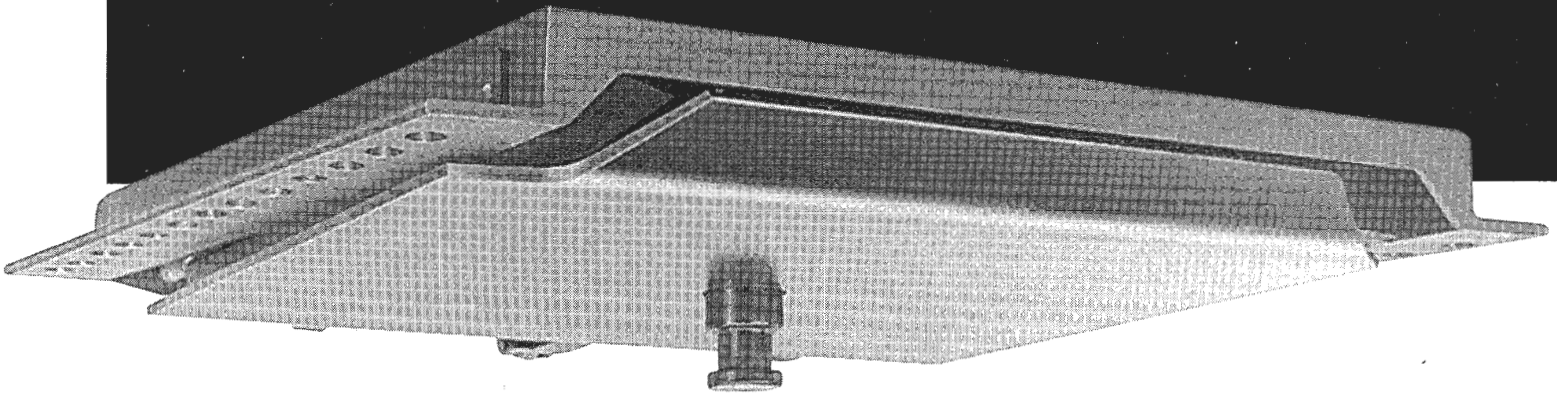




# INSTALLATION INSTRUCTIONS



## CRK 20<sub>SERIES</sub> AIR RIDE UPPER COUPLER

**CAUTION!**

**DO NOT REMOVE ANY  
BOLTS, NUTS, COTTER PINS, ETC.  
FROM THE CRK 20.**

**UNIT IS "ROAD READY".**

## **INSTALLATION INSTRUCTIONS**

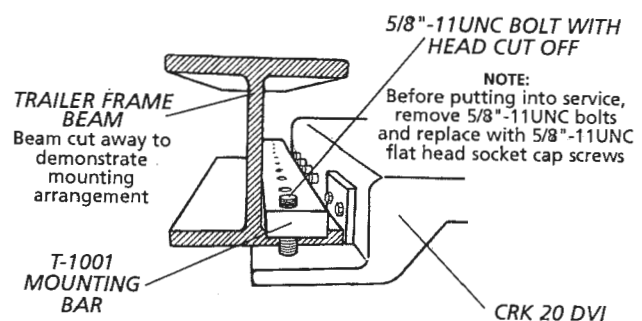
- 1.** Examine the CRK 20 unit for any damage that may have occurred during shipping.
- 2.** Measure the bolt pattern in the CRK 20 to be sure it matches the existing bolt pattern in the trailer frame.
- 3.** Bolt the CRK 20 unit in place using Grade 8 bolts with Grade 8 self-locking nuts and hardened washers, using a fork lift or other means to hold in place while bolting the unit to the frame.

Tighten to:

1/2 bolts	non-plated (plain)	106 ft. lbs.
	plated or lubricated	80 ft. lbs.
5/8 bolts	non-plated (plain)	212 ft. lbs.
	plated or lubricated	159 ft. lbs.

