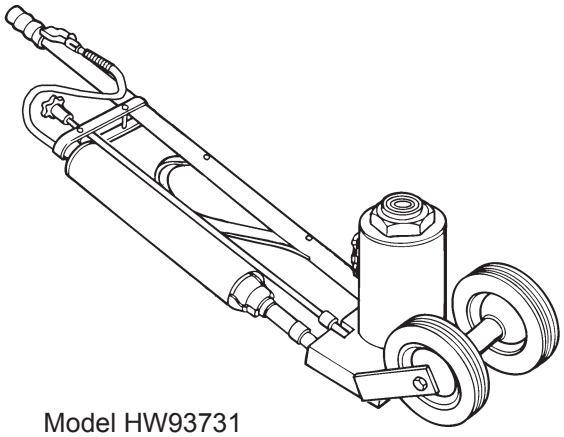
HEIN-WERNER AUTOMOTIVE®

# Air Actuated Truck Jacks

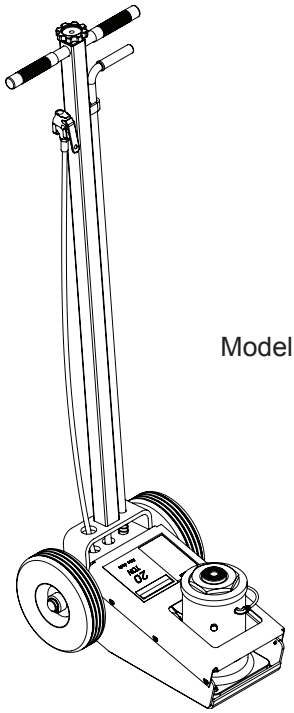
## Operating Instructions & Parts Manual

| Model Number | Capacity |
|---|---|
| HW93731 | 20 Ton |
| HW93733 | 20 Ton |

**Made in the U.S.A.**



Model HW93731



Model HW93733

*This is the safety alert symbol. It is used to alert you to potential personal injury hazards. Obey all safety messages that follow this symbol to avoid possible injury or death.*

SFA Companies
10939 N. Pomona Ave. Kansas City, MO 64153
customerservices@heinwerner-automotive.com

**Read this manual and follow all the Safety Rules and Operating Instructions before using this product.**

HW93731-M0_112011

## SIGNAL WORDS

| | |
|---|---|
| **⚠ DANGER**<br>Indicates situation which, if not avoided, will result in death or serious injury | **⚠ WARNING**<br>Indicates situation which, if not avoided, could result in death or serious injury |
| **⚠ CAUTION**<br>Indicates situation which, if not avoided, could result in minor or moderate injury | **NOTICE**<br>Indicates situation which, if not avoided, could result in damage to property |

## ⚠ WARNING

- Study, understand, and follow all instructions before operating this device.
- Do not exceed rated capacity.
- Use only on hard, level surface.
- This is a lifting device only. Immediately after lifting, support the vehicle with appropriate means.
- Do not move or dolly the vehicle while on the jack.
- Lift only on areas of the vehicle as specified by the vehicle manufacturer.
- No alterations shall be made to this product.
- Failure to heed these markings may result in personal injury and/or property damage.

## SAFETY AND GENERAL INFORMATION

**Save these instructions.** For your safety, read, understand, and follow the information provided with and on this jack. The owner and operator shall have an understanding of this jack and safe operating procedures before attempting to use. The owner and operator shall be aware that use and repair of this product may require special skills and knowledge. Instructions and safety information shall be conveyed in the operator's native language before use of this jack is authorized. If any doubt exists as to the safe and proper use of this jack, remove from service immediately.

**Inspect before each use.** Do not use if broken, bent, cracked, or damaged parts (including labels) are noted. Any jack that appears damaged in any way, operates abnormally or is missing parts, shall be removed from service immediately and the manufacturer notified. If you suspect that the jack was subjected to a shock load (a load dropped suddenly, unexpectedly upon it), immediately discontinue use until the jack has been checked by a Hein-Werner authorized service center (contact distributor or manufacturer for list of Authorized Service Centers). It is recommended that an annual inspection be done by qualified personnel. Replace worn or damaged parts and assemblies with Hein-Werner authorized replacement parts only (see Replacement Parts, pages 6 thru 11).

## PRODUCT DESCRIPTION

Hein-Werner Air Actuated Hydraulic Truck Jacks are designed to lift, but not support, rated capacity loads. They are designed to be used vertically. Immediately after lifting, loads must be supported by appropriate mechanical means (as opposed to hydraulic means), such as a pair of appropriately rated jack stands.

⚠ **WARNING:** *NEVER use a hydraulic jack as a stand-alone device. After lifting, immediately support the vehicle with a pair of appropriately rated stands.*

## SPECIFICATIONS

| Model HW93731 | |
|---|---|
| Rated Load Capacity | 20 tons (40,000 lbs) |
| Low Pick Up Height | 9-1/2" |
| High Lifting Point | 17-1/2" |
| Power Raise | 5-1/2" |
| Screw Extension | 2-1/2" |
| Base Size | 8" x 5-1/2" |
| Ram Diameter | 2-3/16" |
| Handle Length | 50" |
| Wheel Diameter | 6" |
| Max. Air Pressure Supply | 150 psi |
| Required Air Pressure For Lifting Loads | 140 psi for 40,000 lb.<br>125 psi for 35,400 lb.<br>100 psi for 27,900 lb.<br>75 psi for 19,700 lb. |

| Model HW93733 | |
|---|---|
| Rated Load Capacity | 20 tons (40,000lbs) |
| Low Height | 9" |
| High Height With Extension | 19-3/4" |
| Screw Extension | 4 3/4" |
| Lift Cap Diameter | 2" |
| Wheel Diameter | 8" |
| Chassis Overall Length | 20" |
| Width at Wheels | 13-1/4" |
| Handle Length | 45" |
| Base Size | 8" x 17" |
| Max. Air Pressure Supply | 150 psi |
| Typical Operating Pressure | 125 - 150 psi |
| Typical Lift Time - Full Raise (20 ton, 150 psi) | 2 min. 15 sec |

