Technical Service Information

TSI–03–04–02

Date: September, 2003

Subject File: Brakes

Subject: Removal and Replacement of Air Tank Fittings

Model: 4200

Model: 4300

Model: 4400

Model: 7300

Model: 7400

Model: 7500

Model: 7600

Model: 8500

Model: 8600

Unit Code: 04091

Unit Code: 04092

DESCRIPTION

NOTICE

The information supplied herein has been furnished by the manufacturer and/or the supplier for use with its product. International Truck and Engine Corporation reprints this information based on representations made to the Company by the manufacturer and/or supplier and is not responsible for any errors or mishaps resulting from such errors or from any misuse of the product. Every user is urged to carefully follow the instructions which accompany the product.

DESCRIPTION (CONT.)

WARNING – To avoid property damage, personal injury or death, park the vehicle on a level surface, set the parking brake, chock the wheels and turn the engine off.

NOTE – Air tanks with fittings and valves (excluding pressure protection valve) that were installed with roll wire rings can be reinstalled with flat snap rings as a substitute. If the pressure protection valve was installed with a roll wire ring it must be reinstalled with a roll wire ring.

Air tanks with fittings and valves that were installed with flat snap rings must be reinstalled with flat snap rings. Roll wire rings should not be used as a substitute.

Flat Snap Ring

Fig. A

Fig. B

Fig. C

Fig. D

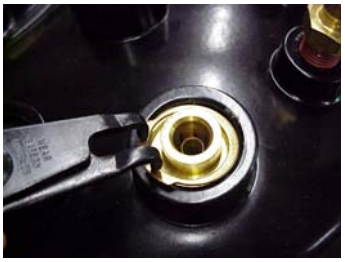

Fig. E

Fig. F

1. Make sure all air pressure is relieved from air system by opening drain valves and waiting for air to exhaust. Always wear eye protection. Keep drain valves open while servicing is being done.
2. Remove tubing from fitting by depressing collet and pulling on tubing. (Fig. A) An open-ended wrench may be used to help depress collet. If collet does not release easily, make sure all air pressure is relieved in the system and repeat.
3. Use snap-ring pliers to remove snap ring from fitting. (Fig. B)
4. Using a flat-head screwdriver, remove fitting from the bushing. (Fig. C)
5. Visually inspect the inside of the bushing for debris. Wipe away any foreign matter with a clean rag.
6. Press new insert into the bushing by hand only. (Fig. D) Hammering on top of fitting may damage the collet. Parts are pre-lubed. If additional lubrication is necessary, use only UCON # LB-550-X.
7. Insert snap ring into groove over top of fitting using snap ring pliers. (Fig. E) Make sure ring is fully seated before proceeding. (Fig. F) Examples of improperly installed snap rings are shown in (Fig. G) and (Fig. H).
8. Make sure tubing is cut square to 5º. Insert tubing into fitting, making sure it is fully seated. Pull on tubing to make sure that the fitting is properly installed
9. Charge air system. Using soap water, check to make sure fitting is not leaking.
10. If fitting leaks, repeat the steps above as necessary. Make sure o-ring is not damaged, and that tubing is fully inserted into the fitting.

Fig. G

Fig. H

Wire Ring
(Same as flat snap ring except as noted)

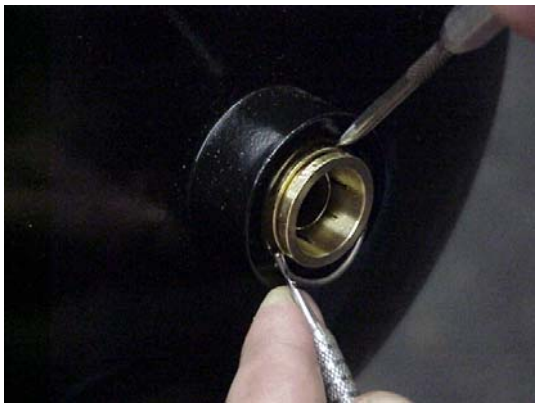

Fig. A

Fig. B

1. Make sure all air pressure is relieved from air system by opening drain valves and waiting for air to exhaust. Keep drain valves open while servicing is being done.
2. Remove tubing from fitting by depressing collet and pulling on tubing. If collet does not release easily, make sure all air pressure is relieved in the system and repeat.
3. Use small screwdriver or a sharp pick to hold one side of wire ring from spinning, and use sharp pick to remove wire ring from groove. (Fig. A)
4. Using a flat-head screwdriver, remove fitting from the bushing.
5. Visually inspect the inside of the bushing for debris. Wipe away any foreign matter with a clean rag.
6. Press new insert into the bushing by hand only. Hammering on top of fitting may damage the collet. Parts are pre-lubed. If additional lubrication is necessary, use only UCON # LB-550-X.
7. Insert snap ring into groove over top of fitting using a small flat-head screwdriver or sharp pick. (Fig. B) Make sure ring is fully seated before proceeding.
8. Make sure tubing is cut square to 5º. Insert tubing into fitting, making sure it is fully seated. Pull on tubing to make sure that the fitting is properly installed
9. Charge air system. Using soap water, check to make sure fitting is not leaking.
10. If fitting leaks, repeat the steps above as necessary. Make sure o-ring is not damaged, and that tubing is fully inserted into the fitting.