

NAFLIC

National Association For Leisure Industry Certification

Standards & Related Documents Committee

TECHNICAL BULLETIN — June 2016

406. Larson Flying Scooters

We are in receipt of a number of service bulletins from Larson International Inc. (see accompanying documents) relating to the company's Flying Scooters rides.

The first of these relates to a potential issue with the E-stop button and a suggested modification to alleviate this. The committee would remind operators and controllers that if the recommended modification is carried out it is a safety critical modification so would require a pre-use inspection.

The second bulletin relates to the sweep assembly vertical tubes. Cracks have been found in these locations and it is suggested that these areas should be examined during daily and annual inspections of the device.

The third bulletin relates to rider and weather restrictions on the Flying Scooter. These have been refined over time based on experience and input from operators. Larson International has been asked to provide updated restrictions so that operators with multiple Flying Scooters rides can apply the same restrictions to all devices. The bulletin specifically relates to operational procedures, rider restrictions and signage.

The final bulletin concerns corrosion found on the inside of the ride vehicles. It is suggested these are inspected annually and that drain holes may help prevent future water entrapment.

The information contained within is that of the manufacturer and not NAFLIC. When following the advice from the manufacturer, you are reminded of your duties and responsibilities under HSG175 regarding modifications.



Issuing Entity:
Larson International Inc.
P.O. Box 638
Plainview, TX 79073-0638
U.S.A.
Phone 806-293-1353
Fax 806-293-5215
www.larsonintl.com

Bulletin No.: L16-001
Release Date: 3/16/16
Effective Date: Immediately
Supercedes: N/A
Completion Date: N/A
Page: 1 of 2

SERVICE BULLETIN

Ride Manufacturer: Larson International Inc. **Affected Production Dates:** All
Ride Name: FLYING SCOOTERS **Affected Serial Nos.:** 14-26, 30

Abstract Of Issue: Install a set of normally closed contacts in the E-stop button.

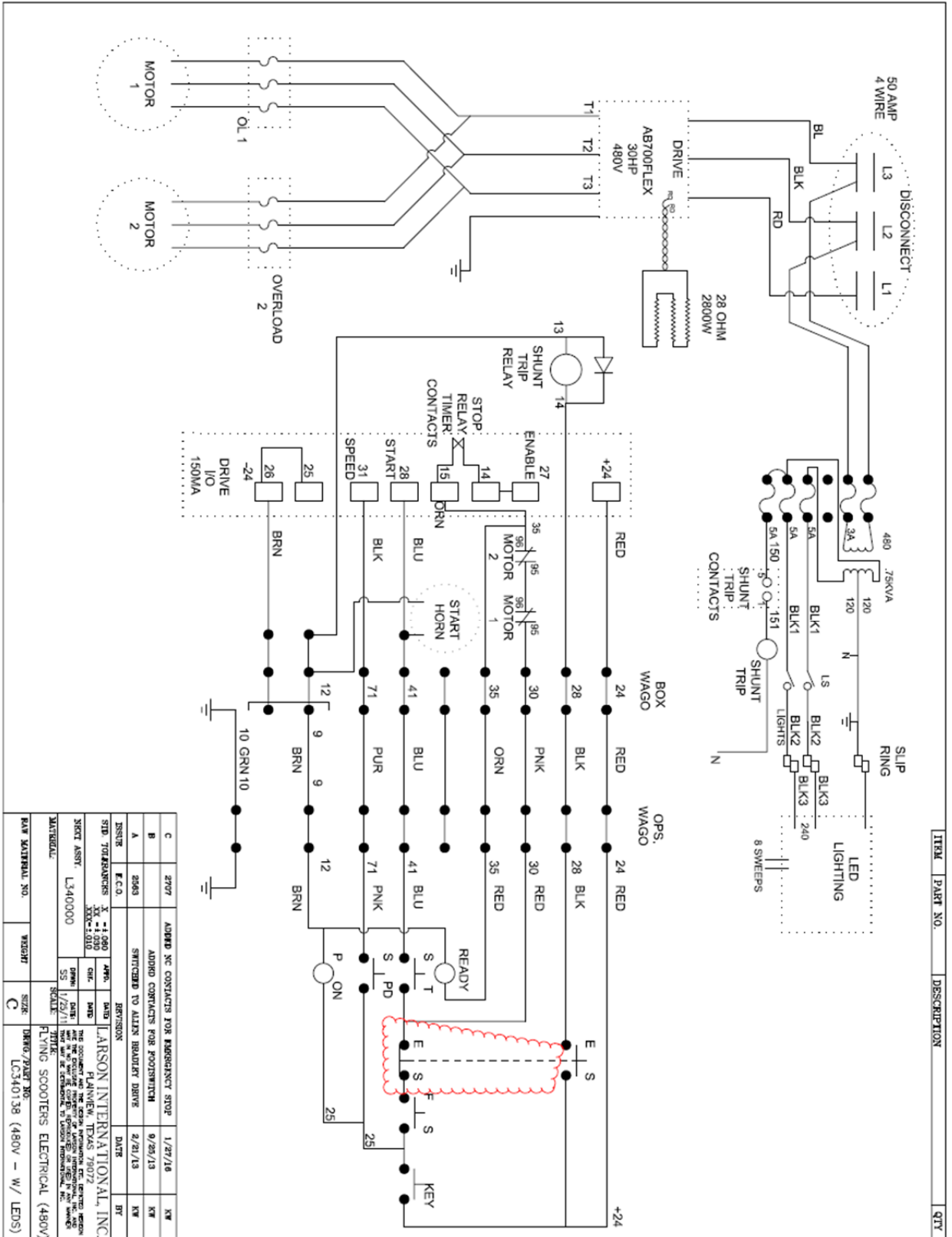
Reason for Release: A failure of the 120V power supply circuit can cause the E-stop to not stop the ride when pressed.