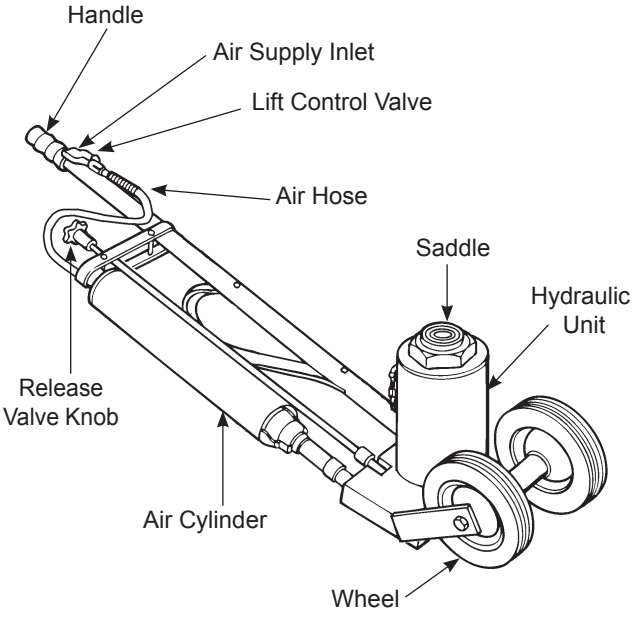



Figure 1 - Model HW93731 Nomenclature

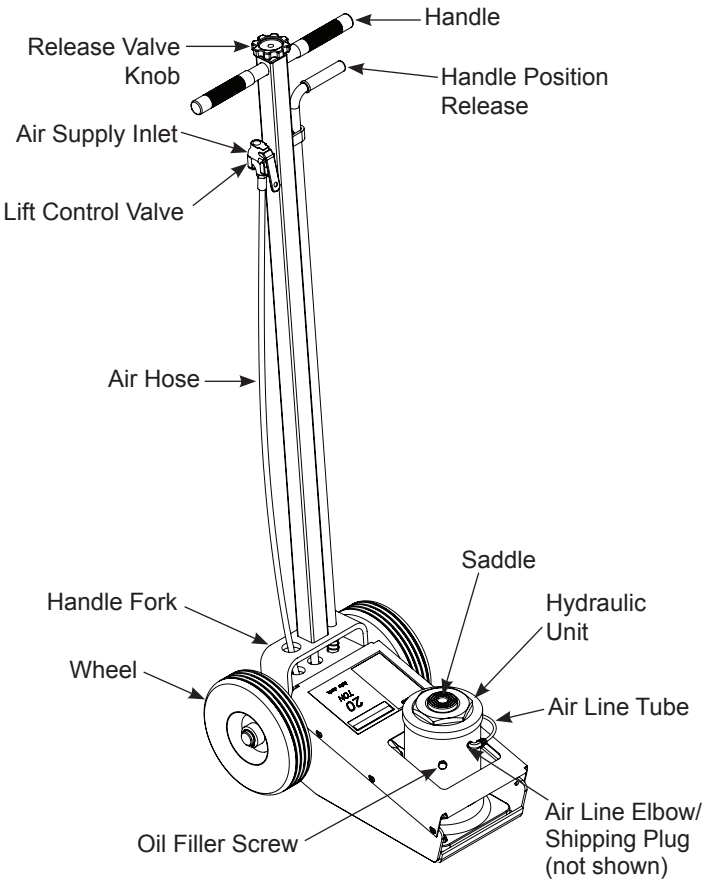
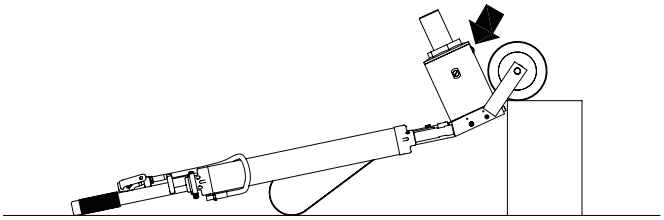



Figure 2 - Model HW93733 Nomenclature

# PREPARATION

1. Verify that the product and the application are compatible, if in doubt contact Hein-Werner Technical Service (816) 891-6390.
2. Read the operator's manual completely and familiarize yourself thoroughly with the product and its components, and recognize the potential hazards associated with its use before using this product.
3. To familiarize yourself with the basic operation of the jack, locate and turn the release valve knob:
   a. *Clockwise* until firm resistance is felt to further turning. This is the 'CLOSED' release valve position used to raise the load.
   b. *Counter-clockwise*, but no more than 1/2 full turn from the closed position. This is the 'OPEN' release valve position used to lower the load. The more you turn the release valve knob counter-clockwise, the faster the load descends.
4. Locate and remove the oil filler screw (ref. part #13 for Model HW93731, part #24 for Model HW93733, in replacement parts section) with ram fully retracted. This will help release any pressurized air which may be trapped within the reservoir. Check oil level. Proper oil level should be just below the rim of oil filler hole.



Model HW93731 Air Bleeding - Arrow indicates approximate Air Vent Screw location.

5. Reinstall oil filler screw.
6. For Model HW93733, remove the shipping plug and install with air line elbow to reservoir (ref. part #47 in replacement parts section).
7. Remove the plastic plug from air supply inlet and install a 1/4" PT air coupler (not provided). To ensure dependable, trouble free operation, an inline air dryer and oiler is recommended.

**NOTICE:** *Ensure that thread tape or compound is used when servicing connections.*

8. Pour a teaspoon of good quality air tool lubricant, such as #630-AAA Lubriplate, into the air supply inlet of the lift control valve. Connect to adequate air source and operate for 3 seconds to evenly distribute lubricant.
9. Ensure that jack rolls freely. Raise and lower the unloaded saddle throughout the lifting range before putting into service to ensure the pump operates smoothly. Replace worn or damaged parts with Hein-Werner replacement parts only. Lubricate as instructed in Maintenance Section.

