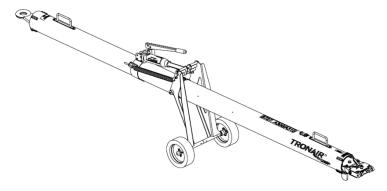


OPERATION & SERVICE MANUAL



Model: A004190D Airbus A300/310 Boeing 727 Towbar

10/2022 - 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 01 DATE 102022

TEXT AFFECTED Original release



TABLE OF CONTENTS

| | | <u>.</u> | <u>PAGE</u> |
|-----|-------|---------------------------------|-------------|
| 1.0 | PROD | DUCT INFORMATION | 4 |
| | 1.1 | DESCRIPTION | |
| | 1.2 | MODEL & SERIAL NUMBER | |
| | 1.3 | MANUFACTURER | |
| 2.0 | SAFE | ETY INFORMATION | |
| | 2.1 | USAGE AND SAFETY INFORMATION | 4 |
| 3.0 | TRAII | NING | 4 |
| | 3.1 | TRAINING REQUIREMENTS | 4 |
| | 3.2 | OPERATOR TRAINING | 4 |
| 4.0 | OPER | RATION | |
| | 4.1 | PREPARATION FOR USE | 5 |
| | 4.2 | AIRCRAFT ATTACHMENT | |
| | 4.3 | TOWING | |
| | 4.4 | TOWING SPEED | 5 |
| | 4.5 | BOLT TORQUE | 5 |
| 5.0 | MAIN | ITENANCE | |
| | 5.1 | DAILY INSPECTION | |
| | 5.2 | BI-YEARLY INSPECTION | 6 |
| | 5.3 | YEARLY INSPECTION | 6 |
| | 5.4 | AS REQUIRED | |
| | 5.5 | TOWBAR DAMAGE AND REPAIR | 6 |
| | 5.6 | PLACARDS | |
| 6.0 | | VISION OF SPARES | |
| | 6.1 | SOURCE OF SPARE PARTS | |
| | 6.2 | RECOMMENDED SPARE PARTS LISTS | |
| 7.0 | | ERVICE SUPPORT | |
| 8.0 | GAUF | RANTEES/LIMITATION OF LIABILITY | 7 |



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

This towbar is designed for towing Airbus A300, A310 and Boeing 727 aircraft. The following operational instructions are only intended to familiarize the operator with the basic functions of the towbar. They are not intended to teach actual pushback procedures or techniques.

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

2.0 SAFETY INFORMATION

2.1 USAGE AND SAFETY INFORMATION

To insure safe operations please read the following statements and understand their meaning. Also refer to your equipment manufacturer's manual for other important safety information. This manual contains safety precautions which are explained below. 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.

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 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 a skilled and trained technician.



4.0 OPERATION

4.1 PREPARATION FOR USE

The towbar has been lubricated and adjusted at the factory and no additional preparation is required.

A general inspection should be made to determine if any damage was substained in transit. If any damage was sustained the transportation company should be notified immediately.

4.2 AIRCRAFT ATTACHMENT

It is recommended that you attach the towbar to the aircraft first, and then connect it to the tug to avoid potential aircraft damage.

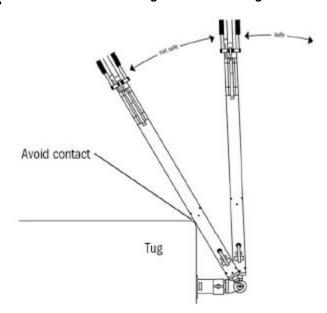
4.3 TOWING

Damage to the towbar or aircraft can result from pushing an aircraft at too sharp of an angle between the tug and the aircraft. Contact between the tug and towbar tube must be avoided.



WARNING!

DO NOT EXCEED 90° angle between the tug and towbar.





WARNING!

A damaged or bent towbar should not be used, the towbar should be repaired or replaced. The tube may not be bowed more than 1/2 in (13 mm) over its length or have any damage creating a dent more than 1/2 in (13 mm) deep. BENT TOWBARS CAN NOT BE REPAIRED AND MUST BE REPLACED.

4.4 TOWING SPEED

A maximum towing speed of 10 mph (16 kph) is recommended.



CAUTION!

Exceeding the maximum towing speed may result in damage to the aircraft, tug, or towbar.

