



CHANCE RIDES MANUFACTURING, INC.

CHANCE RIDES MANUFACTURING, INC.
10000 W. 10TH AVENUE
DENVER, CO 80202
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WWW.CHANCERIDES.COM

Bulletin No: B414CRM102-0

Release Date: September 23, 2002

Effective Date: September 23, 2002

Supersedes: N/A

Completion Date: Immediately

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Ride Manufacturer: CHANCE RIDES, INC.

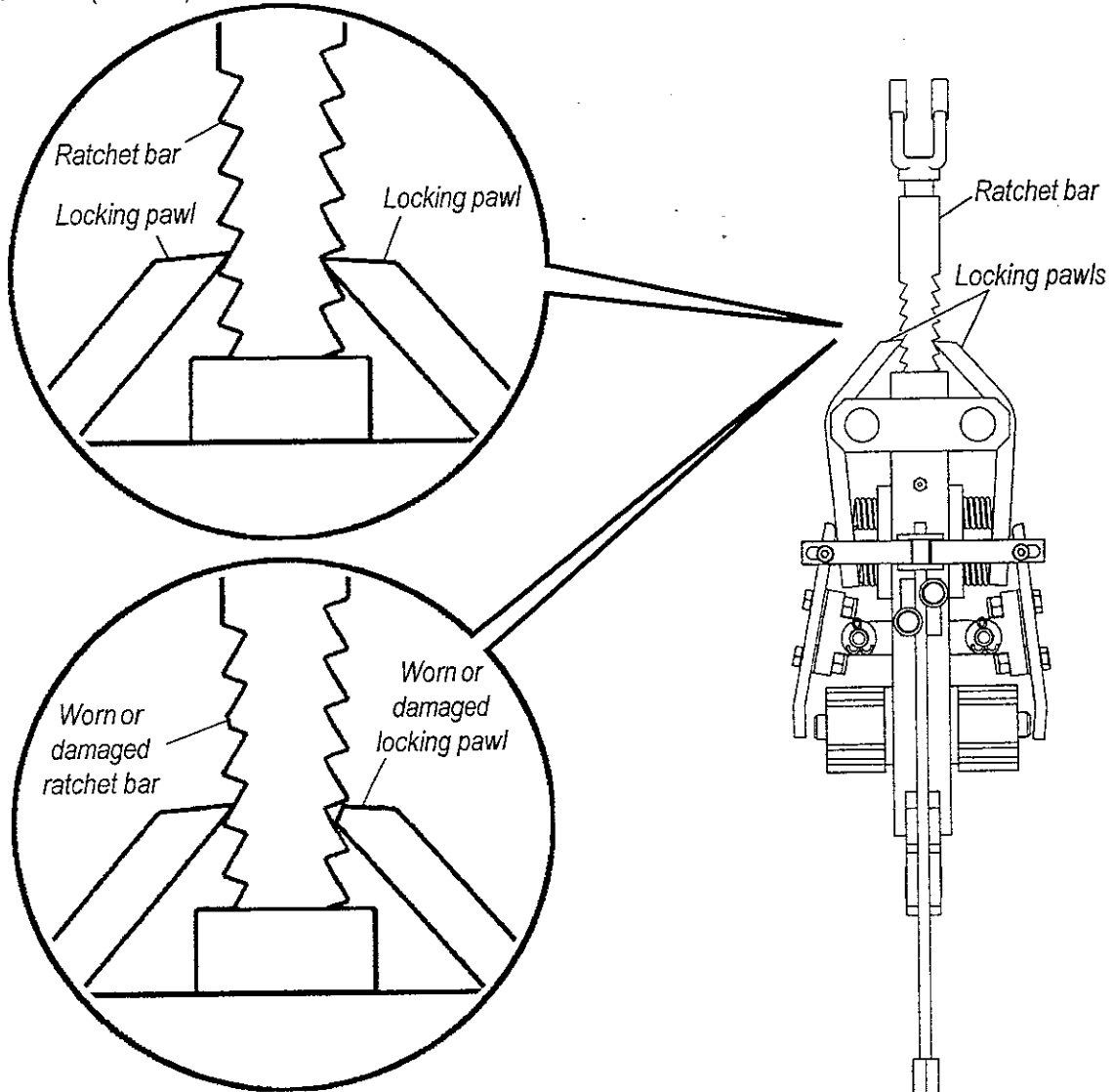
Affected Production Dates: All

Ride Name: INVERTER (Portable Model)
INVERTER (Park Model)
DOUBLE INVERTER

Affected Serial Nos.: All units

Model No.: 414

Detail of Issue (continued):





