



RECEIVED

2007 JUNE 11 P 2:30

DEFECTS INVESTIGATION  
RECALL MGMT DIV.

06/11/07 11:30:00

06/11/07 11:30:00

8 June, 2007

George Person  
Head - Recall Management Division  
US DOT – National Highway Traffic Safety Administration  
Office of Defects Investigation (NVS-215)  
400 Seventh St. S.W.  
Washington, DC 20590

**07V-268**  
**(18 pages)**

Subject: **Safety Recall – Steering U-Joint Assembly - New Flyer Part Number 8112157.**

Dear Mr. Person:

This letter is written to inform you of New Flyer Industries' intention to recall a universal joint (U-Joint) assembly which is incorporated into the steering system of High Floor model buses. The U-Joints were assembled by Buffalo Industries of Winnipeg, from available Dana Spicer components, and sold to New Flyer for installation on vehicles between 1991 and 2007.

The defect was determined after production as a result of an in-service failure. The defect consists of a potential for premature wear of the splines which attach the U-Joint between the steering column and the transfer gearbox. Excessive wear of the splines due to insufficient spline engagement, could cause a failure of the steering system resulting in a crash, injury or death.

Post failure examination, and testing of the subject U-Joints indicate that they were not manufactured to the required specifications and tolerances designated by New Flyer. A replacement component assembled by a different manufacture which does meet the required specifications is available as a replacement part. This replacement part is the only replacement part ever supplied by our after sales parts department.

The correction involves the inspection of the steering components by owners to determine if the suspect U-Joint is installed, and if found, replace with a known good unit.

The recall population was based on a "where used" inquiry to our engineering database. This component is only used on our high floor bus models, and has been in use since 1991. All high floor buses manufactured since 1991 have been included in the recall unless they have already been determined by the owners to be retired or scrapped.

Not all of the vehicles to be recalled will have the subject U-Joint, as they may have been replaced over time as a result of normal 6000 mile preventative maintenance inspections.

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Winnipeg Facility**

711 Kernaghan Avenue  
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Ph: (204) 224-1251  
F: (204) 224-0551

E: bussales@newflyer.com

**Customer  
Services**

25 DeBaets Street  
Winnipeg, Manitoba  
R2J 4G5 Canada

Ph: (204) 982-8400

**New Jersey Service  
Support Center**

808 Garfield Avenue  
Jersey City, New Jersey  
07305-4423 USA

Ph: (201) 369-1200  
F: (201) 369-0345

**New Product  
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Winnipeg, Manitoba  
R2J 4B9 Canada

Ph: (204) 982-8413  
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**Crookston  
Facility**

214 5th Avenue SW  
Crookston, Minnesota  
56716 USA

Ph: (218) 281-5752  
F: (218) 281-5672

**St. Cloud  
Facility**

6200 Glenn Carlson Drive  
St Cloud, Minnesota  
56301 USA

Ph: (320) 203-0576  
F: (320) 203-0584

[www.newflyer.com](http://www.newflyer.com)

New Flyer will contact the customers who purchased these buses with parts and instructions on how to complete this recall (see sample letters attached) based on the age of the vehicle. Owners of vehicles manufactured prior to 1999 will be given repair instructions only. Owners of vehicles manufactured after 1998 will receive instructions and also will be offered parts and labor to complete the repair.

New Flyer is filing the appropriate 573 report (see attached) and will manage all quarterly reporting for this recall.

If you have any further questions please contact me.

Sincerely,

  
Kerry Legg  
Safety & Compliance Manager  
Customer Services Head Office

cc: H. Peper, C. Murray, A. Farrant, D. Bean, S. Halbesma, T. Sutherland

Attachments: 573 Defect Report,  
Sample Letters to Customer,  
Draft Repair Instruction – ITS3306

Safety Defect and Noncompliance Report Guide for Vehicles  
**PART 573 Defect and Noncompliance Report**<sup>1</sup>

On 1 June, 2007, New Flyer Industries Canada ULC [MFR] decided that a defect which relates to motor vehicle safety exists in the motor vehicles listed below, and is furnishing notification to the National Highway Traffic Safety Administration in accordance with 49 CFR Part 573 Defect and Noncompliance Reports.