4.5 BOLT TORQUE

Torque Values of Grade 5 Fine Thread (SAE) Fasteners (all torque specified in ft-lbs)

| BOLT DIAMETER | 1/4-28 | 5/16-24 | 3/8-24 | 7/16-20 | 1/2-20 | 5/8-18 | 3/4-16 | 7/8-14 | 1-12 |
|----------------|--------|---------|--------|---------|--------|--------|--------|--------|------|
| INSTALL TORQUE | 9 | 20 | 35 | 55 | 90 | 90 | 90 | 90 | 90 |

Do Not Follow the above torque value chart for Shear Bolt and/or Retention Bolts.

Replacing Shear Bolt / Retention Bolt Instructions: tighten bolts only enough to remove slack or until nut reaches the end of the threads, and then loosen one half turn. Bolts should turn freely with hand wrench.



5.0 MAINTENANCE

5.1 DAILY INSPECTION

- Visually check towbar for physical damage. Repair or replace parts if necessary.
- Check head for proper operation, damaged parts, binding, etc. Readjust or replace as necessary.

5.2 BI-YEARLY INSPECTION

- Check shear bolts by turning heads with a hand wrench. Any binding indicates a partial sheared bolt, replace if necessary.
- Grease the axle lift pivots with the provided grease zerks.
 - Use Lithium EP2 or equivalent
- Check hydraulic hand pump for proper operation and adequate oil level
 - Add ATF Fluid if necessary
 - For extreme cold 5606 oil is acceptable
- Check tire pressure (if equipped with pneumatic tires). Pressure should be 24 psi
- Check lunette ring for excessive wear. Measure ring at the thinnest point, ring cross section should be no less than 1.25 inches. Replace if necessary.

5.3 YEARLY INSPECTION

- The wheels should be removed and the hub bearings repacked with grease.
 - Use Lithium EP2 or equivalent

5.4 AS REQUIRED

When replacing shear bolts and/or retention bolt: tighten bolts only enough to remove slack and then loosen one half turn. Bolts should turn freely with hand wrench.



CAUTION!

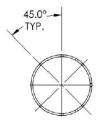
Over tightening of shear bolts and/or retention bolt will cause bolts to shear at a higher load than desired.

5.5 TOWBAR DAMAGE AND REPAIR

Mounting Holes: If the lunette or head mounting holes are damaged they can be repaired by shortening the tube and re-drill the holes. This may be done once per each end. Approximately 3.5" will need to be cut off to allow new holes to be drilled. Use the mating part as a guide in marking the (12) Ø.375 holes. Torque hardware to 35 ft-lbs.

Bowing: The tube may not be bowed more than 1/2" over its length.

2.938 1.813 – .750 – Ø.375 (12X)



Dents: Any dent in the aluminum tube may not be any deeper than 1/2" deep.

Gouges: Any gouge in the aluminum tube may not be any deeper than 1/8" deep x 1" long.

Any tube with damage that does not fit the above must be replaced.

5.6 PLACARDS

SHEAR BOLT USE # 15L19423

15L19500

SHEAR BOLT REPLACEMENT
WHEN REPLACING SHEAR BOLT DO NOT
TORQUE THE NUTS DOWN TIGHT. THE BOLTS
SHOULD ROTATE WITH VERY LITTLE EFFORT OR THE NUT
IS TOO TIGHT. THIS INCLUDES THE RETENTION BOLT.

1505751

B727, A300/A310

1506179



6.0 PROVISION OF SPARES

6.1 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

6.2 RECOMMENDED SPARE PARTS LISTS

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

Recommended Spares to be kept on hand: K-5546.....Kit, Shear Bolt Replacement 15F3288.....Tie & Hub Assembly

