

TOWBAR **USAGE INSTRUCTIONS**

Want to feel confident when moving your multimillion dollar aircraft?

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

NARNING!

A Damaged Or Bent Towbar Or Towbar Head Shall Not Be Used, It Shall Be Repaired Or Replaced. Using a damaged or bent towbar or towbar head can result in aircraft or equipment damage and possible personal injury.

Use Of Towbar With Tug:

Tronair recommends the use of a towbar and tug with aircraft not exceeding the maximum gross weight specification for the particular towbar. Using a towbar with aircraft weighing in excess of this specific limitation 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 (INCLUDING WITHOUT LIMITATION to the aircraft) and/or personal injury OR DEATH. TRONAIR MAKES NO REPRESENTATION, WARRANTY OR GUARANTEE AS TO SUCH MISUSE AND DISCLAIMS ANY AND ALL LIABILITY FOR INJURY, LOSS OR DAMAGE ARISING FROM OR RELATING TO SUCH MISUSE. For further information on the towbar specifications, see the Tronair Operation and Service Manual for the specific towbar.

Towbars With Hydraulic Lifting Mechanism:

The hydraulic lift mechanism (on those towbars so equipped) shall only be used to raise the towbar to facilitate connection to the aircraft or tug. A towbar shall never be used to lift the nose gear of the aircraft. Release any hydraulic pressure when towing aircraft. Retract landing gear of towbar while towing aircraft.

Towbars With Shear Pin:

Towing an aircraft using a towbar with a broken, missing, or non Tronair specified shear pin may cause damage to the aircraft. Follow all Aircraft Manufacturers guidelines when using a towbar.

BEFORE USING A TOWBAR, COMPLETE THE FOLLOWING CHECKLISTS:

NOTE: Typical towbars. Your towbar and/or head may not have all of the features shown.

ALWAYS refer to Operation & Service Manual for complete operating instructions

Rear Lifting Handle	TOWBAR:	Area of Towbar:	Check: (DO NOT USE UNTIL REPAIRED OR REPLACED)
Shock Assembly (Internal)		Shock Assembly	1 Weld between eve and tube (Are there cracks?)



Ensure aircraft attachment is locked in place before towing

- Swivel Hook

- Lift Head - Vertical Side Swing Latch

These types of couplers are known to cause binding and

failure in the eyebolt. Indicators of eyebolt binding are: wear

on the outside diameter of the eye and indentations on the

inside diameter. The failure will begin at the head of the eye.

- Standard Duty Latch

Eyebolt and Pintle Pin Size:

pintle pin plate will be seen. (Section B - B)

Damage to the towbar or aircraft can result by towing or

pushing an aircraft with an incorrect size eyebolt or pintle pin.

between the tug and the towbar. Contact between the towbar weldment and tug must be avoided. It is recommended that the angle between the tug and towbar not exceed 45°. When making turns use a large sweeping radius.

aircraft.

Tug Attachment:

Damage to the towbar or aircraft can result from an excessive towbar angle during towing operations (reference illustrations below). If an aircraft or tug with both high and low tow points is encountered, use the pintle hooks, as shown in bottom two illustrations, so that the towbar is as level as possible during towing. The pintle hook height should prevent contact of towbar wheels with the ground during towing. Operate the tug to prevent sudden starts and stops. Maximum angle between ground and towbar is 5°.





TRONAIR www.tronair.com

Tronair • Email: sales@tronair.com • Phone: 419-866-6301 or 800-426-6301 • Fax: 419-867-0634 Asia Sales Offices: China - Email: tronairchina@tronair.com • Phone: 86-592-5560735 • Fax: 86-592-5563132 Asia/Australia - Email: tronairasia@tronair.com • Phone: 662 2121463 • Fax: 662 2121332 Europe, Middle East & Africa Sales Office • Email: saleseurope@tronair.com • Phone: 44-0-113-245-3300 • Fax: 44-0-113-322-0436