Date this report was prepared: 8 June 2007

Furnish the manufacturer's identification code for this recall (if applicable): N/A

1. Identify the full corporate name of the fabricating manufacturer of the vehicle being recalled. If the recalled vehicle is imported, provide the name and mailing address of the designated agent as prescribed by 49 U.S.C. §30164.

New Flyer Industries Canada ULC  
25 DeBates St.,  
Winnipeg, MB Canada  
R2J 4G5

Identify the corporate official, by name and title, whom the agency should contact with respect to this recall.

Mr. Kerry Legg  
Safety & Compliance Manager

Telephone Number: (204) 934-4876

Fax No.: (204) 224-0248

Name and Title of Person who prepared this report.

Same as above.

Signed:



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<sup>1</sup>Each manufacturer must furnish a report, to the Associate Administrator for Safety Assurance, for each defect or noncompliance condition which relates to motor vehicle safety.

**I. Identify the Vehicle Models Involved in the Recall**

**2. Identify the Vehicles Involved in the Recall, for each make and model or applicable vehicle line (provide illustrations or photographs as necessary to describe the vehicle), provide:**

**Make(s):** New Flyer **Model Years Involved:** 1996 **Model(s):** D35HF

**Production Dates: Beginning:** 1996 **Ending:** 1996

**VIN Range: Beginning:** 016317 **Ending:** 016352

**Vehicle Type:** Heavy Duty Transit Bus **Body style:** Diesel Thirty Five Foot High Floor

**Descriptive information which characterizes/distinguishes the recalled vehicles from those model vehicles not included in the recall:** Model Vehicle incorporates New Flyer Part Number 8112157 Universal Joint

**Make(s):** New Flyer **Model Years Involved:** 1994 – 2000 **Model(s):** C40LF

**Production Dates: Beginning:** 1994 **Ending:** 2000

**VIN Range: Beginning:** 015399 **Ending:** 015402

**VIN Range: Beginning:** 015977 **Ending:** 016073

**VIN Range: Beginning:** 016753 **Ending:** 016771

**VIN Range: Beginning:** 017655 **Ending:** 017679

**VIN Range: Beginning:** 019297

**VIN Range: Beginning:** 020050 **Ending:** 020271

**Vehicle Type:** Heavy Duty Transit Bus **Body style:** Compressed Natural Gas Forty Foot High Floor

**Descriptive information which characterizes/distinguishes the recalled vehicles from those model vehicles not included in the recall:** Model Vehicle incorporates New Flyer Part Number 8112157 Universal Joint

**Make(s):** New Flyer **Model Years Involved:** 1992 –1994 **Model(s):** D40HF

**Production Dates: Beginning:** 1992 **Ending:** 1994

**VIN Range: Beginning:** 014468 **Ending:** 014527

**VIN Range: Beginning:** 014596 **Ending:** 014625

**VIN Range: Beginning:** 014791 **Ending:** 014830

**VIN Range: Beginning:** 015042 **Ending:** 015116

**VIN Range: Beginning:** 015180 **Ending:** 015232

**VIN Range: Beginning:** 015403 **Ending:** 015475

**Vehicle Type:** Heavy Duty Transit Bus **Body style:** Diesel Forty Foot High Floor

**Descriptive information which characterizes/distinguishes the recalled vehicles from those model vehicles not included in the recall:** Model Vehicle incorporates New Flyer Part Number 8112157 Universal Joint

**Make(s):** New Flyer **Model Years Involved:** 1995 **Model(s):** L40HF

**Production Dates: Beginning:** 1995 **Ending:** 1995

**VIN Range: Beginning:** 015506 **Ending:** 015540

**Vehicle Type:** Heavy Duty Transit Bus **Body style:** Liquid Natural Gas Forty Foot High Floor

**Descriptive information which characterizes/distinguishes the recalled vehicles from those model vehicles not included in the recall:** Model Vehicle incorporates New Flyer Part Number 8112157 Universal Joint