15O6017Kit, Cylinder Seal 15O6235Kit, Handle Pin



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

8.0 GAURANTEES/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:

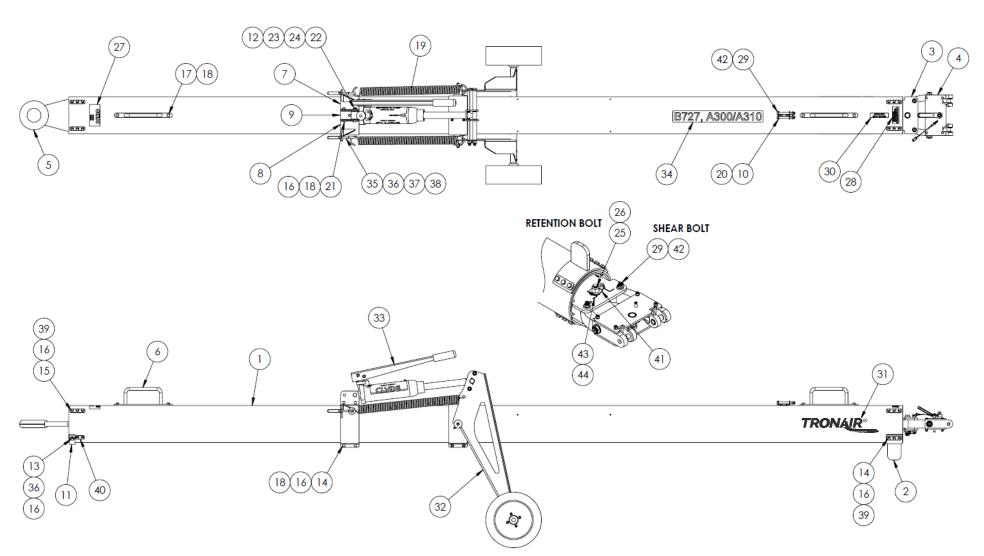
- a) Product Model Number
- b) Product Serial Number
- Description of the problem

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.



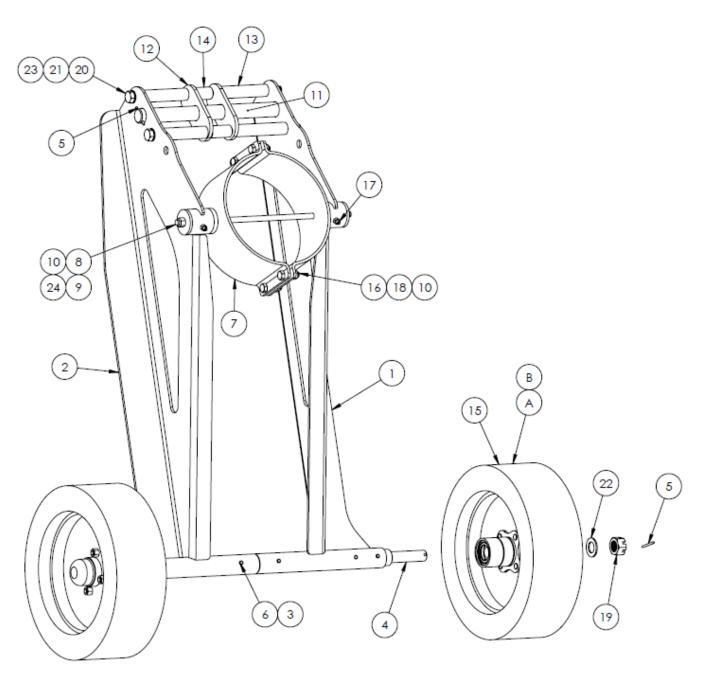


Parts List
When ordering replacement parts/kits, please specify model, serial number and color of your unit.

