



**Brother's Equipment, Inc.**  
 Manufacturer of Ace Products  
 Toll Free: 800-578-8471  
 Facsimile: (216) 458-0330  
 sales@theACEadvantage.com

## Torque Requirements of Components - Ace Roll off Trailers

Hutchens H900 Single Point Suspension – Standard on Ace Roll off Trailers

**⚠ WARNING**

**SAFETY ALERT! (1) FOLLOW ALL TORQUE REQUIREMENTS. (2) DO NOT USE ANY COMPONENT WITH VISIBLY WORN OR DAMAGED THREADS. FAILURE TO FOLLOW THESE SAFETY ALERTS CAN LEAD TO LOSS OF VEHICLE CONTROL, PROPERTY DAMAGE, SERIOUS PERSONAL INJURY OR DEATH.**

**Hutchens Suspension Torque Requirements  
 900/440 Series ( Decal Part Number 16087-01 Rev. E )**

After an initial break in period, approximately 1000 miles, and at least every 4 months periodically thereafter, ALL bolts and nuts should be checked to insure that recommended torque values are being maintained.  
 Oiled torque values listed are for new fasteners with lubricated threads. It is recommended that new installations be performed with oiled fasteners. For dry threads which have been in service, use the higher torque values which are noted below.

|                    | OILED     | DRY       |
|--------------------|-----------|-----------|
| 1 1/8-12 UNF. .... | 670 lb-ft | 880 lb-ft |
| 1-14 UNF. ....     | 540 lb-ft | 730 lb-ft |
| 7/8-14 UNF. ....   | 500 lb-ft | 670 lb-ft |
| 3/4-16 UNF. ....   | 220 lb-ft | 300 lb-ft |
| 5/8-18 UNF. ....   | 130 lb-ft | 180 lb-ft |

Hutchens Industries, Inc., P.O. Box 1427, Springfield, Missouri 65801-1427 Toll Free 1 (800) 654-8824

Suspension Manufacturer states that nuts and bolts must be tightened after 1,000 miles and EVERY 160 days of the life of the suspension.

The above sticker is placed on driver side of all Ace Roll off Trailers with H900 Suspensions installed.

Failure to do so may result in equipment malfunction, injury, or death.



**Brother's Equipment, Inc.**  
 Manufacturer of Ace Products  
 Toll Free: 800-578-8471  
 Facsimile: (216) 458-0330  
 sales@theACEadvantage.com

## Cable Clip Clamps

| <b>⚠ WARNING</b>   |  |
|--|--|
| <ul style="list-style-type: none"> <li>• Failure to read, understand, and follow these instructions may cause death or serious injury.</li> <li>• Read and understand these instructions before using clips.</li> <li>• Match the same size clip to the same size wire rope.</li> <li>• Prepare wire rope end termination only as instructed.</li> <li>• Do not use with plastic coated wire rope.</li> <li>• Apply first load to test the assembly. This load should be of equal or greater weight than loads expected in use. Next, check and retighten nuts to recommended torque (See Table 1).</li> </ul> |  |

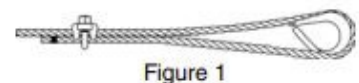


**NOTE: USER MUST RE -TIGHTEN CABLE CLIPS AFTER LOADING FIRST CONTAINER OF MAXIMUM WEIGHT BEING HAULED. FAILURE TO DO SO MAY RESULT IN CABLE SLIPPING THROUGH CLAMPS. ACE IS NOT LIABLE TO ANY INJURY OR DAMAGE IN RESULT OF FAILURE TO TIGHTEN.**

**Table 1.** (\* Ace Standard)

| Clip Size (in.) | Rope Size (in.) | Minimum No. of Clips | Amount of Rope to Turn Back in Inches | * Torque in Ft. Lbs. |
|-----------------|-----------------|----------------------|---------------------------------------|----------------------|
| 7/8" *          | 7/8" *          | 4*                   | 19*                                   | 225*                 |
| 1               | 1               | 5                    | 26                                    | 225                  |

Refer to Table 1 in following these instructions. Turn back specified amount of rope from thimble or loop. Apply first clip one base width from dead end of rope. Apply U-Bolt over dead end of wire rope – live end rests in saddle (Never saddle a dead horse!). Use torque wrench to tighten nuts evenly, alternate from one nut to the other until reaching the recommended torque. (See Figure 1)



2. When two clips are required, apply the second clip as near the loop or thimble as possible. Use torque wrench to tighten nuts evenly, alternating until reaching the recommended torque. When more than two clips are required, apply the second clip as near the loop or thimble as possible, turn nuts on second clip firmly, but do not tighten. (See Figure 2)



3. When three or more clips are required, space additional clips equally between first two – take up rope slack – use torque wrench to tighten nuts on each U-Bolt evenly, alternating from one nut to the other until reaching recommended torque.