**Make(s):** New Flyer **Model Years Involved:** 1991-2007 **Model(s):** D60HF

**Production Dates: Beginning:** 1991 **Ending:** 2007

**VIN Range: Beginning:** 014080 **Ending:** 014083

**VIN Range: Beginning:** 014929 **Ending:** 014978

**VIN Range: Beginning:** 015233 **Ending:** 015257

**VIN Range: Beginning:** 015658 **Ending:** 015665

**VIN Range: Beginning:** 015833 **Ending:** 015856

**VIN Range: Beginning:** 016517 **Ending:** 016518

**VIN Range: Beginning:** 016717 **Ending:** 016752

**VIN Range: Beginning:** 016955 **Ending:** 017022

**VIN Range: Beginning:** 017899 **Ending:** 017938

**VIN Range: Beginning:** 018293

**VIN Range: Beginning:** 018489 **Ending:** 018543

**VIN Range: Beginning:** 019009 **Ending:** 019108

**VIN Range: Beginning:** 019316 **Ending:** 019317

**VIN Range: Beginning:** 019468 **Ending:** 019567

**VIN Range: Beginning:** 019790 **Ending:** 020047

**VIN Range: Beginning:** 020374 **Ending:** 020445

**VIN Range: Beginning:** 020477 **Ending:** 020481

**VIN Range: Beginning:** 021620 **Ending:** 021626

**VIN Range: Beginning:** 024430 **Ending:** 024479

**VIN Range: Beginning:** 025134 **Ending:** 025343

**VIN Range: Beginning:** 025492

**VIN Range: Beginning:** 025845 **Ending:** 025868

**VIN Range: Beginning:** 026015 **Ending:** 026039

**VIN Range: Beginning:** 029947 **Ending:** 029961

**Vehicle Type:** Heavy Duty Transit Bus **Body style:** Diesel Sixty Foot High Floor

**Descriptive information which characterizes/distinguishes the recalled vehicles from those model vehicles not included in the recall:** Model Vehicle incorporates New Flyer Part Number 8112157 Universal Joint

**Make(s):** New Flyer **Model Years Involved:** 1994 **Model(s):** E60HF

**Production Dates: Beginning:** 1994 **Ending:** 1994

**VIN Range: Beginning:** 014983 **Ending:** 015041

**Vehicle Type:** Heavy Duty Transit Bus **Body style:** Electric Sixty Foot High Floor

**Descriptive information which characterizes/distinguishes the recalled vehicles from those model vehicles not included in the recall:** Model Vehicle incorporates New Flyer Part Number 8112157 Universal Joint

Identify the approximate percentage of the production of all the recalled models manufactured by your company between the inclusive dates of manufacture provided above, that the recalled model population represents. For example, if the recall involved Widgets equipped with certain items of equipment from January 1, 1996 through April 1, 1997, then what was the percentage of the recalled Widgets of all Widgets manufactured during that time period.

12.6%

## II. Identify the Recall Population

3. Furnish the total number of vehicles recalled potentially containing the defect or noncompliance.

<u>Model</u>	<u>Year</u>	<u>Number of Vehicles Potentially Involved</u>
D35HF	1996	36
C40HF	1994-2000	368
D40HF	1992-1994	258
L40HF	1995	35
D60HF	1991-2007	1194
E60HF	1994	59

Total Number Potentially Affected by the Recall: 1950

4. Furnish the approximate percentage of the total number of vehicles estimated to actually contain the defect or noncompliance:

50%

Identify and describe how the recall population was determined--in particular how the recalled models were selected and the basis for the beginning and final dates of manufacture of the recalled vehicles:

All models of vehicle manufactured by New Flyer Industries since 1991 which utilized the part no. 8112157 were identified. This part was limited to use in the high floor model buses in the steering system.