| Item | Part Number | Description | Qty |
|------|-------------|------------------------------------|-----|
| 1 | 15L16835 | TOWBAR TUBE | 1 |
| 2 | 15W5732 | SKEG, TOWBAR | 1 |
| 3 | 15F2410 | HEAD MOUNT ASSEMBLY | 1 |
| 4 | 15F2408 | TOWBAR HEAD ASSEMBLY | 1 |
| 5 | 15W4565 | LUNETTE WELD | 1 |
| 6 | 15W5484 | HANDLE WELD | 2 |
| 7 | 15W186 | SPRING BRKT & ATTACH ANGLE WELD RH | 1 |
| 8 | 15W2495 | SPRING BRKT & ATTACH ANGLE WELD LH | 1 |
| 9 | 15W308 | KEEPER BLOCK & PIN WELD | 1 |
| 10 | 15L22990 | SHEAR BOLT HHOLDER, SMALL | 1 |
| 11 | 15L19014 | RUB PLATE | 1 |
| 12 | 15L506 | CYLINDER END SLEEVE | 1 |
| 13 | 150719 | 3/8-24 x 1-3/4" LG. C.S. | 2 |
| 14 | 150337 | 3/8-24 x 1-1/2" LG. C.S. | 8 |
| 15 | 150310 | 3/8-24 x 1-1/4" LG. C.S. | 16 |
| 16 | 150308 | 3/8-24 NYLOK NUT | 28 |
| 17 | 150310 | 3/8-24 x 1-1/4" LG. C.S. | 4 |
| 18 | 150307 | 3/8-24 1" LG. C.S. | 8 |
| 19 | 150309 | 3/8" AN WASHER | 2 |
| 20 | 15L2726 | EXTENSION SPRING | 2 |
| 21 | 1503323 | 1/4-20 x 3/4" LG. SELF TAPPING | 2 |
| 22 | 150306 | 3/8-24 x 2-3/4" LG. C.S. | 1 |
| 23 | 150300 | 1/2-20 x 2-3/4" LG. C.S. | 1 |
| 24 | 150302 | 1/2" AN WASHER | 1 |
| 25 | 150660 | 1/2-20 NYLOK JAM NUT | 1 |
| 26 | 1503202 | 5/8-18 X 4" LG. C.S. | 1 |
| 27 | 15O4099 | SERIAL NUMBER PLATE | 1 |
| 28 | 1505751 | PLACARD, SHEAR BOLT REPLACEMENT | 1 |
| 29 | 15L19423 | SHEAR BOLT | 4 |
| 30 | 15L19500 | SHEAR BOLT PLACARD | 1 |
| 31 | V-1033 | TRONAIR LOGO | 2 |
| 32 | 15F190 | AXLE LIFT ASSEMBLY | 1 |
| 33 | 15O6016 | HYDRAULIC COMBO PUMP | 1 |
| 34 | 1506179 | B727, A300/A310 PLACARD | 1 |
| 35 | 15O5867 | 3/8-16 x 4-1/4" LG. EYE BOLT | 2 |
| 36 | 150246 | 3/8" WASHER | 4 |
| 39 | 150588 | 3/8-16 UNC NYLOK NUT | 2 |
| 38 | 15L26242 | THREAD PROTECTOR | 2 |
| 39 | 15L27012 | 3 HOLE WASHER | 14 |
| 40 | 15L27013 | 2 HOLE WASHER | 2 |
| 41 | 15L25597 | LAYNARD MTG. TAB | 1 |
| 42 | 1505431 | 7/16-20 NYLOK JAM NUT | 4 |
| 43 | 1506041 | NYLON LANYARD | 2 |
| 44 | 1506042 | CLIP RETAINING PIN | 2 |
| N/S | K-5546 | KIT, SHEAR BOLT REPLACEMENT | 1 |



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



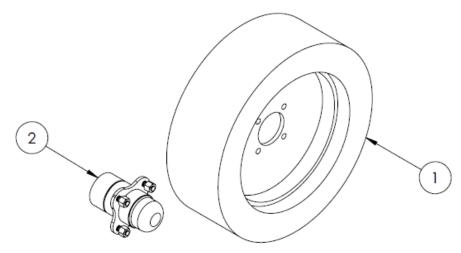


Parts List
When ordering replacement parts/kits, please specify model, serial number and color of your unit.