Action To Be Taken: Install a set of normally closed contacts in the E-stop wired as shown on page 2.

Detail Of Issue:

Revised Electrical Schematic on page 2.

Larson International Inc. issues notifications for the benefit of owners of amusement rides manufactured by Larson International, Inc. As a service to the industry, and in the interest of employee and public safety, Larson International, Inc. also issues notifications for the benefit of owners of amusement ride equipment for which the manufacturer no longer exists such as LMC, Inc. and Hi-Roller Company. In doing so, Larson International, Inc. does not assume liability for losses associated with amusement ride equipment built by manufacturers other than Larson International, Inc.





Issuing Entity:
Larson International Inc.
P.O. Box 638
Plainview, TX 79073-0638
U.S.A.
Phone 806-293-1353
Fax 806-293-5215
www.larsonintl.com

Bulletin No.: L16-002
Release Date: 3/16/16
Effective Date: Immediately
Supercedes: N/A
Completion Date: N/A
Page: 1 of 2

SERVICE BULLETIN

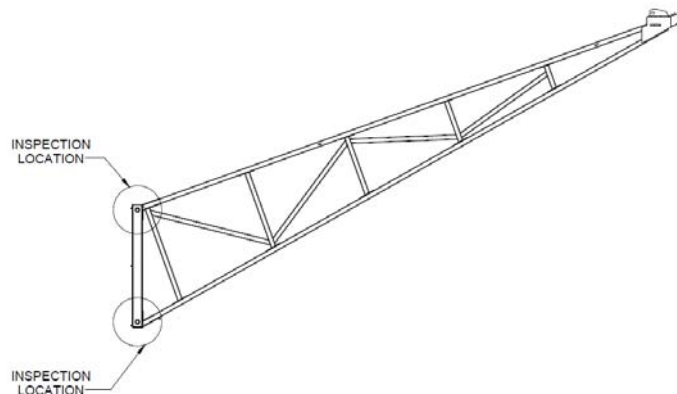
Ride Manufacturer: Larson International Inc. **Affected Production Dates:** All
Ride Name: FLYING SCOOTERS **Affected Serial Nos.:** 7-25

Abstract Of Issue: Inspection of the sweep assembly vertical tubes (L340000 item 1).

Reason for Release: Cracks have been found in these locations. These specific areas need to be examined during your daily and annual inspections.

Action To Be Taken: Visually inspect the vertical tubes of all sweeps for cracks. Any visual indications shall also have NDT MT performed to determine the crack length. Contact Larson International to determine if the sweep can be repaired. Add this service bulletin to the ride manual as detail for the daily inspection and add an annual NDT MT inspection of these areas.

Detail Of Issue:



Larson International Inc. issues notifications for the benefit of owners of amusement rides manufactured by Larson International, Inc. As a service to the industry, and in the interest of employee and public safety, Larson International, Inc. also issues notifications for the benefit of owners of amusement ride equipment for which the manufacturer no longer exists such as LMC, Inc. and Hi-Roller Company. In doing so, Larson International, Inc. does not assume liability for losses associated with amusement ride equipment built by manufacturers other than Larson International, Inc.





Issuing Entity:
Larson International Inc.
P.O. Box 638
Plainview, TX 79073-0638
U.S.A.
Phone 806-293-1353
Fax 806-293-5215
www.larsonintl.com

Bulletin No.: L16-003
Release Date: 3/16/16
Effective Date: Immediately
Supersedes: N/A
Completion Date: N/A
Page: 1 of 3

NOTIFICATION

Ride Manufacturer: Larson International Inc. **Affected Production Dates:** All
Ride Name: FLYING SCOOTERS **Affected Serial Nos.:** 1-25

Abstract Of Issue: Rider and weather restrictions for the Flying Scooters.

