/34.3