| Item | Part Number | Description | Qty |
|------|-------------|--|-----|
| | 15F190 | 4 AXLE LIFT ASSEMBLY; consists of: | |
| 1 | 15W6615 | LIFT AXLE WELDMENT RH | 1 |
| 2 | 15W6614 | LIFT AXLE WELDMENT LH | 1 |
| 3 | 15L504 | AXLE ATTACHMENT TUBE CONNECTOR | 1 |
| 4 | 15L502 | AXLE | 2 |
| 5 | 15O269 | 1/8" x 1-1/2" LG. COTTER KEY | 4 |
| 6 | 15O590 | 1/4 x 1-1/2" LG. ROLL PIN | 6 |
| 7 | 15W181 | AXLE PIVOT SPINDLE & BRACKET WELD. | 2 |
| 8 | 15L498 | AXLE PIVOT TIE-ROD | 1 |
| 9 | 15L499 | PIVOT SPINDLE WASHER | 2 |
| 10 | 15O308 | 3/8-24 NYLOK NUT | 6 |
| 11 | 15L491 | CYLINDER ATTACHMENT ROD | 1 |
| 12 | 15L482 | SPACER FLAT | 2 |
| 13 | 15L493 | OUTER SPACER | 4 |
| 14 | 15L494 | INNER SPACER | 2 |
| 15 | 15F3288 | TIRE & HUB ASSEMBLY | 2 |
| 16 | 15O337 | 3/8-24 x 1-1/2" LG. C.S. | 4 |
| 17 | 15O5865 | ZERK, GREASE | 2 |
| 18 | 15O309 | 3/8" AN WASHER | 4 |
| 19 | 1503113 | 3/4-16 SLOTTED NUT | 2 |
| 20 | 1503711 | 1/2- 13 UNC x 12" LG. C.S.(WAS 15L492) | 2 |
| 21 | 1501718 | 1/2-13 UNC NYLOK NUT (WAS 150660) | 2 |
| 22 | 15O321 | 3/4" AN WASHER | 2 |
| 23 | 15O302 | 1/2" AN WASHER | 4 |
| 24 | 15O1289 | OILITE BEARING | 4 |

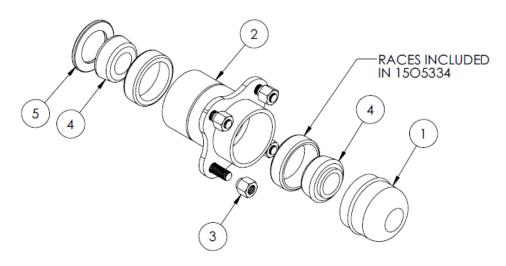


Parts List
When ordering replacement parts/kits, please specify model, serial number and color of your unit.



| Item | Part Number | Description | Qty |
|------|-------------|-----------------------------------|-----|
| | 15F3288 | TIRE & HUB ASSEMBLY; consists of: | |
| 1 | 1506471 | 12 X 4 SOLID TIRE WITH 4 BOLT RIM | 1 |
| 2 | 15O6475 | HUB ASSEMBLY | 1 |

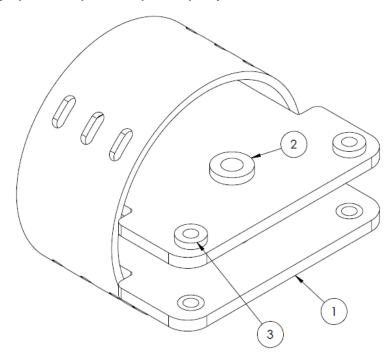
Parts List
When ordering replacement parts/kits, please specify model, serial number and color of your unit.



| Item | Part Number | Description | Qty |
|------|-------------|----------------------------|-----|
| | 1506475 | HUB ASSEMBLY; consists of: | |
| 1 | 15O5335 | DUST CAP | |
| 2 | 15O5334 | HUB | |
| 3 | 1505747 | 5/16-24 LUG NUT | 4 |
| 4 | 15O5332 | .750 BORE TAPERED BEARING | 2 |
| 5 | 15O5333 | GREASE SEAL | 1 |



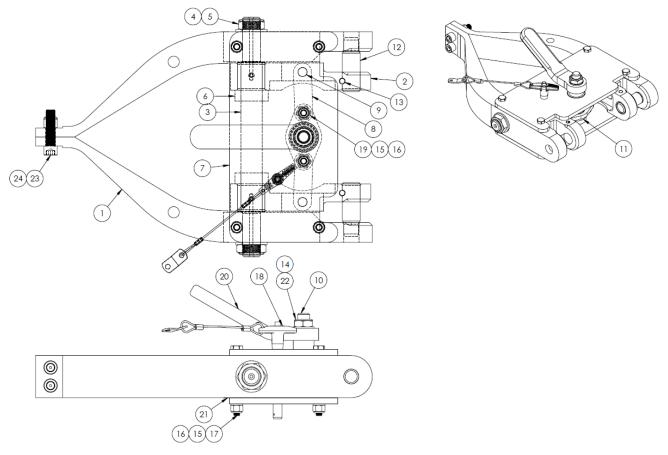
Parts List
When ordering replacement parts/kits, please specify model, serial number and color of your unit.