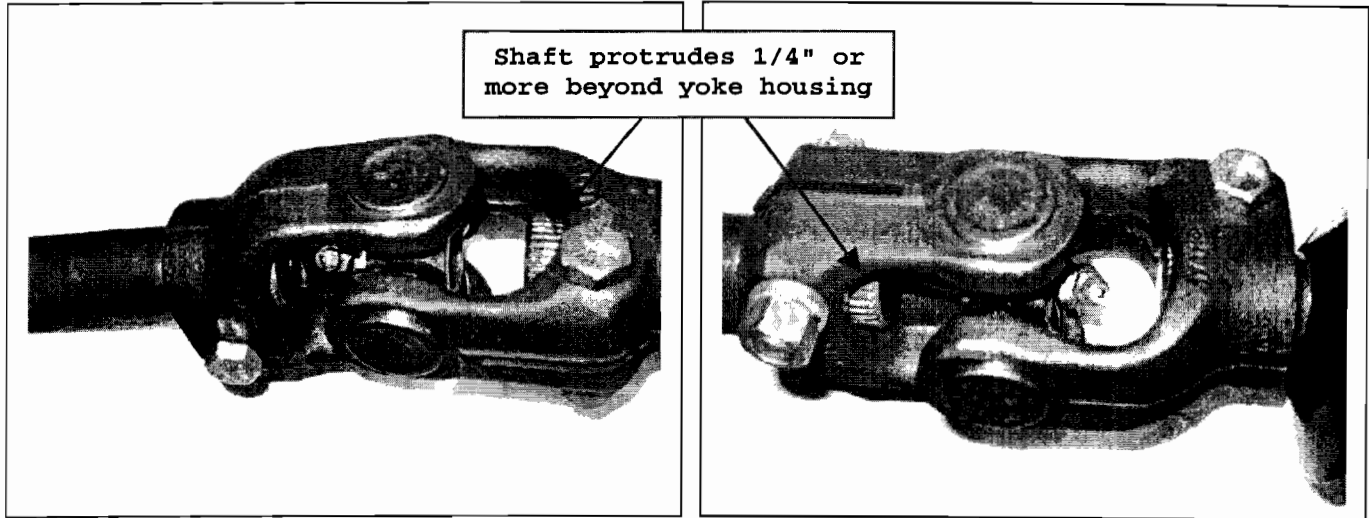
## III. Describe the Defect or Noncompliance

5. Describe the defect or noncompliance. The description should address the nature and physical location of the defect or noncompliance. Illustrations should be provided as appropriate.

In the steering system on a high floor model bus, there is a Universal Joint (U-Joint) which transfers rotary input from the steering column to the transfer gearbox which supplies a 90 degree change in direction to the rotary input from the driver. The U-Joint assemblies bought by New Flyer from Buffalo industries for use in vehicle production, have inadequate spline engagement on one of the two end yokes on the U-Joint assembly. These components supplied by Buffalo Industries do not meet New Flyer Industries design criteria.

**Describe the cause(s) of the defect or noncompliance condition.**

The U-Joints supplied by Buffalo Industries have poor spline engagement on one of the two end yokes of the assembly to the attaching component. Buffalo Industries builds the U-Joints from Dana-Spicer sub-components, to the design criteria supplied by New Flyer Industries. The Buffalo Industries U-Joint, as delivered to New Flyer, have been determined to not be built to New Flyer design criteria, and may result in premature wear of the splines.



**Describe the consequence(s) of the defect or noncompliance condition.**

Excessive play in the steering system could develop and if not corrected cause loss of steering control resulting in a crash, injury or death.

**Identify any warning which can (a) precede or (b) occur.**

Play in steering. Steering play should be detected and repaired during normal 6000 mile preventative maintenance inspections.

