

Dartron

Issuing Entity:
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Bulletin # SR-5K-003

Release Date: January 27, 2004

Effective Date: January 27, 2004

Supercedes: N/A

Completion Date: Before Operating

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SAFETY BULLETIN

Ride Manufacturer: Dartron Industries, Inc.

Affected Production Dates: 08/98 – 08/99

Ride Name: Cliff Hanger

Affected Serial #'s: 806081-5K, 807121-5K, 810061-5K,
810283-5K, 901011-5K, 902221-5K, 903021-5K,
903272-5K, 905101-5K

Abstract of Issue: As a result of an incident involving a Cliff Hanger ride in Florida Dartron is now aware that after a combination of events the Car Hanger Stem to Arch Assembly joint could fail. For this reason Dartron is requiring that all Cliff Hanger rides have a back up device that will support the car and its passengers in the event of a separation of the Arch Assembly from the Stem. Tests conducted by Dartron demonstrate that the factory-installed Arch Assembly to Car joint back up cable will safely suspend the car and its passengers in the event of a failure of the Stem to Arch Assembly joint. To identify the joint see Page 2 of this Bulletin and for more information on the factory installed cable see Page 3 of this Bulletin.

The factory-installed cable is an approved back up device for the Stem to Arch Assembly joint. No action is required for Cliff Hanger rides with a factory-installed cable.

The Cliff Hanger rides listed above have a different back up device for the Arch Assembly to Car joint and do not have factory-installed cables. The above listed Cliff Hanger rides must install the back up device described in this Bulletin as a back up for the Arch Assembly to Stem joint.

Reason for release: To ensure that the Cliff Hanger rides not equipped with a factory approved cable retrofit the Dartron approved back up device described herein.

Action to be taken:

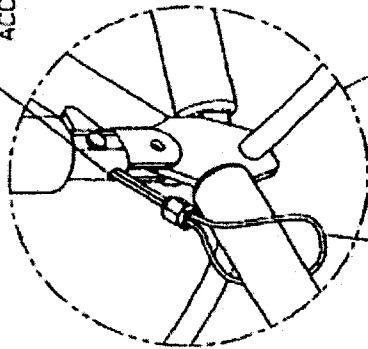
1. The retrofit back up device must be ordered from Dartron Industries.
2. The back up device consists of:
 - a) Arch Assembly to Stem strap.
 - b) Stem to Welded Pipe strap.
 - b) Cable that is inserted through the Arch Assembly and attached to the car. Cable does not enter the stem.
3. Install the Back Up device as shown on Page 2 of this Bulletin.

ITEM	QTY	DESCRIPTION	LENGTH	PRICE	COMMENTS	UNIT
8043-001-01	1	10 GA. SHEET X 2 1/2"	15 5/8"		FIBER	
8043-001-02	1	10 GA. SHEET X 3"	8 7/8"		FIBER	
8043-001-03	2	3/8" NC-16 GRABER B BRG TS				
8043-001-04	4	3/8" STAINLESS STEEL FLAT WASHER				
8043-001-05	2	3/8" NC-16 NUT				
8043-001-06	2	3/16" STAINLESS STED. AIRCRAFT CABLE				
8043-001-07	2	3/16" VIBRO SHOCK CLAMP				
8043-001-08						

