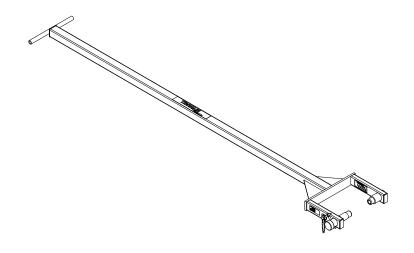


OPERATION & SERVICE MANUAL



Model: 01-1299-0000 Handling Towbar Cessna Excel

01/2023 - Rev. 01

For Spare Parts, Operations & Service Manuals or Service Needs Scan the QR code or visit Tronair.com/aftermarket



Web: www.tronair.com
Email: sales@tronair.com

REVISION DATE TEXT AFFECTED OR 09/2002 Original release 01 01/2023 Major revision



TABLE OF CONTENTS

			<u>PAGE</u>	
1.0	PROD	UCT INFORMATION	1	
	1.1	DESCRIPTION		
	1.2	MODEL & SERIAL NUMBER	1	
	1.3	MANUFACTURER	1	
	1.4	SPECIFICATIONS		
2.0	SAFET	TY INFORMATION	1	
	2.1	GENERAL	1	
3.0	TRAINING			
	3.1	TRAINING REQUIREMENTS		
	3.2	TRAINING PROGRAM		
	3.3	OPERATOR TRAINING	1	
4.0	OPERATION			
	4.1	PRELIMINARY CHECKLIST		
	4.1.1	Towbar	2	
	4.1.2	Towing Head	2	
	4.2	USAGE PROCEDURE		
	4.2.1	Aircraft Attachment		
5.0	PROVI	PROVISION OF SPARES		
	5.1	SOURCE OF SPARE PARTS		
	5.2	RECOMMENDED SPARE PARTS LISTS		
6.0	IN-SEF	RVICE SUPPORT	3	
7.0	GUARANTEES/LIMITATION OF LIABILITY			



Model: 01-1299-0000 Cessna Excel Handling Towbar

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

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

1.0 PRODUCT INFORMATION

1.1 DESCRIPTION

The Tronair Model 01-1299-0000 Handling Towbar is designed for moving the Cessna 560 Citation Excel aircraft manufactured by Cessna Aircraft Company.

The handling towbar has an aircraft attachment by machined pins on the towing head to the nose landing gear axle. There is a handle at the end of the towbar for maneuverability.

1.2 MODEL & SERIAL NUMBER

Reference nameplate on unit

1.3 MANUFACTURER

TRONAIR, Inc. Telephone: (419) 866-6301 or 800-426-6301

1 Air Cargo Pkwy East Fax: (419) 867-0634
Swanton, Ohio 43558 USA E-mail: sales@tronair.com
Website: www.tronair.com

1.4 SPECIFICATIONS

Aircraft Application	Cessna 560 Citation Excel Aircraft manufactured by Cessna Aircraft Company
Length	80.125 in (203.5 cm) From handle centerline to aircraft attachment centerline
Width	. 14.5 in (36.8 cm)
Height	2.0 in (5.08 cm)
Weight	. 30 lbs (13.6 kg)
Maximum Aircraft Gross Weight	11,000 lbs (4.99 Metric tons)

2.0 SAFETY INFORMATION

2.1 GENERAL

The Tronair Model 01-1299-0000 Custom Towbar is used for moving the Cessna Excel 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 is the Caution Notice is ignored.



WARNING!

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

3.0 TRAINING

3.1 TRAINING REQUIREMENTS

The employer of the operator is responsible for providing a training program sufficient for the safe operation of the towbar.

3.2 TRAINING PROGRAM

The employer provided operator training program should cover safety procedures concerning use of the towbar in and around the aircraft at the servicing location.

3.3 OPERATOR TRAINING

The operator training should provide the required training for safe operation of the towbar.

NOTE: Maintenance and Trouble Shooting are to be performed by the skilled and trained technician.





4.0 OPERATION

Your Tronair towbar is engineered and built to the highest standards of quality and workmanship. Under normal usage and with minimal maintenance this towbar will provide exceptional service.



