

Dartron

**Issuing Entity:**  
Dartron Industries, Inc

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**Bulletin #** SR-5K-001

**Release Date:** 2-20-2001

**Effective Date:** 3-1-2001

**Supercedes:**

**Completion Date:** July 4, 2001

Page 1 of 4

## SERVICE BULLETIN

Ride Manufacturer: Dartron Industries, Inc.

Affected Production Dates: 1998-1999

Ride Name: Cliff Hanger

Affected Serial #'s 806082-5K, 807121-5K,

810061-5K, 810282-5K, 811201-5K, 901011-5K,

902071-5K, 902221-5K, 903021-5K, 903272-5K,

905101-5K, 9060091-5K, 908311-5K, 909201-5K

Model #

### Abstract of Issue:

**Reason for release:** Dartron has determined that the two cylinders that raise and lower the car storage, storage racks on either the curb or drivers side could move at different speeds. If the rack operator continues the rack movement the rack could twist resulting in the rack rotation shaft being pulled out of the pillow block or the pillow block fracturing. Either situation could cause the cars to fall to the ground.

**Action to be taken:** A flow divider must be added for each carrack. Inspect to see if flow dividers have been installed in the hydraulic lines going to hydraulic cylinders of the passenger carrier storage racks. A kit containing all parts needed to add two flow divider valves is available from Dartron. Contact Steve Jones at (503) 362-2341.

**Detail of issue:** See attached pages 2 through 4

**Instructions:**

The flow divider kit should be installed on the Cliff Hanger when the ride is set up, or when the passenger carrier transport racks are in the down position. All Passenger carriers must be removed.

**Flow Divider Installation Instructions:**

**Step 1:** Drill holes through the gooseneck deck skin using the layout pattern as shown on Page 3 diagram A.

**Step 2:** Install two flow dividers with fittings as shown on Page 3 Diagram B.

**Step 3:** Make sure the passenger carrier transport racks are in the down position, all cylinders are fully extended and all passenger carriers are removed.

**Step 4** Identify the hose attached to the rod end of the driver side rear cylinder and follow it down to the bulkhead tee fitting under the gooseneck

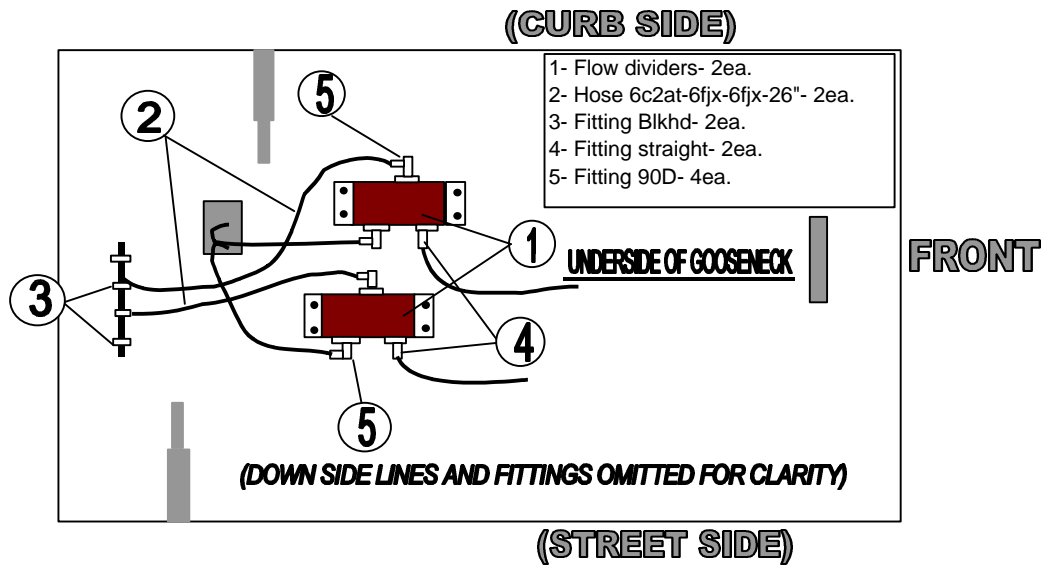
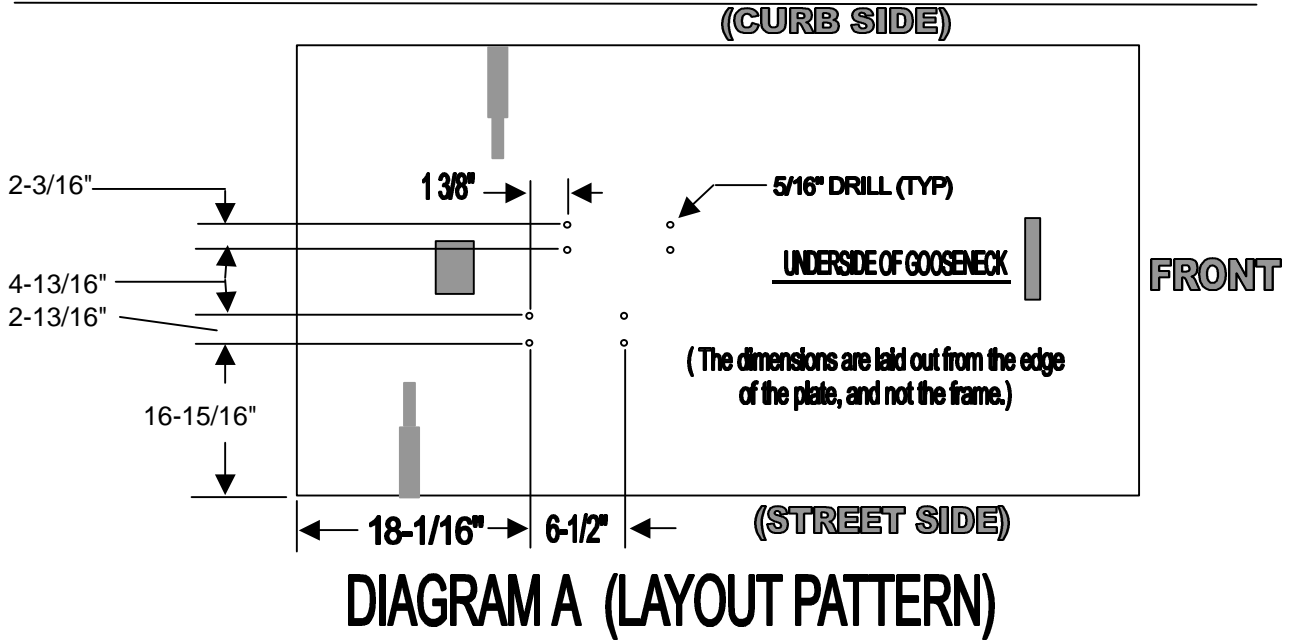
**Step 5:** Remove all three hoses from this bulkhead tee fitting and replace the tee in the trailer with the straight fitting under the gooseneck.

**Step 6** Extend this bulkhead fitting over to the center port of either one of the flow dividers with one of the hoses from the kit as shown on Page 3 Diagram B.

**Step 7:** Hook up the two hoses from the cylinders to the other side of the flow divider. The flow divider now takes the place of the tee that was removed. See Schematic on Page 4.

**Step 8:** Repeat steps 4-7 for the other side.

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**FLOW DIVIDER  
HYDRAULIC SCHEMATIC**