# OPERATION

**Lifting**

**NOTICE:** *Loosen the filler screw before use.*

1. Connect air source to the air supply inlet.
2. Follow the vehicle manufacturer's recommended guidelines for lifting. Engage the emergency brake and chock each unlifted wheel in both directions to prevent inadvertent vehicle movement.
3. Locate and close the release valve by turning the release valve knob clockwise until firm resistance is felt.
4. Refer to the vehicle manufacturer owner's manual to locate approved lifting points on the vehicle. Center jack saddle under lift point.
5. Verify lift point, squeeze the lift control valve until saddle contacts load. To lift, continue squeezing the lift control. Release the grip on the lift control valve when load reaches desired height.
6. Immediately transfer the load to appropriately rated jack stands.

⚠ **WARNING:** *Overloading may cause hydraulic system failure*.

**Lowering**

⚠ **WARNING:** *Clear all tools and personnel before lowering vehicle. Open the release valve slowly. Maintain control of speed at which the load decends at all times.*

1. Raise load high enough to clear the jack stands; then remove jack stands.
2. Slowly turn release valve knob counter-clockwise, but no more than 1/2 turn. If the load fails to lower:
   a. Use another jack to raise the vehicle high enough to reinstall jack stands.
   b. Remove the malfunctioning jack and then jack stands.
   c. Using the non-malfunctioning jack, lower the load.
3. After removing jack from under load, push saddle down to reduce ram exposure to rust and contamination.

# MAINTENANCE

**NOTICE:** *Use only quality hydraulic jack fluid. Avoid mixing different types of fluid and never use brake fluid, turbine oil, transmission fluid, motor oil or glycerin. Improper fluid can cause failure of the jack and the potential for sudden and immediate loss of load. Hein-Werner hydraulic jack oil HW93291 or equivalent is recommended.*

**Adding Fluid**

1. With saddle fully lowered, set jack in its upright, level position. Locate and remove oil filler screw. It may be necessary to remove cover plate on model HW93733.
2. Fill with hydraulic fluid until just below the rim of the oil filler hole. Reinstall oil filler screw.

**Changing Fluid**

**NOTICE:** *For best performance and longest life, completely replace fluid supply annually.*

1. With saddle fully lowered, and pump piston fully depressed, remove oil filler screw. It may be necessary to remove cover plate on model HW93733.
2. Lay the jack on its side and drain the fluid into a suitable container.

**NOTICE:** *Dispose of hydraulic fluid in accordance with local environmental regulations.*

3. Set jack in its level, upright position and fill with fluid until just below the rim of the oil filler hole. Reinstall the oil filler screw.

**Lubrication**

1. A periodic coating of light lubricating oil to pivot points, axles and hinges will help to prevent rust and assure that wheels move freely and the pump functions smoothly.
2. When used on a daily basis, air pump should be internally lubricated before each use. Use only good quality air tool lubricant such as #630 - AAA Lubriplate. If no inline oiler is used, pour a teaspoon of air tool oil into the inlet of the air control valve. Simply operate the jack using the air feature in order to fully distribute the oil.

**Cleaning**

Periodically inspect the ram for signs of rust or corrosion. Clean as needed and wipe with an oily cloth.

**NOTICE:** *Never use sandpaper or abrasive material on these surfaces.*

**Storage**

When not in use, store the jack with ram fully retracted.

## REPLACEMENT PARTS

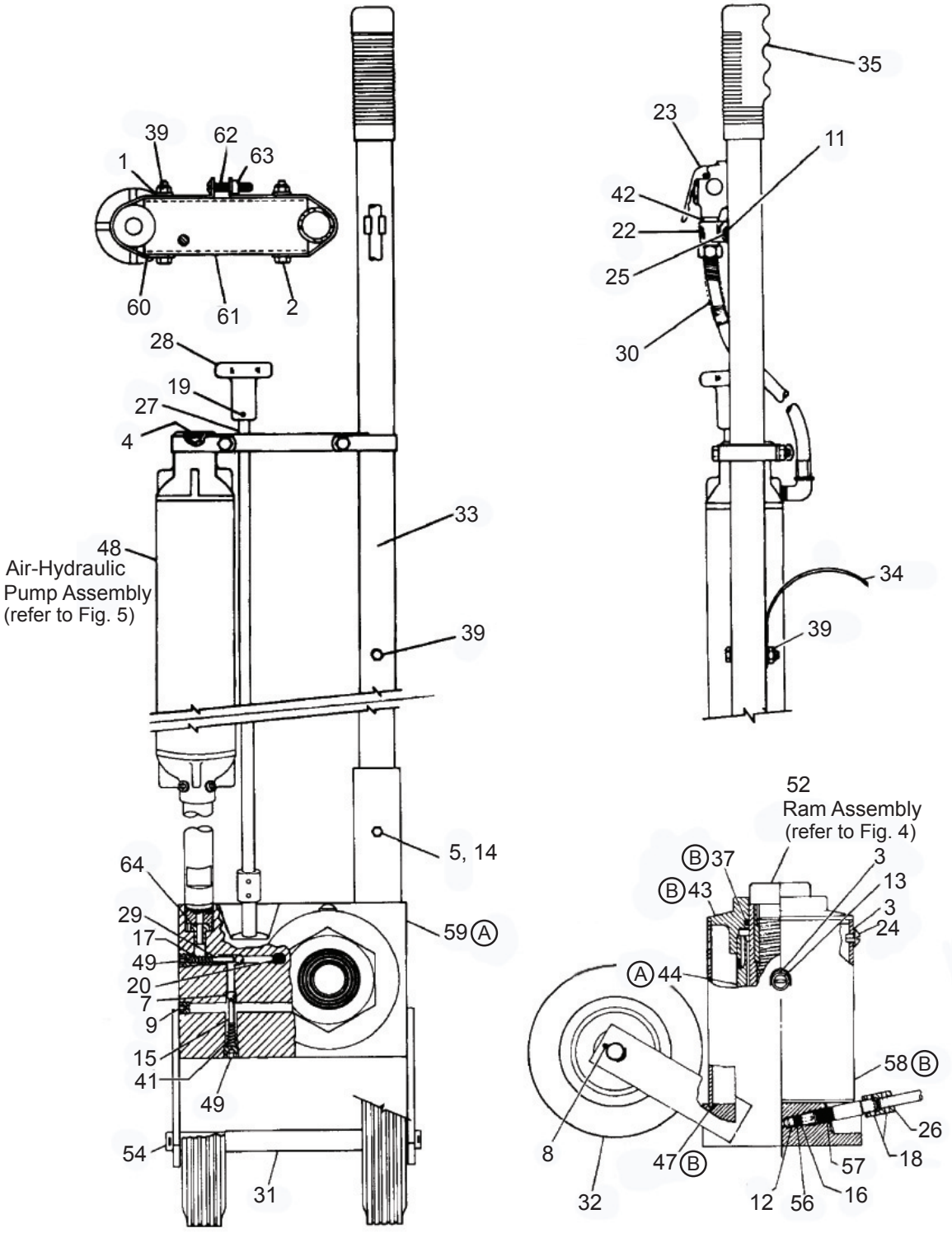
(refer to page 6 thru 11)