WARNING!

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

Using a damaged or bent towbar can result in aircraft or equipment damage and possible personal injury.



WARNING!

Towbars With Hydraulic Lifting Mechanism:

The hydraulic lift mechanism (on those towbars so equipped) should only be used to raise the towbar to facilitate connection to the aircraft or tug.

Release any hydraulic pressure when towing aircraft or moving towbar.



WARNING!

Towbars Should be Used with Category 1 Tugs:

Towbars should be used with category 1 tugs only in accordance with AHM 995 "Functiona1 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

4.1 PRELIMINARY CHECKLIST

4.1.1 Towbar

- Check weld between handle and tube for cracks.
- Check weld between tube and head plate for cracks.

4.1.2 Towing Head

- Check welds between side rails and head rail for cracks:
- Check welds between side rails and stationary pin. Also sliding pin wear sleeve for cracks.
- Check sliding pin ball lok-T pin. Ensure ball lok-T pin is securely attached to the side rail via its lanyard. Ensure ball lok-T pin is not missing.
- Check sliding pin for bending or excessive wear. Ensure sliding pin slides freely.
- Check sliding pin roll pin. Ensure roll pin is not loose or missing.

4.2 USAGE PROCEDURE

4.2.1 Aircraft Attachment

It is recommended that your towbar be attached to the aircraft first, and then connected to the tug to avoid possible aircraft damage.

Ensure sliding pins are locked in place before towing aircraft.



5.0 PROVISION OF SPARES

5.1 SOURCE OF SPARE PARTS

Spare parts may be obtained from the manufacturer:

TRONAIR, Inc. Telephone: (419) 866-6301 or 800-426-6301

1 Air Cargo Pkwy East Fax: (419) 867-0634 Swanton, Ohio 43558 USA E-mail: sales@tronair.com Website: www.tronair.com

For Spare Parts, Operations & Service Manuals or Service Needs: Scan the QR code or visit Tronair.com/aftermarket

5.2 RECOMMENDED SPARE PARTS LISTS

Reference the following page(s) for Replacement Parts and Kits available.

Part Number	Description
R-1657	PIN, SLIDING
G-1300-19040	PIN, 3/16 X 1/2 LG ROLL
G-1310-0415	PIN, 1/4 X 1.5 BALL LOK-T



6.0 IN-SERVICE SUPPORT

Contact Tronair, Inc. for technical services and information. See Section 1.3 - Manufacturer.

7.0 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:

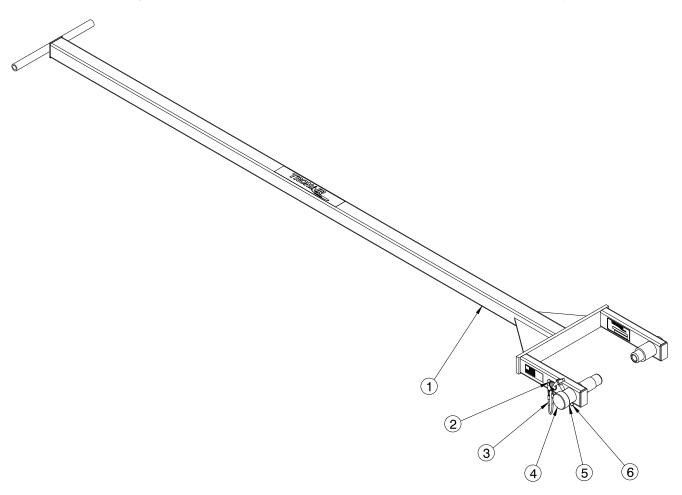
- a) Product Model Number
- b) Product Serial Number
- c) Description of the problem

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	Z-5691-01	Weldment, Towbar Not Sold Sep	arately
2	G-1351-04	Rivet, 1/8 Open-end Steel	1
3	H-1026*07.0	Assembly, Lanyard (7" long)	1
4	R-1657	Pin, Sliding	1
5	G-1300-19040	Pin, Roll (3/8" diameter x ½" long	1
6	G-1310-0415	Pin, Ball Lok-T (1/4" diameter x 1 ½" long)	1