| Item | Part Number | Description | Qty |
|------|-------------|-----------------------------------|-----|
| | 15F2410 | HEAD MOUNT ASSEMBLY; consists of: | |
| 1 | 15W4872 | PLATE WELD | 1 |
| 2 | 15O5569 | BUSHING TYPE H | 2 |
| 3 | 15O322 | DRILL JIG BUSHING | 4 |



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





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

| Item | Part Number | Description | Qty |
|------|-------------|--------------------------------------|-------------|
| | 15F2408 | TOWBAR HEAD ASSEMBLY; consists of: | |
| 1 | 15L483 | HEAD, SIDE ARM | 2 |
| 2 | 15L19470 | SLIDING PIN POSITIONER | 2 |
| 3 | 15L489 | HEAD SHAFT | 1 |
| 4 | 15O321 | 3/4" AN WASHER | 2 |
| 5 | 15O595 | 3/4-16 NYLOK JAM NUT | 2 |
| 6 | 15L486 | BUSHING, PIN | 2 |
| 7 | 15L19469 | HEAD PLATE | 2 |
| 8 | 15L487 | PIN POSITIONER LINK | 2 |
| 9 | 15L485 | POSITIONER LINK PIN | 2 |
| 10 | 15W4976 | PIN DRIVE WELD | 1 |
| 11 | 15L476 | DRIVE WELDMENT BUSHING | 2 |
| 12 | 15L484 | CONNECTOR PIN | 2 |
| 13 | 15O318 | 1/4 x 1-3/4" LG. ROLL PIN | 2 |
| 14 | 15O302 | 1/2" AN WASHER | 1 |
| 15 | 15O303 | 1/4" AN WASHER | 6 |
| 16 | 15O298 | 1/4-28 NYLOK NUT | 6 |
| 17 | 15O828 | 1/4-28 x 2-3/4" LG. C.S. | 4 |
| 18 | 15O2976 | BALL LOCK PIN | 1 |
| 19 | 15L19954 | SHOULDER BOLT | 2 |
| 20 | 15L6378 | WRENCH, HEAD | 1 |
| 21 | 15O325 | .01 X 1-1/4" X 4" LG SHIM STOCK | AS REQ'D |
| 22 | 15O660 | 1/2-20 NYLOK JAM NUT | 1 |
| 23 | 15O5734 | 3/8-24 x 1-1/2" LG. SOCKET HEAD C.S. | 2 |
| 24 | 15O308 | 3/8-24 NYLOK NUT | 2 |

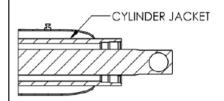


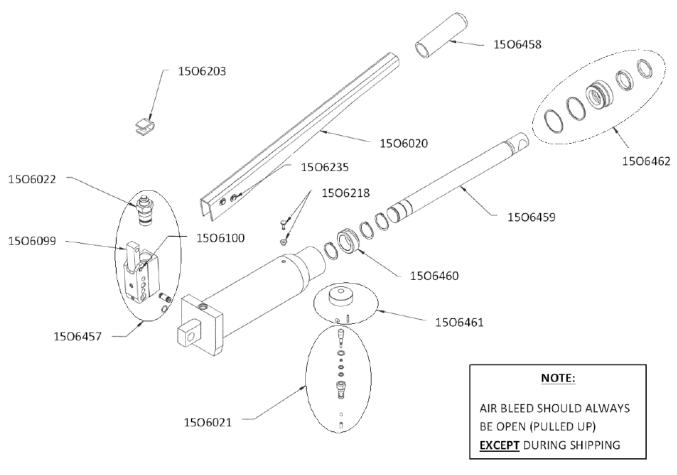
Parts List

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

FILL PROCEDURE:

- REMOVE THE BRASS VENT PLUG THEN THE RUBBER GROMMET.
- FILL TILL THE ATF FLUID JUST COVERS THE CYLINDER JACKET.
- DO NOT OVER FILL. OVER FILLING WILL
- CAUSE OIL TO LEAK OUT THE AIR BLEED.
- REPLACE THE RUBBER GROMMET
- THEN THE BRASS VENT PLUG.





1506017 SEAL KIT

AIR BLEED PROCEDURE

- 1. Elevate the towing eye end of towbar until combo pump is pointing downward (handle end raised).
- 2. Extend cylinder fully by pumping handle.
- 3. Retract cylinder SLOWLY by opening release knob SLIGHTLY.
- 4. Repeat step 3 until no sign of air is noticeable.



