

**Model: K-4177
Sabreliner Aircraft**

Illustrated Parts List

11/2007 – Rev. 01

Tronair towbars/heads must only be used with matching Tronair heads/towbars, and Tronair shear pins.

This product can not be modified without the written approval of Tronair, Inc. Any modifications done without written approval voids all warranties and releases Tronair, Inc., its suppliers, distributors, employees, or financial institutions from any liability from consequences that may occur. Only Tronair OEM replacement parts shall be used.

1.0 DESCRIPTION

The Tronair Model K-4177 kit is designed for towing Saberliner Aircraft.

The towbar head attachment is designed for use with Tronair Multi-Head Towbar Model 01-1202-0000 for towing the previously stated aircraft. The towbar head attachment uses a sliding pin/stationary pin arrangement to interface with the aircraft tow point.

1.1 SPECIFICATIONS

Aircraft Application: Saberliner Aircraft

Maximum Aircraft Gross Weight: 24,000 lbs (10.7 Metric tons)

Dimensions: Length: 3 in (7.6 cm) Centerline to centerline
Width: 5 9/16 in (14.1 cm) at aircraft interface
Height: 1 15/16 in (3.3 cm)

Weight: 1.1 lbs (.5 kg)

2.0 SAFETY INFORMATION

2.1 GENERAL

The Tronair K-4177 kit is used for towing the Saberliner aircraft only.

To ensure safe operation, please read the following statements and understand their meaning. This manual contains safety precautions which are explained as follows. Please read carefully.



WARNING! Warning is used to indicate the presence of a hazard that can cause **severe personal injury, death, and/or substantial property damage** if the Warning Notice is ignored.

CAUTION! Caution is used to indicate the presence of a hazard which will or can **cause minor personal injury or property damage** if the Caution Notice is ignored.

WARNING!



A damaged or bent towbar should not be used. Towbar should be repaired or replaced.

Towbars should be used with category 1 tugs ONLY in accordance with AHM 995 "Functional specifications for an aircraft tractor" Using a category 2 or higher tug may result in excessive loads and stresses being applied to the towbar and/or the aircraft. These excessive loads may cause failure of the towbar which could cause damage to the aircraft or personal injury.

3.0 PROVISION OF SPARES

3.1 SPARE PARTS

When ordering Replacement Parts/Kits & Spare Parts, please specify Model & Serial Number of your product.

Spare parts may be obtained from the manufacturer:

TRONAIR, Inc.
1740 Eber Road
Holland, Ohio 43528-9794 USA

Telephone: (419) 866-6301 or 800-426-6301
Fax: (419) 867-0634
E-mail: sales@tronair.com
Website: www.tronair.com

3.2 PARTS LIST AND ILLUSTRATIONS

Reference the following pages for ordering information of Replacement Parts and Kits

4.0 IN-SERVICE SUPPORT

Contact Tronair for technical services and information.

5.0 GUARANTEES/LIMITATION OF LIABILITY

Tronair products are warranted to be free of manufacturing or material defects for a period of one year after shipment to the original customer. This is solely limited to the repair or replacement of defective components. This warranty does not cover the following items:

- a) Parts required for normal maintenance
- b) Parts covered by a component manufacturers warranty
- c) Replacement parts have a 90-day warranty from date of shipment

If you have a problem that may require service, contact Tronair immediately. Do not attempt to repair or disassemble a product without first contacting Tronair, any action may affect warranty coverage. When you contact Tronair be prepared to provide the following information:

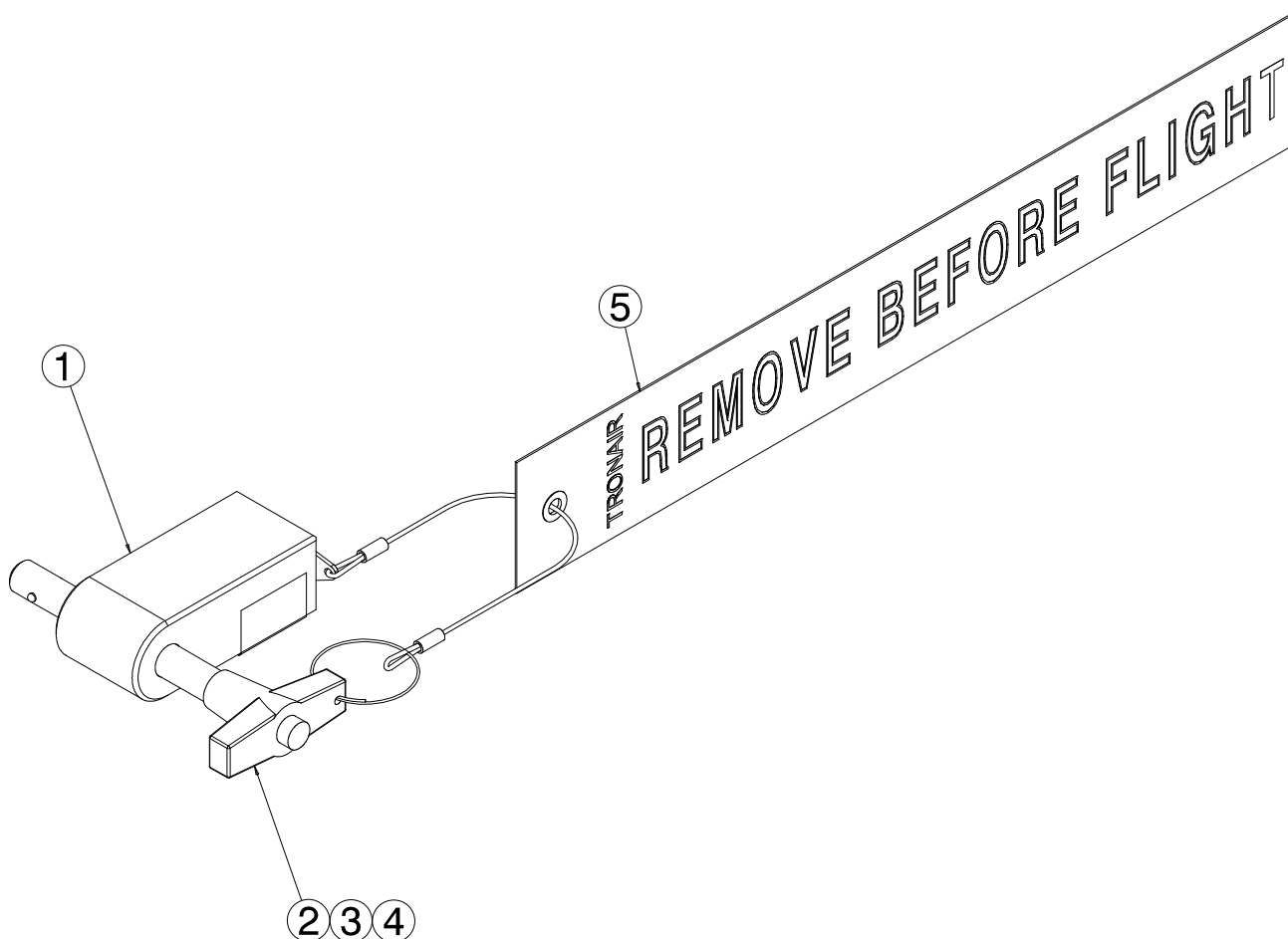
- a) Product Model Number
- b) Product Serial Number
- c) Description of the problem

If warranty coverage is approved, either replacement parts will be sent or the product will have to be returned to Tronair for repairs. If the product is to be returned, a Return Material Authorization (RMA) number will be issued for reference purposes on any shipping documents. Failure to obtain a RMA in advance of returning an item will result in a service fee. A decision on the extent of warranty coverage on returned products is reserved pending inspection at Tronair. Any shipments to Tronair must be shipped freight prepaid. Freight costs on shipments to customers will be paid by Tronair on any warranty claims only. Any unauthorized modification of the Tronair products or use of the Tronair products in violation of cautions and warnings in any manual (including updates) or safety bulletins published or delivered by Tronair will immediately void any warranty, express or implied.

The obligations of Tronair expressly stated herein are in lieu of all other warranties or conditions expressed or implied. **Any unauthorized modification of the Tronair products or use of the Tronair products in violations of cautions and warnings in any manual (including updates) or safety bulletins published or delivered by Tronair will immediately void any warranty, express or implied and Tronair disclaims any and all liability for injury (WITHOUT LIMITATION and including DEATH), loss or damage arising from or relating to such misuse.**

Parts List

When ordering replacement parts/kits, please specify model, serial number and color of your unit.



| ITEM | PART NUMBER | DESCRIPTION | QTY |
|--------|-------------------|--|-----|
| 1..... | J-4199 | Connector..... | 1 |
| 5..... | B-160-01..... | Banner, Remove Before Flight | 1 |
| | K-1438 | Kit, Ball Lok-T Pin Replacement; consists of: | |
| 2..... | G-1310-0835 | Pin, Ball Lok-T..... | 1 |
| 3..... | H-1026*07.0 | Assembly, Lanyard..... | 1 |
| 4..... | G-1351-06 | Rivet, 1/8 Open-End Steel..... | 1 |