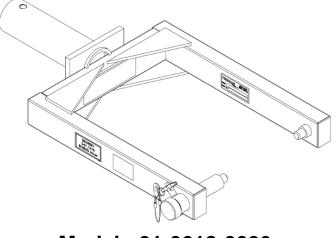


OPERATION & SERVICE MANUAL



Model: 01-0618-0000 Multi-Head Boeing AH-64 Sikorsky S-61 / S-70

01/2023 - Rev. 01

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



REVISIONDATETEXT AFFECTED0101/2023Original release



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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., 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 01-0618-0000 Multi-Head is a towbar head attachment for the Boeing AH-64 and the Sikorsky A-61 / S-70.

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.

1.2 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(s)	Boeing AH-64 and the Sikorsky A-61 / S-70
Maximum Aircraft Gross Weight	25,000 lbs (11.3 metric tons)
Width	15.75 in (40 cm)
Length	28.375 in (97.5 cm) overall
Height	4 in (10.2 cm)
Weight	28 lbs (12.7 kg)
Finish	Powder Coat

2.0 SAFETY INFORMATION

2.1 USAGE AND SAFETY INFORMATION

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, or substantial property damage* if the warning notice is ignored.

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



EXPLANATION OF WARNING & DANGER SIGNS

WARNING!

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



WARNING!

Tronair recommends the use of a towbar with a category 1 or category 2 tug and aircraft not exceeding 75,000 lbs gross weight. Using the 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.*



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.

OPERATOR TRAINING 3.3

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

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

4.0 **OPERATION**

- PRELIMINARY CHECKLIST 4.1
- 4.1.1 Head Attachment Weldment
 - Check weld between connector tube and head plate for cracks.
 - Check weld between side rails and head plate for cracks.
 - Check weld between side rail and stationary pin for cracks.
 - Check weld between side rail and sliding pin sleeve for cracks.

2.1.2 Sliding Pin

- Check sliding pin for bending or excessive wear. Ensure sliding pin slides freely.
- Check sliding pin ball lok-T pin. Ensure ball lok-T pin is securely attached to the head attachment via its lanyard.
- Ensure ball lok-T pin is not loose or missing.

4.2 **USAGE PROCEDURE**

Secure the towbar head attachment using the ball lok-T pin (supplied with the multi-head towbar) onto one of the following Tronair Multi-Head Towbar Models: 01-1290-0100

- 01-1201-0010
- 01-1215-0000
- 01-1202-0000 01-1216-0000 .

5.0 **PROVISION OF SPARES**

SOURCE OF SPARE PARTS 5.1

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

K-1308.....Kit, Ball Lok-T Pin Replacement K-3512.....Kit, Sliding Pin Replacement

IN-SERVICE SUPPORT 6.0

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

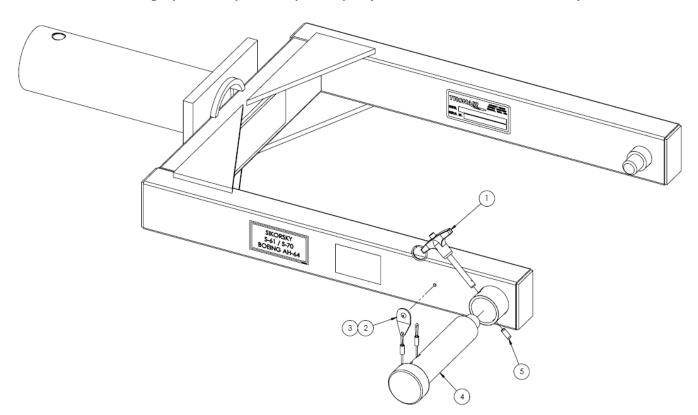
If warranty coverage is approved, either replacement parts will be sent or the product will have to be returned to Tronair for repairs. If the product is to be returned, a Return Material Authorization (RMA) number will be issued for reference purposes on any shipping documents. Failure to obtain a RMA 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.