Not all components of the jack are replacement items, but are illustrated as a convenient reference of location and position in the assembly sequence. When ordering parts, give model number, part number and part description. Call or write for current pricing: Hein-Werner Customer Support, 10939 N. Pomona Ave., Kansas City, MO 64153. Phone: (816) 891-6390; E-mail: customerservices@heinwerner-automotive.com

## TROUBLESHOOTING

| Symptom | Possible Causes | Corrective Action |
|---|---|---|
| Jack will not lift load | • Release valve not tightly closed<br>• Overload condition<br>• Air supply inadequate | • Ensure release valve tightly closed<br>• Remedy overload condition<br>• Ensure adequate air supply |
| Jack will lift, but not maintain pressure | • Release valve not tightly closed<br>• Overload condition<br>• Hydraulic unit malfunction | • Ensure release valve tightly closed<br>• Remedy overload condition<br>• Contact Tech. Service |
| Jack will not lower after unloading | • Reservoir overfilled<br>• Linkage binding | • Ensure load is removed, then drain fluid to proper level<br>• Clean and lubricate moving parts |
| Poor lift performance | • Fluid level low<br>• Air trapped in system | • Ensure proper fluid level<br>• With saddle fully lowered, remove oil filler plug to let pressurized air escape, then reinstall oil filler plug |
| Jack will not lift to full extension | • Fluid level low | • Ensure proper fluid level |

**Replacement Parts Illustration For Model HW93731 (Part I)** - ref page 8 for parts list




Ⓐ Apply Never-Seez (or equivalent) to threads and face at both ends of Ram Cylinder (ref part #44) before assembling. Assemble to Base (part #59) and tighten to crush fit.

Ⓑ Lubricate O-rings (part #37 & 47), Tank Nut (part #43), and upper & lower of Oil Tank (part #58) with lubriplate (or comparable lubricant) before assembling. Tighten to a crush fit.