Reason for Release: Rider and weather restrictions have been refined over time based on experience and operator input. Larson International has been asked to provide updated restrictions so that operators with multiple Flying Scooters rides can apply the same restrictions to all Flying Scooters.

Action To Be Taken: Update the rider and weather restrictions in operational procedures and signage. The original rider and weather restrictions provided with the ride can still be used until it is convenient to change signage.

Detail Of Issue: Updated rider and weather restrictions on pages 2 and 3.

Larson International Inc. issues notifications for the benefit of owners of amusement rides manufactured by Larson International, Inc. As a service to the industry, and in the interest of employee and public safety, Larson International, Inc. also issues notifications for the benefit of owners of amusement ride equipment for which the manufacturer no longer exists such as LMC, Inc. and Hi-Roller Company. In doing so, Larson International, Inc. does not assume liability for losses associated with amusement ride equipment built by manufacturers other than Larson International, Inc.

OPERATING PERSONNEL REQUIREMENTS

The Flying Scooters™ is designed to operate with a minimum of one (1) operator. Two (2) operators may be used during high traffic periods. All operating personnel must be thoroughly trained and have full knowledge of the proper use and function of the ride.

PASSENGER AND WEATHER RESTRICTIONS

THE FOLLOWING RESTRICTIONS ARE FOR THE SAFETY OF ALL PATRONS.



ATTENTION: A sign must be posted in full view of all riders prior to boarding the ride which lists the following minimum passenger restrictions.

PASSENGER RESTRICTIONS

1. No one under 36" tall will be allowed to ride. Passengers must be 44" tall to be allowed to ride without a supervising companion.
2. Persons under the influence of drugs or alcohol are not allowed to ride.
3. Pregnant women should view the ride for potential risks before riding.
4. No food, drink or smoking on the ride.
5. Patrons must keep hands and feet inside the vehicles and remain seated at all times.
6. Each rider must demonstrate appropriate behavior and a willingness and ability to participate and follow rider requirements. Appropriate behavior includes, but is not limited to maintaining proper riding position, attention and compliance to safety instructions, proper use of all ride safety equipment and willingness to participate independently or with the assistance of a supervising companion.
7. Riders must possess the physical ability to maintain an upright seated position during the dynamic conditions of the ride. Lower extremity amputations may render the seat belt restraint ineffective and must be evaluated by the ride operator. At a minimum, the patron shall have one full leg (prosthetic may be acceptable if attachment security can be verified by the operator) and the other amputation is below the knee. Casts are permitted as long as they fit completely inside the ride vehicle and permit secure and close-fitting adjustment of the restraint.

8. Riders using a wheelchair must transfer from the wheelchair onto the ride.

WEATHER RESTRICTIONS

1. The Flying Scooters ride dynamic is affected by both wind and passenger flying ability. If the operator observes the rear suspension cable on the vehicle going to a slack position and popping repeatedly the operator is advised to bring the ride to the stop position, switch to Low Speed and continue to operate. If this condition continues to exist in Low Speed, then operation of the ride should be stopped until there is less wind. In no case should the ride be operated in winds greater than 35 mph.
2. If lightning is present in the area, all patrons and personnel must evacuate the ride immediately.



Issuing Entity:
Larson International Inc.
P.O. Box 638
Plainview, TX 79073-0638
U.S.A.
Phone 806-293-1353
Fax 806-293-5215
www.larsonintl.com

Bulletin No.: L16-004
Release Date: 3/16/16
Effective Date: Immediately
Supercedes: N/A
Completion Date: N/A
Page: 1 of 2

NOTIFICATION

Ride Manufacturer: Larson International Inc. **Affected Production Dates:** All
Ride Name: FLYING SCOOTERS **Affected Serial Nos.:** 1-26,30

Abstract Of Issue: Monitor and address potential corrosion in the ride vehicles.

Reason for Release: Corrosion has been found on the inside of the ride vehicles.

Action To Be Taken: Annual inspection of the inside of the ride vehicles and address corrosion as necessary to prevent reduction of steel thickness. Adding drain holes in the rear corners of each vehicle may help prevent future water entrapment (see drawing page 2).

Detail Of Issue:

Vehicle drain holes drawing on page 2.



Larson International Inc. issues notifications for the benefit of owners of amusement rides manufactured by Larson International, Inc. As a service to the industry, and in the interest of employee and public safety, Larson International, Inc. also issues notifications for the benefit of owners of amusement ride equipment for which the manufacturer no longer exists such as LMC, Inc. and Hi-Roller Company. In doing so, Larson International, Inc. does not assume liability for losses associated with amusement ride equipment built by manufacturers other than Larson International, Inc.