**If the defect or noncompliance is in a component or assembly purchased from a supplier, identify the supplier by corporate name and address.**

Buffalo Industries Ltd.  
253 Princess St.  
Winnipeg, MB Canada  
R3B 1M1

**Identify the name and title of the chief executive officer or knowledgeable representative of the supplier:**

Ken Hardy  
Sales Representative

#### **IV. Provide the Chronology in Determining the Defect/Noncompliance**

*If the recall is for a defect, complete item 6, otherwise item 7.*

**6. With respect to a defect, furnish a chronological summary (including dates) of all the principle events that were the basis for the determination of the defect. The summary should include, but not be limited to, the number of reports, accidents, injuries, fatalities, and warranty claims.**

On May 21, 2007 New Flyer was informed by one of our customers that they had experienced a failure of a steering system of a bus while in service. Subsequent examination of the failed steering U-Joint assembly determined that it did not meet the New Flyer design criteria which was sent to the production supplier of the component. Closer examination of the subject U-Joints indicated that they had as little as 60% of the required positive spline engagement on one of the two end yokes in the assembly. New Flyer replacement after market parts were examined as well and determined to be from a different supplier and did meet the New Flyer design criteria for the component. On 25 May 2007, a review of the maintenance records of our customer indicated that multiple components had been changed out during normal Preventative Maintenance (without failure) due to loose or worn connection at the U-Joint assembly. The fleet was inspected and multiple buses were identified with the suspect component installed.

**7. With respect to a noncompliance, identify and provide the test results or other data (in chronological order and including dates) on which the noncompliance was determined.**

N/A

#### **V. Identify the Remedy**

**8. Furnish a description of the manufacturer's remedy for the defect or noncompliance. Clearly describe the differences between the recall condition and the remedy.**

Owners are to inspect the subject assembly in accordance with Instruction to Service ITS3306 and replace sub-standard component if found.

**Clearly describe the distinguishing characteristics of the remedy component/assembly versus the recalled component/assembly.**

Remedy component has full spline engagement with both shafts of the mating components.

**Identify and describe how and when the recall condition was corrected in production. If the production remedy was identical to the recall remedy in the field, so state. If the product was discontinued, so state.**

There are currently no existing orders for the High Floor models of bus. If any future order is to be produced, the correction would be incorporated at that time.

## **VI. Identify the Recall Schedule**

**Furnish a schedule or agenda (with specific dates) for notification to other manufacturers, dealers/retailers, and purchasers. Please, identify any foreseeable problems with implementing the recall.**

Recall notifications to owners will be sent out within 10 days of notification receipt from the NHTSA Recalls Office and the assignment of the Recall number. Some of the vehicles identified in the recall population may no longer be in service or may have been scrapped.

## **VII. Furnish Recall Communications**

**9. Furnish a final copy of all notices, bulletins, and other communications that relate directly to the defect or noncompliance and which are sent to more than one manufacturer, distributor, or purchaser. This includes all communications (including both original and follow-up) concerning this recall from the time your company determines the defect or noncompliance condition on, not just the initial notification. *A DRAFT copy of the notification documents should be submitted to this office by Fax (202-366-7882) for review prior to mailing.***

**Note that these documents are to be submitted separately from those provided in accordance with Part 573.8 requirements.**



**NEW FLYER**

00000111-00000000

SAMPLE LETTER  
PRE 1999 PRODUCTION

XX June, 2007

**"Contact Name"**  
**"Customer Name"**  
**"Customer Address"**

**Re: Recall 07V-XXX - Steering U-Joint Assembly – New Flyer Part Number 8112157**

Dear "*Contact Name*",

This notice is sent to you in accordance with the requirements of the National Traffic and Motor Vehicle Safety Act.

New Flyer has decided that a defect which relates to motor vehicle safety exists in certain New Flyer transit vehicles. The following vehicles which were originally delivered and sold to "*Customer Name*", are affected:

**Make:** New Flyer Transit Vehicle

**Model:** "*Model*"

**VIN Range (last 6 digits):** "*VIN range*"

The subject vehicles were supplied by New Flyer with a Universal Joint (U-Joint) assembly which does not meet the required New Flyer design criteria for spline engagement. The U-Joint is employed in the steering system and is the physical connection between the steering column and the transfer gearbox.

Insufficient spline engagement may result in premature wear of the splines. Excessive wear of the components could cause a failure of the steering system resulting in a crash, injury or death.