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Ride Manufacturer: CHANCE RIDES, INC. Affected Production Dates: All

Ride Name: INVERTER (Portable Model) Affected Serial Nos.: All units
INVERTER (Park Model)
DOUBLE INVERTER

Model No.: 414

Detail of Issue (continued):

Inspection of Secondary Restraint Bar (T-Bar) Locking Mechanisms

The locking mechanisms for the secondary restraint bars (T-bars) must be kept in good working condition at all times. In addition to daily and weekly checks, perform the following inspection immediately. Perform the same inspection annually thereafter.

Replace any part which is worn, damaged or not working properly. An illustrated parts breakdown is provided on the following pages of this bulletin.

1. Push the secondary restraint bar (T-bar) completely down. This will fully extend the ratchet bar for inspection of all teeth.
2. Visually inspect the teeth on the ratchet bar for wear or damage. Look for the following:
 - Wear or damage on the points of the teeth.
 - Chipped corners on the teeth.
 - The profile of all teeth must be consistent. Note that the teeth on the ratchet bar are offset from one side to another, allowing the locking pawls to engage on one side at a time.
3. Visually inspect the locking pawls for the following:
 - Wear or damage on the chamfered end of the locking pawls.
 - Blunt, uneven or chipped edges on the chamfered end.
 - The locking pawl must engage the ratchet bar as shown, making contact across the full width of the teeth.



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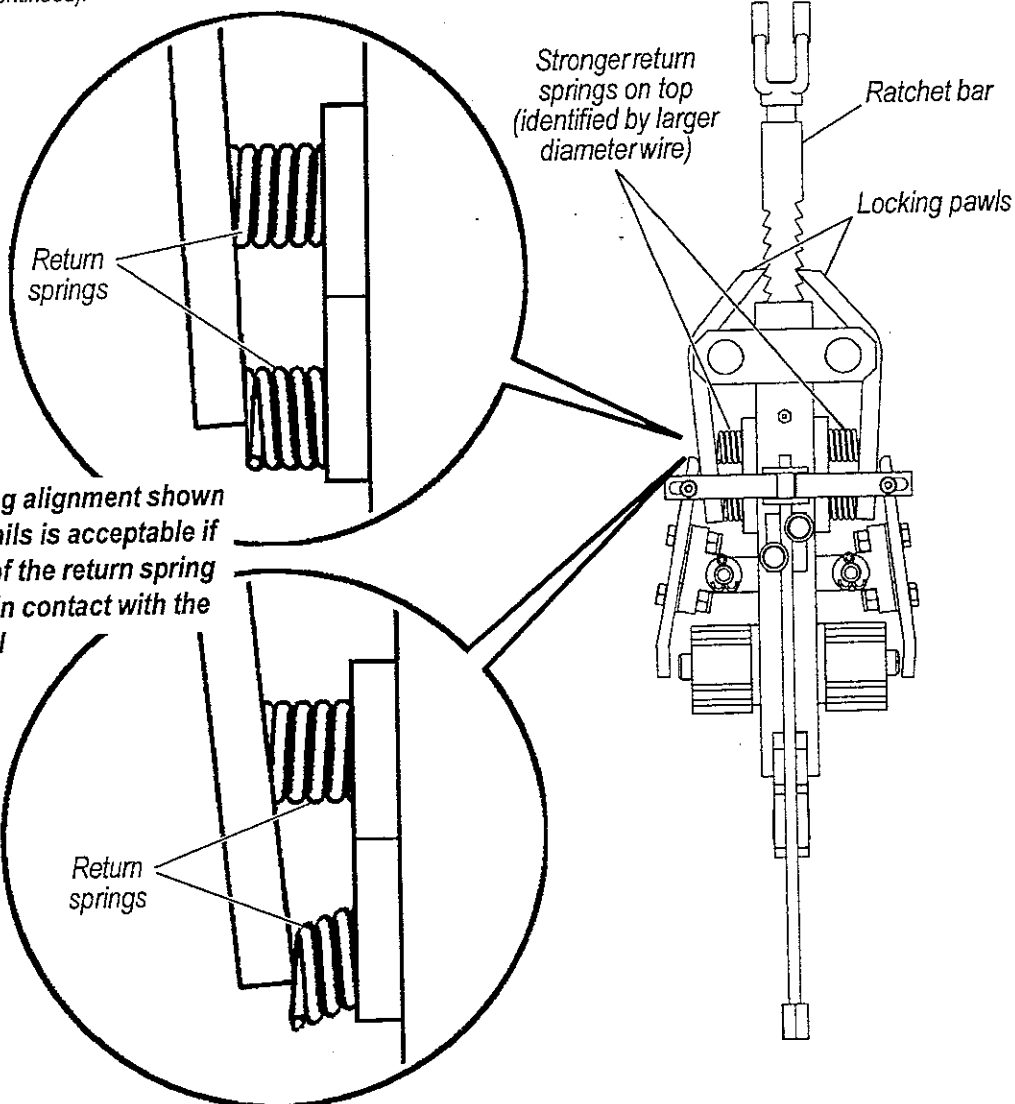
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Detail of Issue (continued):