Figure 3 - Parts Illustration for Model HW93731 - Main

## Replacement Parts Illustration For Model HW93731 (Part II) - ref page 8 for parts list

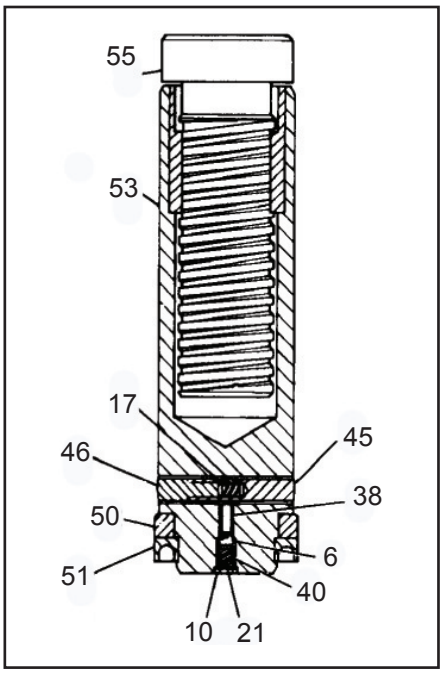



Figure 4 - Parts Illustration for Model HW93731 -Ram Assembly

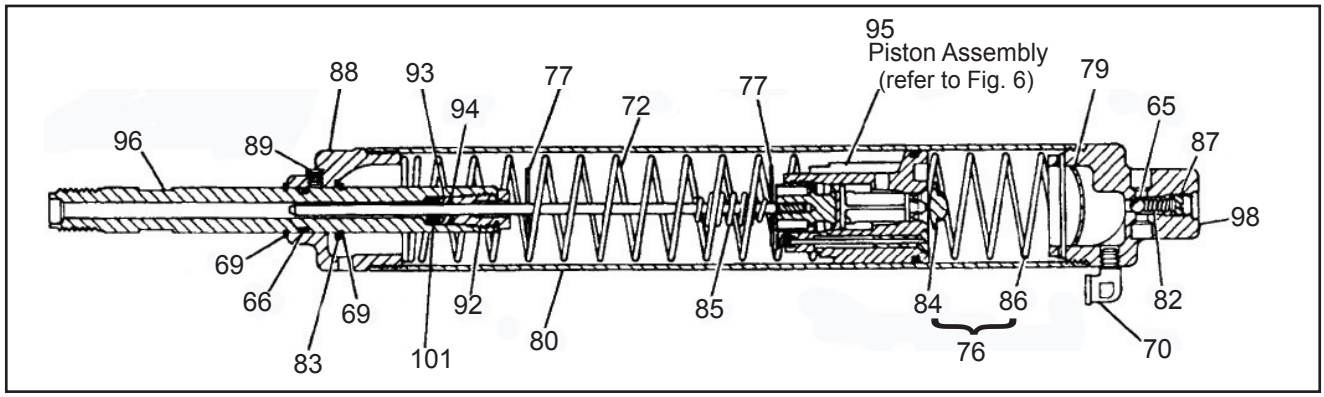



Figure 5 - Parts Illustration for Model HW93731 -Air Hydraulic Pump Assembly

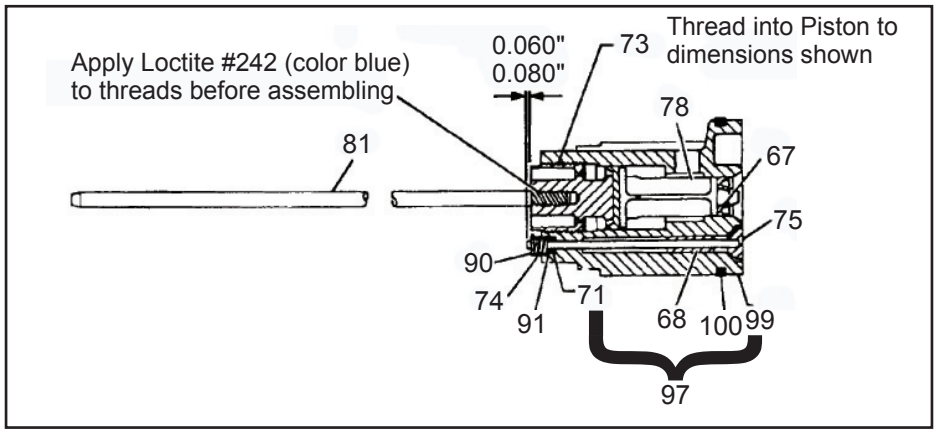



Figure 6 - Parts Illustration for Model HW93731 -Pump Piston Assembly

## Replacement Parts List For Model HW93731 - ref pages 6 & 7 for parts drawing

| Item | Part No. | Description | Qty |
|---|---|---|---|
| 1 | 48230 | Washer | 2 |
| 2 | 50062 | Bolt | 2 |
| 3* | 200003 | Gasket | 2 |
| 4 | 201733 | Expansion Plug | 1 |
| 5 | 201787 | Lockwasher | 1 |
| 6* | 203199 | Ball | 1 |
| 7* | 203202 | Ball | 3 |
| 8 | 204446 | Cotter Pin | 2 |
| 9 | 210311 | Pipe Plug | 1 |
| 10 | 210411 | Washer | 1 |
| 11 | 211737 | Lockwasher | 1 |
| 12 | 212227 | Poppet Release Valve | 1 |
| 13 | 212540 | Filler Screw | 1 |
| 14 | 212566 | Bolt | 1 |
| 15 | 213728 | Spacer | 1 |
| 16* | 214555 | O-ring | 1 |
| 17 | 216647 | Spring | 2 |
| 18 | 217649 | Roll Pin | 2 |
| 19 | 217898 | Roll Pin | 1 |
| 20 | 222533 | Screen | 1 |
| 21 | 223166 | Screen | 1 |
| 22 | 223172 | Hose Clip | 1 |
| 23 | 351000 | Air Valve | 1 |
| 24 | 212562 | Air Vent Screw | 1 |
| 25 | 224081 | Screw | 1 |
| 26 | 224164 | Adapter | 1 |
| 27 | 224165 | Rod | 1 |
| 28 | 224166 | Hand Knob | 1 |
| 29 | 224180 | Spacer | 1 |
| 30 | 224182 | Air Hose | 1 |
| 31 | 224472 | Spacer | 1 |
| 32 | 224475 | Wheel | 2 |
| 33 | 224521 | Handle | 1 |
| 34 | 224640 | Balance Strap | 1 |
| 35 | 224641 | Handle Grip | 1 |
| 36 | 224644 | Bolt | 3 |
| 37* | 224648 | O-ring | 1 |
| 38 | 225483 | Pin | 1 |
| 39 | 226019 | Hex Locknut | 5 |
| 40 | 226331 | Spring | 1 |

| Item | Part No. | Description | Qty |
|---|---|---|---|
| 41 | 226401 | Spring | 2 |
| 42 | 226483 | Pipe nipple | 1 |
| 43 | 227136 | Tank Nut | 1 |
| 44 | 227533 | Ram Cylinder | 1 |
| 45 | 228090 | Cross pin | 1 |
| 46 | 228091 | Cross pin | 1 |
| 47 | 228099 | O-ring | 1 |
| 48 | 228929 | Air-hydraulic Pump Assy. | 1 |
| 49 | 229131 | Pipe Plug | 2 |
| 50 | 230125 | Heel Plate | 1 |
| 51 | 230126 | U-cup Packing | 1 |
| 52 | 230134 | Ram Assembly | 1 |
| 53 | 245958 | Ram | 1 |
| 54 | 231102 | Axle | 1 |
| 55 | 232618 | Extension Screw Assy. | 1 |
| 56* | 233917 | Plastic Spring | 1 |
| 57 | 233922 | Release Stem | 1 |
| 58 | 234933 | Oil tank | 1 |
| 59 | 234935 | Base | 1 |
| 60 | 234990 | Strap | 2 |
| 61 | 234999 | Support Bracket | 1 |
| 62 | 236717 | Screw | 1 |
| 63 | 236718 | Nut | 1 |
| 64 | 242876 | Bushing | 1 |
| 65 | 203202 | Ball | 1 |
| 66*# | 219861 | O-ring | 1 |
| 67*# | 221013 | U-cup Packing | 1 |
| 68 | 221377 | Roll Pin | 1 |
| 69 | 221820 | Retaining Ring | 2 |
| 70 | 222202 | Elbow | 1 |
| 71*# | 222288 | O-ring | 1 |
| 72 | 223173 | Return Spring | 1 |
| 73 | 223183 | Plug | 1 |