New Flyer urges you to review the attached corrective instructions (ITS3306) to inspect for the suspect component and replace if found. For further information with regards to this recall action please contact either your Regional Product Support Manager "*RPSM*" or New Flyer Customer Services at (204) 934-4874.

**Headquarters/  
Winnipeg Facility**  
  
711 Kernaghan Ave.  
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e-mail: bussales@newflyer.com

**Customer  
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R2J 4G5 Canada  
  
Ph: (204) 982-8400

**New Jersey Service  
Support Center**  
  
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Jersey City, New Jersey  
07305-4423 USA  
  
Ph: (201) 369-1200  
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Fx: (320) 203-0584

[www.newflyer.com](http://www.newflyer.com)

If you no longer own this vehicle, please inform us when you call. Federal regulations require that any entity receiving this notice which leases vehicles involved in the recall, must forward a copy of this notice to the leaser within ten days.

If you have any concerns with regards to the handling of this recall action, please forward your comments to:

Administrator  
National Highway Traffic Safety Administration  
400 Seventh Street, SW  
Washington, DC, 20590

or call the toll-free Vehicle Safety Hotline at 1-888-327-4236 (TTY: 1-800-424-9153);  
or go to: <http://www.safercar.gov> .

We regret any inconvenience which this action may cause you. However, we are concerned about your safety. Thank you for your attention to this important matter.

Sincerely,

**Kerry Legg**  
Safety & Compliance Manager  
New Flyer Customer Service Support  
(204) 934-4876

cc: "RPSM", Hans Peper, Cliff Murray, Don Bean, Scott Halbesma, Todd Sutherland.



**NEW FLYER**

07/11/07 3:26

SAMPLE LETTER  
POST 1998 PRODUCTION

XX June, 2007

**"Contact Name"**  
**"Customer Name"**  
**"Customer Address"**

**Re: Recall 07V-XXX - Steering U-Joint Assembly – New Flyer Part Number 8112157**

Dear *"Contact Name"*,

This notice is sent to you in accordance with the requirements of the National Traffic and Motor Vehicle Safety Act.

New Flyer has decided that a defect which relates to motor vehicle safety exists in certain New Flyer transit vehicles. The following vehicles which were originally delivered and sold to *"Customer Name"*, are affected:

**Make:** New Flyer Transit Vehicle

**Model:** *"Model"*

**VIN Range (last 6 digits):** *"VIN range"*

The subject vehicles were supplied by New Flyer with a Universal Joint (U-Joint) assembly which does not meet the required New Flyer design criteria for spline engagement. The U-Joint is employed in the steering system and is the physical connection between the steering column and the transfer gearbox.

Insufficient spline engagement may result in premature wear of the splines. Excessive wear of the components could cause a failure of the steering system resulting in a crash, injury or death.

New Flyer urges you to review the attached corrective instructions (ITS3306) to inspect for the suspect component and replace if found. For further information with regards to this recall action please contact either your Regional Product Support Manager *"RPSM"* or New Flyer Customer Services at (204) 934-4874.

**Headquarters/  
Winnipeg Facility**

711 Kernaghan Ave.  
Winnipeg, Manitoba  
R3C 3T4 Canada

Ph: (204) 224-1251  
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Support Center**

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Fx: (218) 281-5672

**St. Cloud  
Facility**

6200 Glenn Carlson Dr.  
St. Cloud, Minnesota  
56301 USA

Ph: (320) 203-0576  
Fx: (320) 203-0584

If you no longer own this vehicle, please inform us when you call. Federal regulations require that any entity receiving this notice which leases vehicles involved in the recall, must forward a copy of this notice to the leaser within ten days.

This recall is being managed by New Flyer and all parts and labor associated with this corrective action is to be filed as a Warranty Claim to the New Flyer Warranty Department. If you had this corrective action performed before you received this letter, you may be eligible to receive reimbursement for the cost of obtaining a pre-notification remedy of the problem associated with this recall.

If we fail, or we are unable to remedy this defect without charge and, within a reasonable time, you may submit a written complaint to:

Administrator  
National Highway Traffic Safety Administration  
400 Seventh Street, SW  
Washington, DC, 20590

or call the toll-free Vehicle Safety Hotline at 1-888-327-4236 (TTY: 1-800-424-9153);  
or go to: <http://www.safercar.gov> .