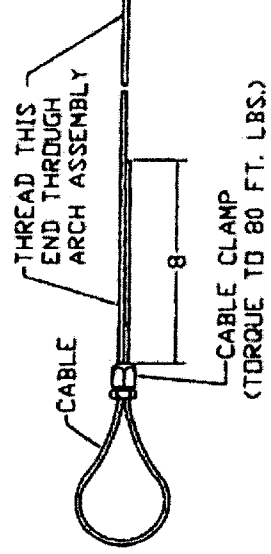
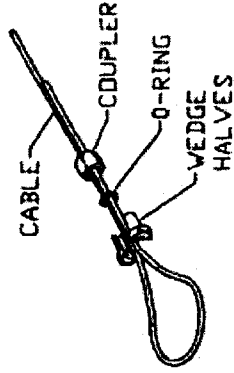
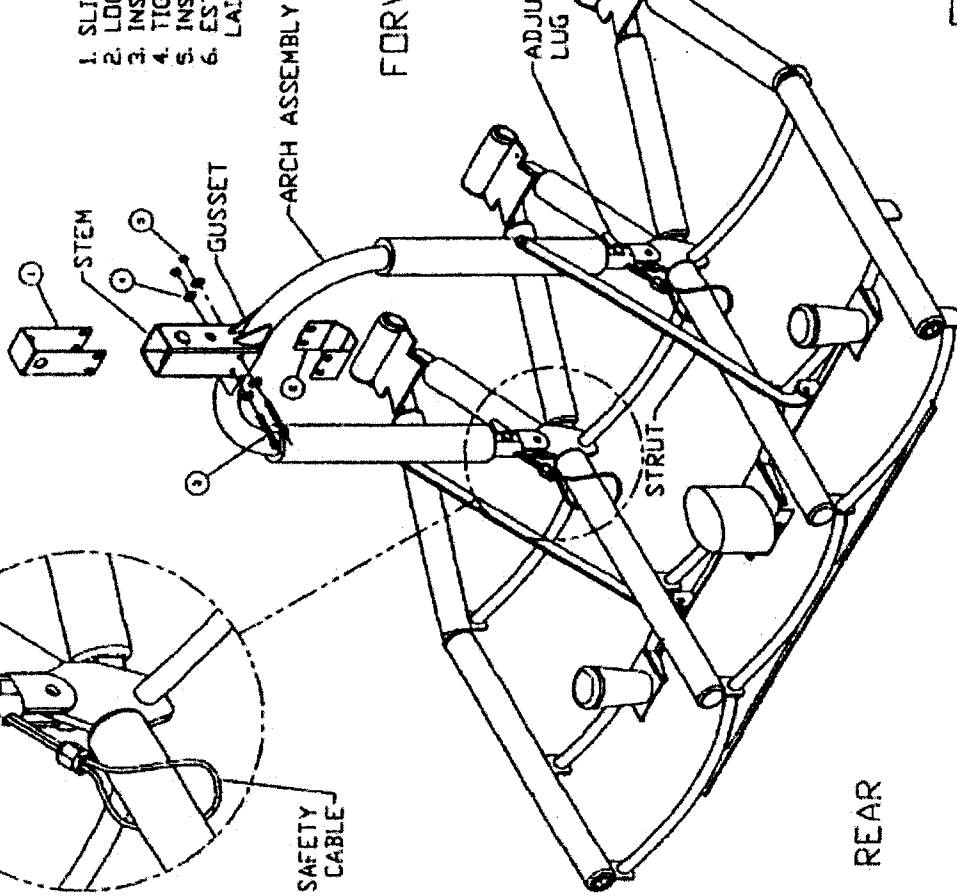
INSTALLATION INSTRUCTIONS

1. SLIDE PART # 2 UP UNTIL IT TOUCHES THE ROUND TUBE.
2. LOCATE AND DRILL HOLES IN THE STEM 13/32 DIA THRU.
3. INSTALL PARTS #1 THROUGH #5 AS SHOWN.
4. TIGHTEN NUTS #5 180 DEGREES PAST SNUG.
5. INSTALL THE CABLE THROUGH THE ARCH AS SHOWN.
6. ESTABLISH THE FINAL LENGTH OF THE CABLE WITH THE ARCH LAID OVER FLAT. (CRACKED POSITION).

DRILL & DEBUR 1/2" HOLE FOR CABLE ACCESS.