| Item | Part No. | Description | Qty |
|---|---|---|---|
| 74 | 223184 | Spring | 1 |
| 75# | 223187 | Valve & Plunger | 1 |
| 76 | 223194 | Spring & Rubber Cushing | 1 |
| 77 | 223203 | Trip Washer | 2 |
| 78 | 223678 | Pump Packing & Piston | 1 |
| 79 | 223680 | Screen | 1 |
| 80 | 224034 | Air Cylinder | 1 |
| 81 | 224038 | Pump Rod | 1 |
| 82 | 224156 | Spring | 1 |
| 83 | 224469 | Washer | 1 |
| 84 | 225371 | Grommet | 1 |
| 85 | 225384 | Trip Spring | 1 |
| 86 | 226153 | Spring | 1 |
| 87 | 226373 | Adjusting Screw | 1 |
| 88 | N/A | End Block | 1 |
| 89 | 226451 | Set Screw | 2 |
| 90 | 228235 | Cotter Pin | 1 |
| 91 | 228813 | Washer | 1 |
| 92 | 228814 | Gland Unit | 1 |
| 93*# | 228815 | U-cup Packing | 1 |
| 94 | 228816 | Washer | 1 |
| 95 | 228930 | Piston Assembly | 1 |
| 96 | 228933 | Pump Cylinder | 1 |
| 97 | 231347 | Piston & Roll Pin Assembly | 1 |
| 98 | N/A | Cylinder Cap | 1 |
| 99 | 236684 | Piston | 1 |
| 100 | 236685 | Sealing Ring | 1 |
| 101 | 242877 | Bushing | 1 |
| (*) | 240579 | Repair Kit | - |
| (#) | 240564 | Air Hyd. Pump Repair Kit | - |

(*) indicates items included in Repair Kit 240579
(#) indicates items included in Repair Kit 240564

**Replacement Parts Illustration For Model HW93733 (Part I)** - ref page 11 for parts list

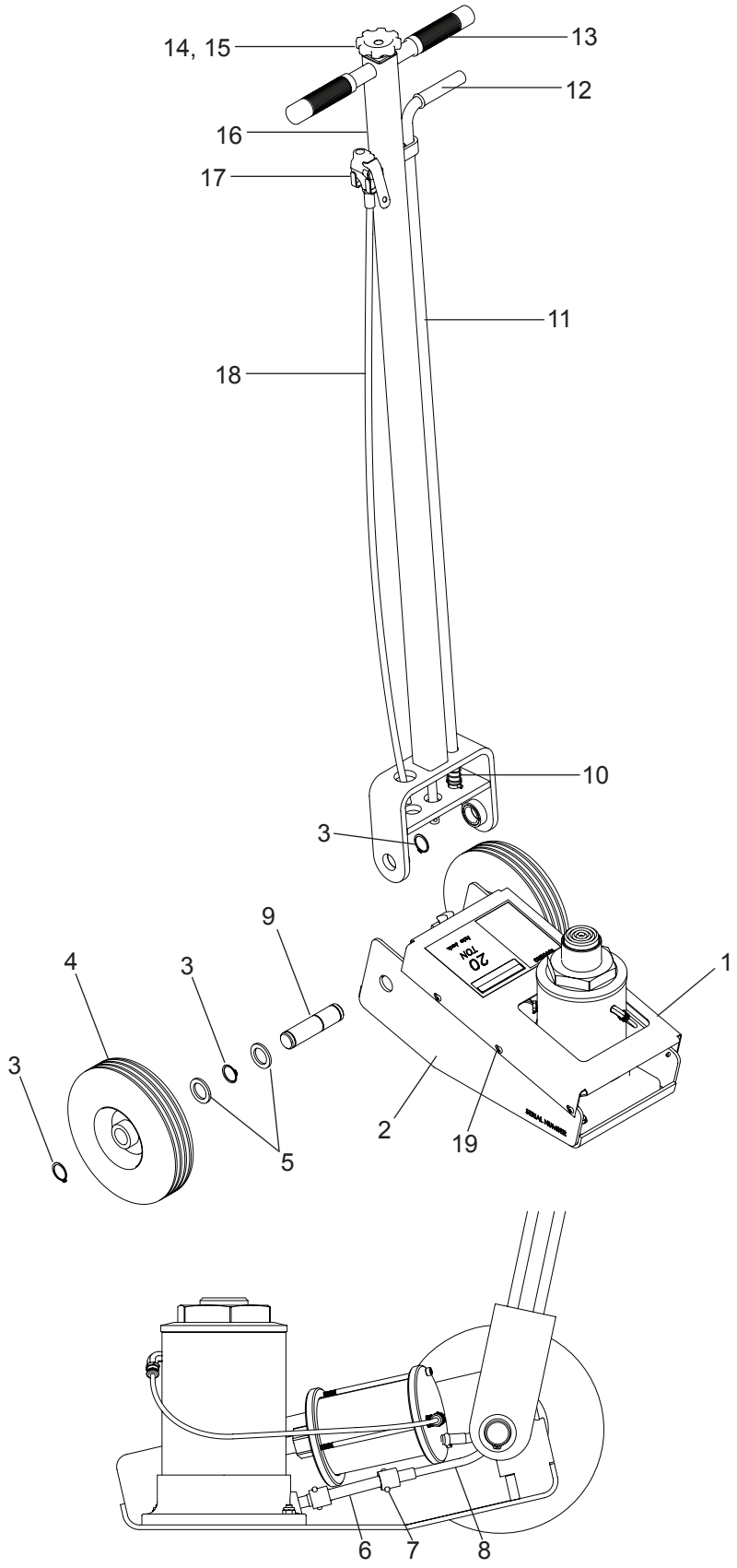
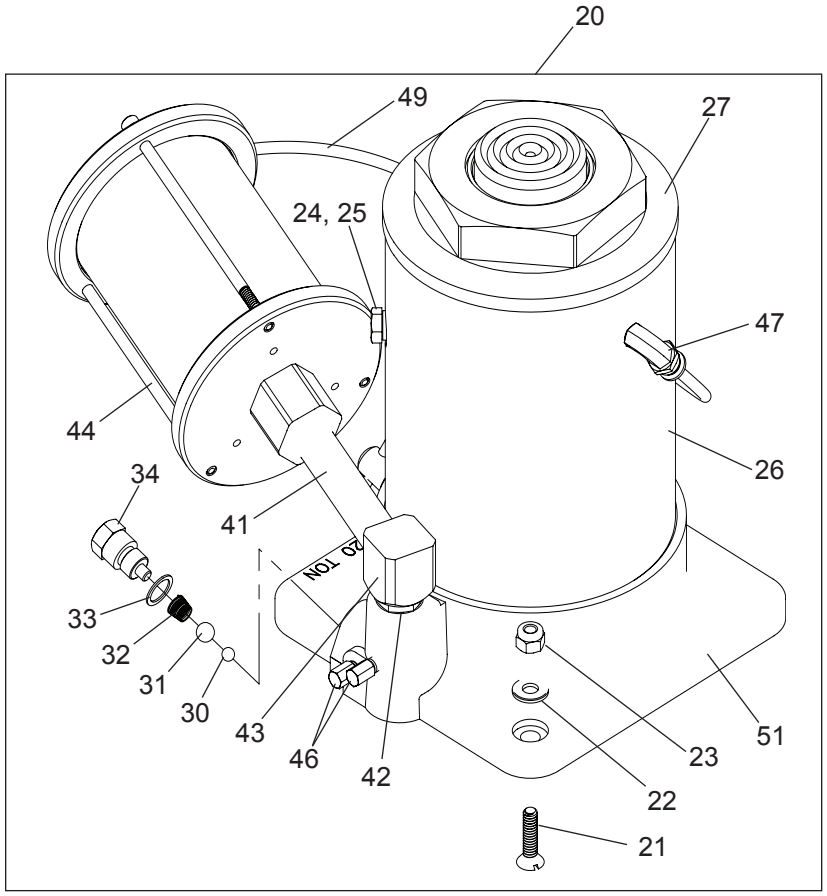
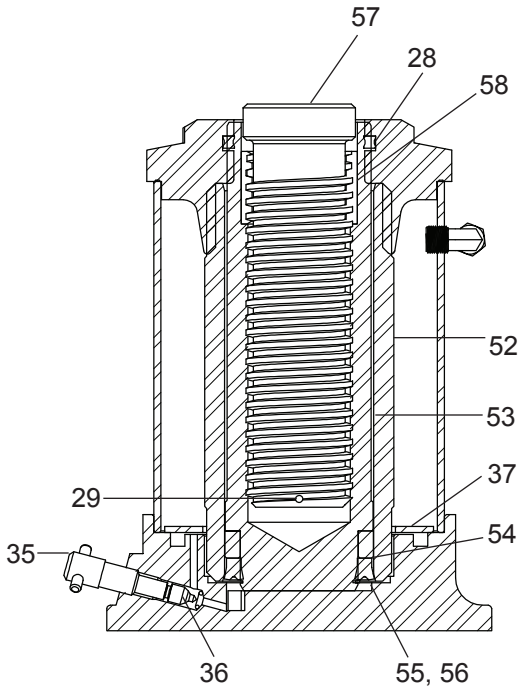