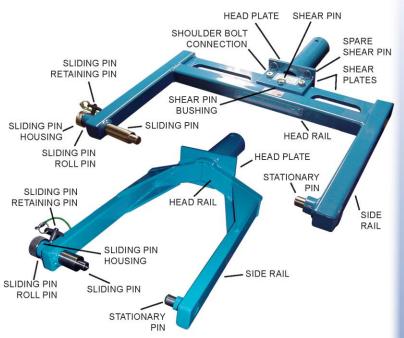
Item	Part Number	Description	Qty
6	Z-8806-01	6-01 Head Weldment Not Sold Separ	
	K-1308	Ball Lok-T Pin, Replacement Kit; consists of:	
1	G-1310-0415	Ball Lok-T Pin, 1/4" diameter x 1-1/2" grip length	1
2	H-1026*07.0	Lanyard Assembly	1
3	G-1351-04	Rivet, 1/8" Open-End Steel	
	K-3512	Sliding Pin, Replacement Kit; consists of:	
4	R-2041	Sliding Pin	1
5	G-1300-19040	Roll Pin, 3/16" diameter x 1/2" long	1

TRONAR® Maintenance Schedule

Standard **Attachment Heads**

Models

woders.
01-0506-0000, 01-0507-0000, 01-0508-0000,
01-0511-0000, 01-0513-0000, 01-0514-0000,
01-0516-0000, 01-0518-0000, 01-0518-0010,
01-0524-0000, 01-0525-0000, 01-0529-0000,
01-0531-0000, 01-0532-0000, 01-0534-0000,
01-0538-0000, 01-0540-0000, 01-0540-0010,
01-0542-0000, 01-0542-0010, 01-0543-0000,
01-0545-0000, 01-0545-0010, 01-0545-0011,
01-0546-0000, 01-0547-0000, 01-0551-0000,
01-0551-0010, 01-0552-0000, 01-0552-0010,
01-0552-0011, 01-0556-0000, 01-0569-0000,
01-0570-0000, 01-0570-0010, 01-0571-0000,
01-0571-0010, 01-0571-0011, 01-0577-0000,
01-0577-0010, 01-0579-0000, 01-0581-0000,
01-0582-0000, 01-0582-0010, 01-0582-0000,
01-0582-0011, 01-0597-0000, 01-0598-0000,
01-0599-0000, 01-0801-0000, 01-0801-0010,
01-0802-0000, 01-0802-0010, 01-0803-0000,
01-0600-0000, 01-0607-0000, 01-0608-0000



Tronair recommends towbar inspections at least once a week.

- Inspect for weld cracks. If found remove the towbar multi-head from service and contact Tronair for repair.
- Inspect the side rails, head rail, and head plate for bending. If found remove the towbar multi-head from service and contact Tronair for repair.
- For towbar multi-heads with shear, inspect the shear plates for bending. If found remove the towbar multi-head from service and contact Tronair for repair
- Inspect the sliding pin(s) and (if applicable) the stationary pin for bending, cracks, and excessive wear. If found remove the towbar multi-head from service and contact Tronair or your Tronair distributor for replacement.
- Ensure the sliding pin(s) can move freely within its housing. If any binding occurs, inspect the sliding pin for bending and the housing for out-of-roundness. If either condition exists, contact Tronair for repair options.
- Inspect the sliding pin retaining pin assembly. Ensure the retaining pin is not missing. Ensure the retaining pin can engage the sliding pin through its housing and that it positively locks the sliding pin into place. If it does not, contact Tronair or your Tronair distributor for replacement/repair.
- Verify the sliding pin is secure to the towbar multi-head via its lanyard. Replace the lanyard if missing.
- Inspect the sliding pin roll pin (located through the sliding pin housing). Ensure the sliding pin roll pin is not loose or missing, contact Tronair or your Tronair distributor for replacement if needed.
- G For towbar multi-heads with shear, check the shoulder bolt connections through the shear plates. Verify they are not clamping the shear plates together. There should not be any clamping force applied to the shear plates so the assembly functions properly. If required, back the stopnut off to remove any clamping force applied.
- For towbar multi-heads with shear, inspect the shear pin. If the shear pin is bent, broken, or missing contact Tronair or your Tronair distributor for replacement. Tronair recommends purchasing spare shear pins for rapid replacement, use only Tronair specified shear pins.
- For towbar multi-heads with shear, inspect the shear pin bushings. If the shear pin bushings are cracked or chipped, contact Tronair or your Tronair distributor for replacement, use only Tronair specified shear pin bushings.
- Inspect all steel components for signs of rust. Touch up with paint as required.

INS-1789

www.tronair.com

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