Return spring alignment shown in these details is acceptable if at least 1/2 of the return spring diameter is in contact with the locking pawl



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Detail of issue (continued):

4. Check for broken or loose return springs. Note that there are two different springs installed on each side. The stronger springs, identified by larger wire diameter, must be installed at the top of the assembly, as shown in the illustration on page 4 of this bulletin.
5. Check the return springs for proper alignment between the locking pawl and the spring pocket as shown. Alignment is acceptable only if at least 1/2 of the diameter of the bottom return spring is in contact with the locking pawl.
6. Check the operation of each secondary restraint bar latch using the following procedure:
 - With air pressure removed from the ratchet release cylinders, have an assistant push the secondary restraint bar down slowly. **KEEP FINGERS AND HANDS AWAY FROM ALL MOVING PARTS AS THE BAR IS LOWERED.**
 - As the ratchet bar extends, observe the locking pawls as they alternately engage the ratchet bar teeth on one side, then the other. The locking pawls must engage completely with the teeth in the ratchet bar.
 - With air pressure applied, the pawls must retract fully and clear the teeth on the ratchet bar.



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DOUBLE INVERTER

Model No.: 414

Detail of Issue (continued):

WEEKLY INSPECTION of Secondary Restraint Bar (T-Bar) Locking Mechanisms

Perform the following inspection weekly.

Replace any part which is worn, damaged or not working properly. An illustrated parts breakdown is provided on the following pages of this bulletin.

1. Visually inspect the locking pawls and the teeth on the ratchet bar for wear or damage. The chamfered end on each locking pawl must engage completely with the teeth in the ratchet bar.
2. Check the return springs for condition and correct operation.
 - Look for broken or loose return springs.
 - Make sure each return spring is properly aligned and seated securely between the locking pawl and the spring pocket.
3. All pins and fasteners must be in good condition and properly installed.
4. Inspect the mounting lugs and clevises for damage. All fasteners must be correctly installed.
5. Check the air pressure settings for the ratchet locks as described in the INVERTER Service Manual.



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Detail of Issue (continued):

DAILY INSPECTION of Secondary Restraint Bar (T-Bar) Locking Mechanisms

The following points must be included as part of the daily pre-operational inspection.

Replace any part which is worn, damaged or not working properly. An illustrated parts breakdown is provided on the following pages of this bulletin.

1. Visually inspect the secondary restraint bars (T-bars) for loose, damaged or missing parts.
2. Test the operation of each secondary restraint bar (T-bar). Pull up on each bar to check that the locking mechanisms are engaged.
3. Check the operation of the passenger restraint interlock system using the procedure described in the *INVERTER Service Manual* ("Passenger Restraint System Operational Check") and in Chance Rides, Inc. Service Bulletin B414R1225-0.
4. Check the operation of the secondary restraint bar (T-bar) interlock with the step. Make sure that all six slide bars work smoothly both directions and the springs return them completely to the out position.

Chance Rides Manufacturing, Inc. issues notifications for the benefit of owners of amusement rides manufactured by Chance Rides Manufacturing, Inc. As a service to the industry, and in the interest of employee and public safety, Chance Rides Manufacturing, Inc. also issues notifications for the benefit of owners of amusement ride equipment for which the manufacturer no longer exists, such as the Allan Herschell Company, Chance Manufacturing Co., Inc., Chance Rides, Inc., etc. In doing so, Chance Rides Manufacturing, Inc. does not assume liability for losses associated with amusement ride equipment built by manufacturers other than Chance Rides Manufacturing, Inc.



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