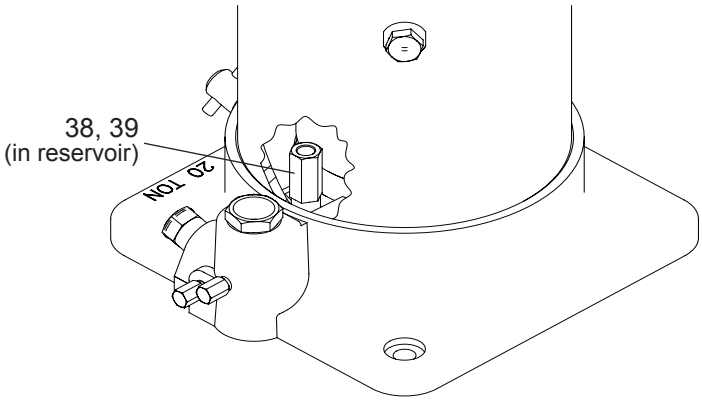

Figure 7 - Parts Illustration for Model HW93733 - Main Frame

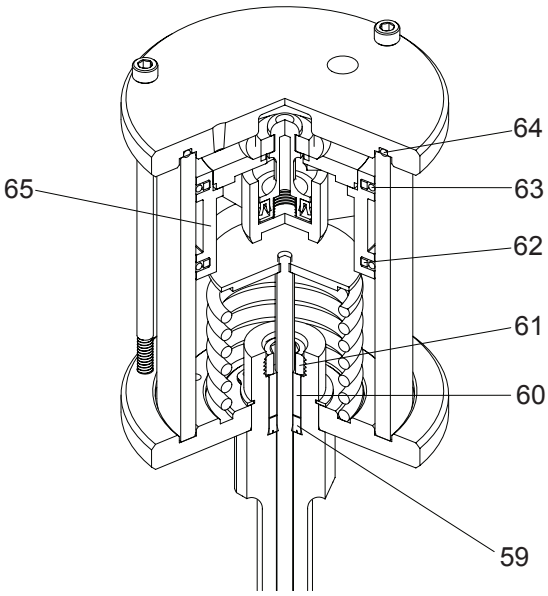
## Replacement Parts Illustration For Model HW93733 (Part II) - ref page 11 for parts list