We regret any inconvenience which this action may cause you. However, we are concerned about your safety. Thank you for your attention to this important matter.

Sincerely,

**Kerry Legg**  
Safety & Compliance Manager  
New Flyer Customer Service Support  
(204) 934-4876

cc: "RPSM", Hans Peper, Cliff Murray, Don Bean, Scott Halbesma, Todd Sutherland.



THIS DOCUMENT AND THE CONTENTS DISCUSSED HEREIN ARE THE CONFIDENTIAL AND PROPRIETARY INFORMATION OF NEW FLYER INDUSTRIES CANADA ULC AND NEW FLYER OF AMERICA INC. AND ARE DISCLOSED BY NEW FLYER IN CONFIDENCE. THIS DOCUMENT AND THE CONTENTS HEREIN ARE NOT TO BE DISCLOSED BY THE INTENDED RECIPIENT WITHOUT THE PRIOR WRITTEN AUTHORIZATION OF NEW FLYER. ANY UNAUTHORIZED DISCLOSURE, REPRODUCTION OR OTHER DISTRIBUTION OF THIS DOCUMENT OR INFORMATION IS STRICTLY PROHIBITED AND MAY RESULT IN ACTION BEING TAKEN AGAINST THE PARTY MAKING THE UNAUTHORIZED DISCLOSURE. THIS DOCUMENT AND ALL COPIES HEREOF MUST BE RETURNED TO NEW FLYER UPON REQUEST.

**INSTRUCTION TO SERVICE ITS: 3306**

SECTION: 209 Steering	MODEL: <input type="checkbox"/> 30FT <input checked="" type="checkbox"/> 35FT <input type="checkbox"/> 40FT <input checked="" type="checkbox"/> 60FT  <input checked="" type="checkbox"/> DSL <input checked="" type="checkbox"/> CNG <input checked="" type="checkbox"/> LNG <input checked="" type="checkbox"/> ELEC	TYPE: <input checked="" type="checkbox"/> HIGH FLOOR  <input checked="" type="checkbox"/> LOW FLOOR	WRITTEN BY: Grant Li
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**DRAFT**

OBJECTIVE/SUBJECT:  
Inspect and replace U-Joint Assembly.

PROCEDURE:  
1. Turn the main battery disconnect switch to the "OFF" position.