SAFETY CABLE

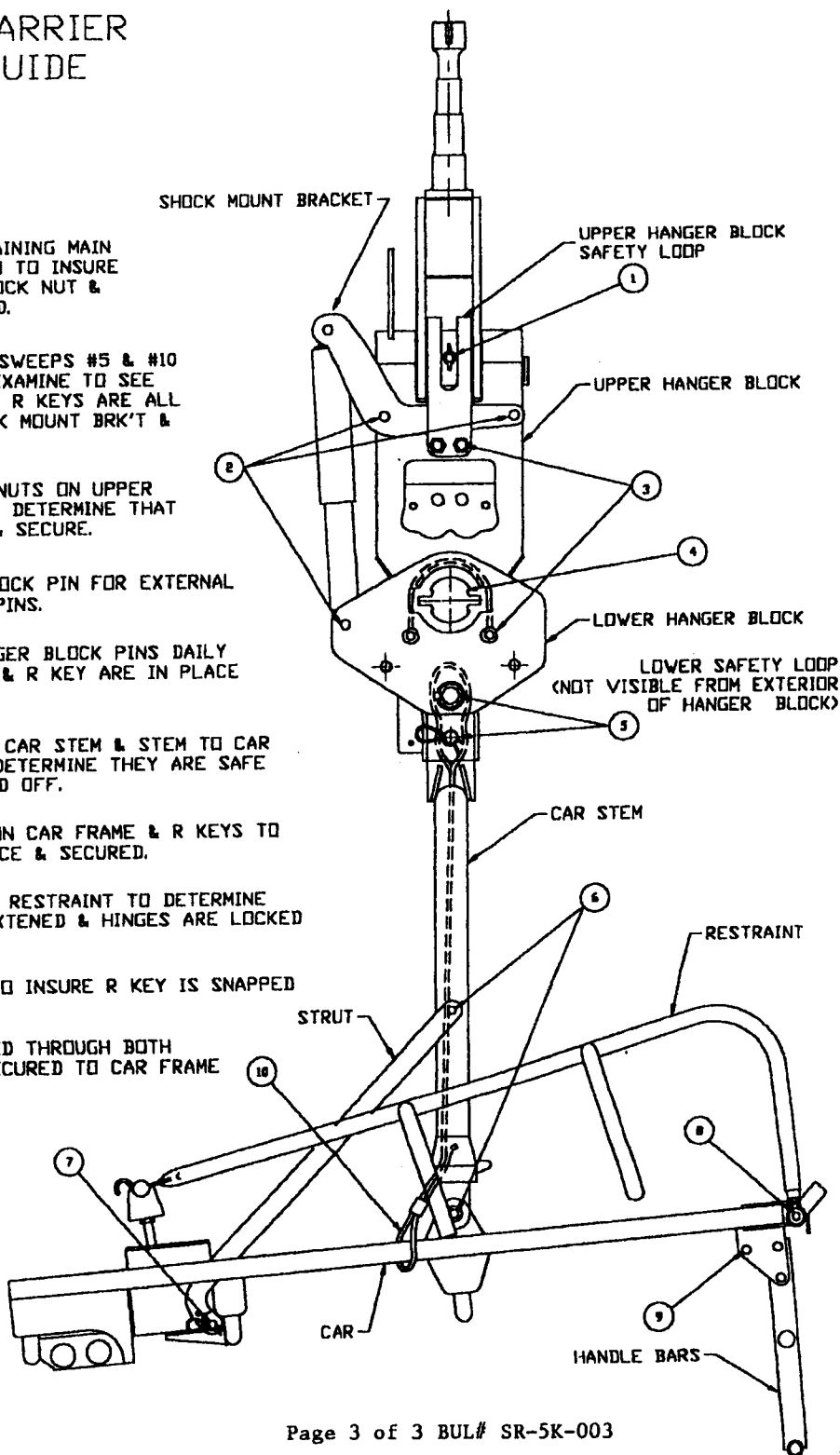


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DARTRON INC., INC.		PASSENGER CARRIER		E/A 1 0	
DATE	REV	DATE	REV	DATE	REV
10/1/68	1	10/1/68	1	10/1/68	1
DARTRON		DARTRON		SR-5K-003	

PASSENGER CARRIER INSPECTION GUIDE

- 1) INSPECT FASTENERS RETAINING MAIN HANGER BLOCK PIVOT PIN TO INSURE 1/2" BOLT JAM NUT, NYLOCK NUT & COTTER PIN IS INSTALLED.
- 2) SHOCK MOUNT BRK'TS ON SWEEPS #5 & #10 HAVE REMOVABLE PINS, EXAMINE TO SEE THAT PINS ARE SECURE & R KEYS ARE ALL INSTALLED IN BOTH SHOCK MOUNT BRK'T & LOWER HANGER BLOCK.
- 3) CHECK BOLTS & NYLOCK NUTS ON UPPER & LOWER SAFTY LOOP TO DETERMINE THAT FASTENERS ARE INTACT & SECURE.
- 4) CHECK LOWER HANGER BLOCK PIN FOR EXTERNAL RETAINING RING & ROLL PINS.
- 5) CHECK CAR STEM TO HANGER BLOCK PINS DAILY VERIFY THAT LYNCH PIN & R KEY ARE IN PLACE & PINS ARE SECURE.
- 6) CHECK MODIFIED BOLT IN CAR STEM & STEM TO CAR BOLT & NYLOCK NUT TO DETERMINE THEY ARE SAFE & NUTS HAVE NOT BACKED OFF.
- 7) CHECK CAR STRUT PINS ON CAR FRAME & R KEYS TO INSURE THEY ARE IN PLACE & SECURED.
- 8) EXAMINE PIVOT POINT ON RESTRAINT TO DETERMINE THAT ALL SHAFTS ARE EXTENDED & HINGES ARE LOCKED IN PLACE.
- 9) CHECK CAR HANDLE PIN TO INSURE R KEY IS SNAPPED IN PLACE.
- 10) SAFTY CABLE IS THREADED THROUGH BOTH SIDES OF CAR STEM & SECURED TO CAR FRAME



AFTER 90 DE		DARTRON		CARRIER INSPECTION GUIDE		REV 02-98	
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