**Hydraulic Unit Assembly (includes Air Motor)**




**Model HW93733 Air Motor**

Figure 8 - Parts Illustration for Model HW93733 - Air Motor & Hydraulic Unit

## Replacement Parts List For Model HW93733 - ref pages 9 & 10 for parts drawings.

| Item | Part No. | Description | Qty |
|---|---|---|---|
| 1 | BK210980SF | Top Cover | 1 |
| 2 | BJ511626SF | Frame Weldment | 1 |
| 3 | BB557523SF | Retaining ring, .94D | 6 |
| 4 | BE587106 | Wheel, Rubber 8 x 2.5 | 2 |
| 5 | 85004016SF | Axle Thrust Washer, 1 ID | 2 |
| 6 | BK901038SF | Release Valve Adapter | 1 |
| 7 | 23521011 | Pin, 3/16D | 2 |
| 8 | 85004024 | Flex Shaft | 1 |
| 9 | BJ395104SF | Wheel Axle 1 x 4-1/8L | 2 |
| 10 | 23314012SF | Handle Release Spring | 1 |
| 11 | 85002007SF | Release Rod | 1 |
| 12 | H0933000 | Handle Grip, Release Rod | 1 |
| 13 | 23220001 | Handle Grip | 2 |
| 14 | 23220094SF | Knob, Release Valve | 1 |
| 15 | 23521011SF | Pin, Knob 3/16 x 1-1/8L | 1 |
| 16 | 85001011SF | Handle Assembly | 1 |
| 17 | 1-312-00002 | Air Valve, 1/4NPT | 1 |
| 18 | BJ354646 | Air Hose, 1/4 ID | 1 |
| 19 | SJ100374 | Screw, Phillips | 6 |
| 20 | 90000352SF | Jack & Air Motor Assy. | 1 |
| 21 | BJ318028 | Screw, Flat | 2 |
| 22 | BD215108 | Washer, 1/4 | 2 |
| 23 | SJ100079 | Nut, Hex 1/4-20UNC | 2 |
| 24* | AJ100060 | Filler Screw | 1 |
| 25* | AJ100020 | Gasket, 15/32OD | 1 |
| 26 | BJ389025 | Reservoir | 1 |
| 27 | BJ398020 | Top Cap | 1 |
| 28* | NJ100046 | Quad ring | 1 |
| 29 | BD674061 | Pin, 1/8 x 9/16L | 1 |
| 30* | B1160000 | Ball, 7/32 | 1 |
| 31* | BS116000 | Ball, 5/16 | 1 |

| Item | Part No. | Description | Qty |
|---|---|---|---|
| 32* | AJ100040 | Valve Spring | 1 |
| 33* | BB159167 | Gaket, 19/32OD | 1 |
| 34* | BK300600 | Valve Plug | 1 |
| 35 | BK490010 | Release Spindle | 1 |
| 36* | AJ100312 | O-ring, 3/16ID | 1 |
| 37 | BK810800 | Washer, 4-5/8OD | 1 |
| 38 | BK876900 | Relief Valve | 1 |
| 39 | BS303700 | Washer, 3/8OD, 17/64ID | 1 |
| 40 | BJ790096 | Nipple, 1/8 NPT | 1 |
| 41 | BK729200SF | Adapter, Air Motor | 1 |
| 42 | BJ580096 | Pump Nipple | 1 |
| 43 | BK729100SF | Elbow, 78° | 2 |
| 44 | 928456 | Air Motor | 1 |
| 45 | BJ788039 | Bushing | 1 |
| 46 | B1060100 | Plug, Hex 1/4-28UNF | 2 |
| 47 | BJ990096 | Male Elbow, 90°, 1/8MPT | 2 |
| 48 | N/A | | |
| 49 | BJ649268 | Tube, 1/4OD x 16L | 1 |
| 50 | BJ479096 | Street Elbow, 90° | 1 |
| 51 | N/A | Base | 1 |
| 52 | BJ390030 | Cylinder | 1 |
| 53 | 21100488 | Plunger | 1 |
| 54* | 36400011 | Bearing | 1 |
| 55* | 248428 | U-cup, 2.5 x 2 x .38 | 1 |
| 56* | 30600031 | Retaining Ring | 1 |
| 57 | BJ382028 | Adj, Screw | 1 |
| 58 | BJ385446 | Plunger Sleeve | 1 |
| (*) | B7002000 | Repair Kit | - |

(*) indicates items included in Repair Kit B7002000

## Replacement Parts List For Model HW93733 Air Motor - ref page 10

| Item | Part No. | Description | Qty |
|---|---|---|---|
| 59 | 928464 | U-cup | 1 |
| 60 | 928463 | Brass Bushing | 1 |
| 61 | 928467 | Hollow-Lock Set Screw | 1 |
| 62 | 928449 | Air Piston Square O-ring | 2 |
| 63 | 928452 | Air Piston O-ring | 2 |
| 64 | 928453 | O-ring | 1 |

| Item | Part No. | Description | Qty |
|---|---|---|---|
| 65* | 928469 | Air Piston Assembly | 1 |
| 66** | 928468 | Seal Kit | 1 |

* Includes complete Air Piston assembly with O-rings 62 and 63

** Includes Part Numbers 59, 60, 61, 62, 63 and 64

## TWO YEARS LIMITED WARRANTY

For a period of two (2) years from date of purchase, SFA Companies will repair or replace, at its option, without charge, any of its products which fails due to a defect in material or workmanship under normal usage. This limited warranty is a consumer's exclusive remedy.

Performance of any obligation under this warranty may be obtained by returning the warranted product, freight prepaid, to SFA Companies Warranty Service Department, 10939 N. Pomona Ave., Kansas City, MO 64153.
Except where such limitations and exclusions are specifically prohibited by applicable law:

(1) THE CONSUMER'S SOLE AND EXCLUSIVE REMEDY SHALL BE THE REPAIR OR REPLACEMENT OF DEFECTIVE PRODUCTS AS DESCRIBED ABOVE
(2) SFA COMPANIES SHALL NOT BE LIABLE FOR ANY CONSEQUENTIAL OR INCIDENTAL DAMAGE OR LOSS WHATSOEVER.
(3) ANY IMPLIED WARRANTIES, INCLUDING WITHOUT LIMITATION THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE, SHALL BE LIMITED TO TWO YEARS, OTHERWISE THE REPAIR, REPLACEMENT OR REFUND AS PROVIDED UNDER THIS EXPRESS LIMITED WARRANTY IS THE EXCLUSIVE REMEDY OF THE CONSUMER, AND IS PROVIDED IN LIEU OF ALL OTHER WARRANTIES, EXPRESS OR IMPLIED.
(4) ANY MODIFICATION, ALTERATION, ABUSE, UNAUTHORIZED SERVICE OR ORNAMENTAL DESIGN VOIDS THIS WARRANTY AND IS NOT COVERED BY THIS WARRANTY.

Some states do not allow limitations on how long an implied warranty lasts, so the above limitation may not apply to you. Some states do not allow the exclusion or limitation of incidental or consequential damages, so the above limitation or exclusion may not apply to you. This warranty gives you specific legal rights, and you may also have other rights which vary from state to state.

SFA Companies
10939 N. Pomona Ave. Kansas City, MO 64153
816-891-6390
customerservices@heinwerner-automotive.com