Parts List - 1506016

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

| Part Number | Description | Qty |
|----------------|--|-----|
| 1506017 | CYLINDER SEAL KIT; consists of: | |
| | SPRING | 1 |
| | O-RING | 1 |
| | O-RING | 4 |
| | B/U WASHER | 4 |
| | BALL | 1 |
| | O-RING | 1 |
| | O-RING | 1 |
| | B/U WASHER | 1 |
| | O-RING | 1 |
| | SCREEN | 1 |
| | ROD SEAL | 1 |
| | ROD WIPER | 1 |
| | O-RING | 1 |
| | B/U WASHER | 1 |
| | RETAINING RING | 3 |
| | WIPER | 1 |
| | SEAL, U-CUP | 1 |
| 1506020 | REPLACEMENT HANDLE KIT; consists of: | |
| | HANDLE | 1 |
| | PIN | 2 |
| | RETAINING RIN | 4 |
| | GRIP | 1 |
| 1506021 | RELEASE VALVE KIT; consists of: | |
| | SPRING | |
| | RELEASE VALVE BODY | |
| | O-RING | |
| | O-RING | |
| | B/U WASHER | |
| | BALL | |
| | O-RING | |
| | RELEASE VALVE SCREW | |
| 1506022 | PUMPING STATION KIT; consists of: | |
| | B/U WASHER | 1 |
| | O-RING | 1 |
| | PISTON | 1 |
| | PISTON RETAINER | 1 |
| | WIPER | 1 |
| | SEAL, U-CUP | 1 |
| 1506218 | VENT VALVE/FILL PULG KIT; consists of: | |
| | VENT PLUG | 1 |
| | VENT VALVE | 1 |

| Number 1506457 PUMP KIT; consists of: PUMP BLOCK CHECK VALVE EXPANDER PLUG HANDLE LINK SPRING PIN PISTON RETAINER PISTON O-RING B/U WASHER | 1 3 2 1 1 1 |
|--|----------------------------|
| CHECK VALVE EXPANDER PLUG HANDLE LINK SPRING PIN PISTON RETAINER PISTON O-RING B/U WASHER | 3 2 1 1 1 |
| EXPANDER PLUG HANDLE LINK SPRING PIN PISTON RETAINER PISTON O-RING B/U WASHER | 2 1 1 |
| HANDLE LINK SPRING PIN PISTON RETAINER PISTON O-RING B/U WASHER | 1 1 1 |
| SPRING PIN PISTON RETAINER PISTON O-RING B/U WASHER | 1 |
| PISTON RETAINER PISTON O-RING B/U WASHER | 1 |
| PISTON O-RING B/U WASHER | |
| O-RING B/U WASHER | 1 |
| B/U WASHER | |
| | 1 |
| WIDED | 1 |
| WIPER | 1 |
| SEAL, U-CUP | 1 |
| PLUG SAE | 1 |
| RELIEF VALVE TUBE | 1 |
| RELIEF VALVE SEAT | 1 |
| BALL | 1 |
| RELIEF VALVE GUIDE | 1 |
| WASHER | 1 |
| COMPRESSION SPRING | 1 |
| B/U WASHER | 3 |
| O-RING | 3 |
| BUSHING | 1 |
| 1506464 RELEASE KNOB KIT; consists of: | |
| KNOB | 1 |
| PIN | 1 |
| SET SCREW | 1 |
| 1506462 RETAINER NUT KIT; consists of: | |
| RETAINER NUT | 1 |
| ROD SEAL | 1 |
| ROD WIPER | 1 |
| O-RING | 1 |
| B/U WASHER | 1 |
| 1506235 HANDLE PIN KIT; consists of: | |
| PIN | 1 |
| RETAINING RING | 2 |
| 15O6099 HANDLE LINK | 1 |
| 15O6100 SLOTTED SPRING PIN | 1 |
| 15O6203 U-CLIP PISTON TAB | 1 |
| 15O6458 HANDLE GRIP | 1 |
| 15O6459 PISTON ROD | 1 |
| 15O6460 PISTON, CYLINDER BEARING | 1 |
| 15O6015 PLACARD | 1 |