**PART A: Inspect coach for correct U-Joint Assembly.**

2. Locate U-Joint Assembly as shown in Figure 1.

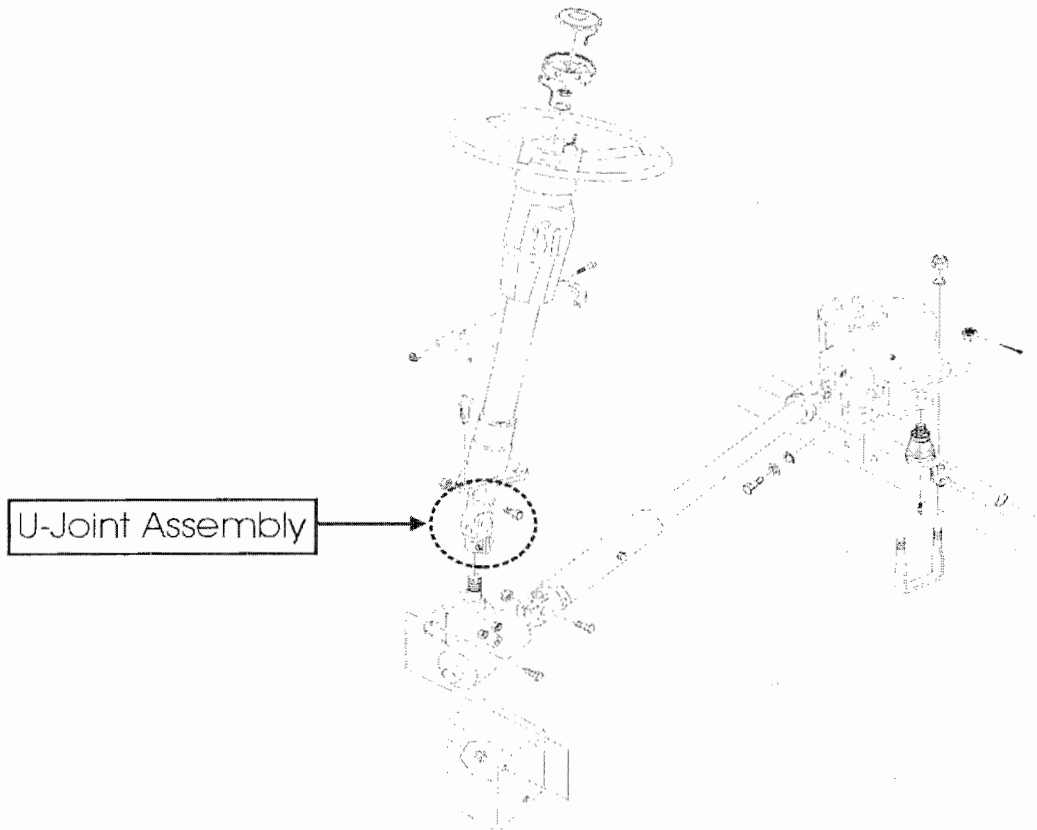


Figure 1:

3. Inspect U-Joint Assembly. If either or both of the following are present, U-Joint Assembly must be replaced, otherwise skip to step 10:
  - a. "Spicer" logo stamped on the U-Joint. See Figure 2.
  - b. One splined shaft protruding  $\frac{1}{4}$ " or more beyond yoke housing at end where offset bolt is located. See Figure 3.

**DRAFT**



"Spicer" logo stamped here



Figure 2:

Shaft protruding into yoke housing

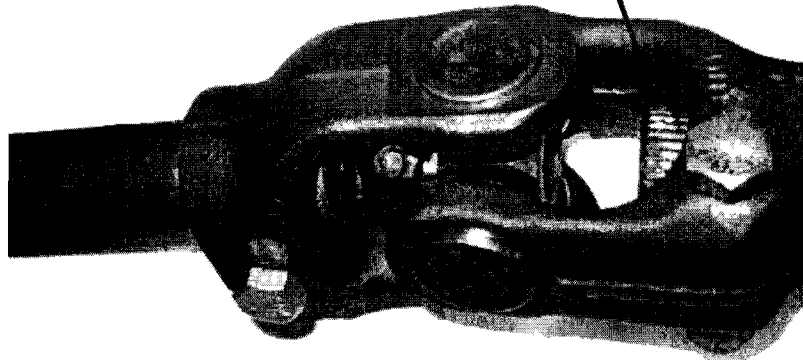


Figure 3:

**DRAFT**



4. Install new U-Joint Assembly (PN 8112157) as required. Torque bolts between 30 to 35 ft-lbs.
5. Check for worn splines on the steering column and transfer gearbox by grasping the U-Joint Assembly by hand and twisting it back and forth.
6. If splined connection is too loose between steering column or transfer gearbox, replace components as required.

**PART B: Perform 6000 mile steering check. (To be determined if Part B is required)**

7. After coach has been in service for 6000 miles, bring coach into garage for inspection.
8. Inspect U-Joint Assembly splined connections for looseness by grasping it by hand and twisting it back and forth.
9. If splined connection is too loose between steering column or transfer gearbox, replace components as required.
10. Turn the main battery disconnect switch to the "ON" position.

**DRAFT**



<b>LABOUR ESTIMATE</b>				
	Operation	Men	Hours	Labour Time M X HR
1	Inspect and replace U-Joint Assembly.	1	0.5	0.5

**DRAFT**

<b>PARTS REQUIRED</b>					
Item	Part Number	Description	Qty. per Coach	Units	Notes
1	8112157	UNIVERSAL JOINT ASSY	1	EA	