- 4.** Connect the trailer air supply to the 1/4-inch female pipe fitting marked "AIR IN" at the rear of the CRK 20, using a 1/4-inch inch male pipe to hose adapter and 1/4-inch air hose supplied by the installer.
- 5.** Before connecting the tractor to the trailer, be sure there is sufficient lubrication on both the fifth wheel and the CRK 20 bottom plate.

**IF THE MOUNTING NUTS ARE NOT GOING TO BE ACCESSIBLE AFTER INSTALLATION, MOUNTING BAR KIT (PART NUMBER T-1001) SHOULD BE ORDERED AND INSTALLED AS SHOWN.**



THE 3/4 INCH ADJUSTMENT IS NECESSARY FOR THE CRK 20 TO WORK PROPERLY. THIS ADJUSTMENT SHOULD BE CHECKED AT REGULAR INTERVALS, AT LEAST MONTHLY OR IN THE EVENT OF A NOTICEABLE DETERIORATION IN THE RIDE.

- 6.** The ride height is NOT set at the factory. This adjustment must be set per instructions below after installation.

- a.** The ride height must be  $\frac{3}{4}$ -inch between the top and bottom plates at the rear of the unit. The location for this measurement is circled in (Figure 1). Be sure the unit is fully inflated before measuring for the proper ride height.

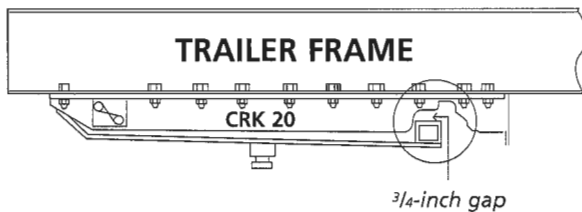


FIGURE 1

- b.** The trailer must be in an unladen condition and supported on a king pin stand or coupled to a tractor. Because of the brake protection valve, the trailer air system pressure must be at least 65 p.s.i. before the CRK 20 will begin to inflate. Allow 5 to 6 minutes after connecting the air to the trailer for the CRK 20 to inflate.
- c.** The  $\frac{3}{4}$ -inch gap between the top and the bottom plates may easily be checked by inserting a  $\frac{3}{4}$ -inch diameter bolt between the plates at the location circled in (Figure 1).

- 7.** If the gap is not  $\frac{3}{4}$ -inch, it must be set by adjusting the height control valve as described below.

### HEIGHT CONTROL VALVE ADJUSTMENT PROCEDURE

- a.** Loosen the  $\frac{1}{4}$ -inch adjusting lock nut located on the adjusting block of the height control valve (Figure 2). This will allow the adjusting block to oscillate.
- b.** Move the adjusting block in the direction necessary for the proper gap. (Up for more gap, down for less gap.)
- c.** Once the proper gap is set, retighten the  $\frac{1}{4}$ -inch adjusting lock nut to 2-4 ft. lbs. Be sure to tighten the  $\frac{1}{4}$ -inch adjusting nut properly so the control arm is clamped tightly to the adjusting block.

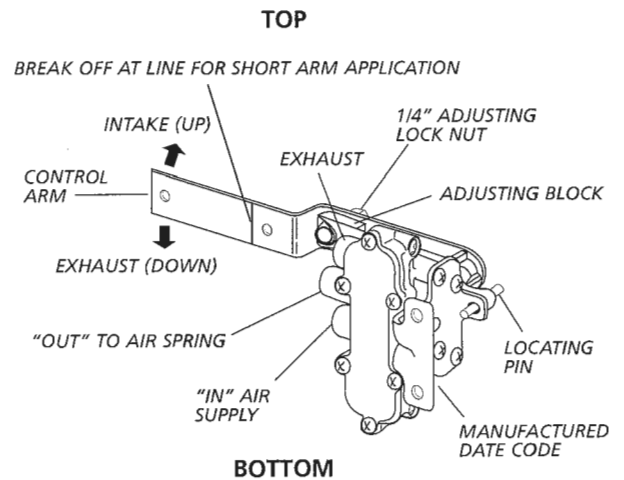


FIGURE 2