BESTWAY IN-GROUND HYDRAULIC LIFTS

IN-GROUND LIFT
Catalog No. 106HA-24H
(Hinged platform allows easy removal of rear wheel)

These heavy-duty, smooth operating air/hydraulic (air over oil) motorcycle lifts can be rotated 360° and incorporate a choice of 5" or 6-1/2" diameter pistons. Lifting capacity is 1,200 lbs. for 5" and 1,800 lbs. for 6-1/2" pistons, at 125 psi air pressure.

All units are easily installed in a minimum amount of space and require a 56" deep hole. Minimum height is 3"; maximum rise above floor is 36", (48" optional rise available). All units come complete with a three-way air valve - simply attach your air-line to operate.

Air/Hydraulic lifts with platform

The platform on each of the three lifts in the table below is large enough to contact both bike tires, and each platform is hinged toward the rear. The first two lifts have a slideable front plate which can extend the platform to a maximum of 76". The third lift does not have a slideable front plate and is a fixed platform length of 92".

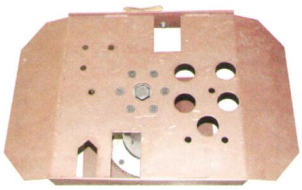
Catalog No.	Piston Diameter	Platform Length	Platform Width	Capacity
106HA-24H	6-1/2"	76"	24"	1800 lbs.
106HA-30H	6-1/2"	76"	30"	1800 lbs.
106HA-30XL	6-1/2"	92"	30"	1800 lbs.
106HA-48H	6-1/2"	76"	48"	1800 lbs.

Air/Hydraulic lifts without platform (Frame Contact)

For Harley-Davidson and other motorcycles that allow frame contact, a special version is available in either 5" or 6-1/2" piston diameters (Catalog No's. 5SPCH & 6SPCH) with a pre-drilled top designed to secure the motorcycle frame directly to the top of the lift with "J" bolts. Additional hole in plate provides access to bottom of engine.

Bestway lifts are also available "topless" so you can add a top plate of your own design (Catalog No's. 5SP & 6SP). You can also add a platform of your own to the 5SPC & 6SPC lifts by welding or bolting the platform to the 1/4" thick steel plate provided.

Catalog No.	Piston Diameter	Top Plate Dimensions	Application	Capacity
5SP	5"	N/A	Add your platform	1200 lbs.
5SPC	5"	18" x 18"	Harley-Davidson service	1200 lbs.
5SPCH	5"	18" x 18"*	Harley-Davidson service	1200 lbs.
6SP	6-1/2"	N/A	Add your platform	1800 lbs.
6SPC	6-1/2"	18" x 18"	Harley-Davidson service	1800 lbs.
6SPCH	6-1/2"	18" x 18"*	Harley-Davidson service	1800 lbs.



Catalog No. CH-PH
Additional Top Plate Choice for Harley-Davidson 18" x 18" plus 6" ramps*

FRAME CONTACT IN-GROUND LIFT
Catalog No. 6SPCH

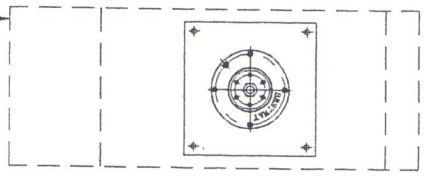
*Each lift is supplied standard with air valve mounted on side as shown. Other options include a remote control air valve that allows you to locate the valve anywhere in your shop and an optional non-rotating feature that eliminates the lift from spinning. Phone The Carlson Company for details if a "remote control" or "non-rotating" feature is desired.

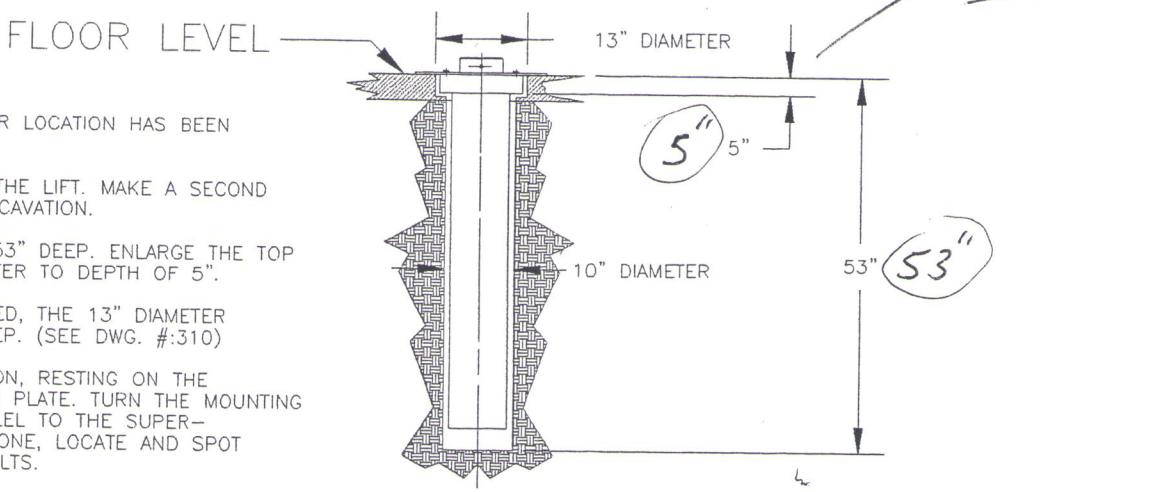
(1)

BESTWAY
6-1/2" MOTORCYCLE LIFT

DOC. NO: BHI-6-1-INSTALLATON INSTRUCTIONS

TOP VIEW → SUPERSTRUCTURE SHOWN IN HIDDEN LINES





1. MAKE SURE THAT THE PROPER LOCATION HAS BEEN SELECTED.
2. LAYOUT THE CENTERLINE OF THE LIFT. MAKE A SECOND LOCATION CHECK BEFORE EXCAVATION.
3. DIG AN 10" DIAMETER HOLE 53" DEEP. ENLARGE THE TOP OF THE HOLE TO 13" DIAMETER TO DEPTH OF 5".

NOTE: IF A P.V.C. CASING IS USED, THE 13" DIAMETER HOLE SHOULD BE 53" DEEP. (SEE DWG. #:310)

4. LOWER CYLINDER INTO POSITION, RESTING ON THE 17-1/2"x17-1/2" MOUNTING PLATE. TURN THE MOUNTING PLATE, SO THAT IT IS PARALLEL TO THE SUPER-STRUCTURE. WHEN THIS IS DONE, LOCATE AND SPOT THE HOLES FOR THE LAG BOLTS.
5. REMOVE THE CYLINDER FROM THE HOLE.
6. DRILL FOR THE INSERT THE SLEEVES FOR THE LAG BOLTS.
7. PUT CYLINDER BACK INTO THE HOLE. LINE UP THE MOUNTING PLATE HOLES WITH THE CONCRETE SLEEVES AND BOLT INTO POSITION.

NOTE: IF A P.V.C. CASING IS USED, DROP IT IN, BEFORE INSTALLING THE CYLINDER.

8. REMOVE THE OIL FILL PLUG FROM THE PISTON HEAD. (USE A 1-1/2" RING SPANNER OR SOCKET) OPEN THE BLEEDER VALE, LOCATED IN THE PACKING GLAND. (USE A REGULAR FLAT SCREW DRIVER)

   FILL THE CYLINDER WITH SAE 30W NON-DETERGENT MOTOR OIL, UNTIL THE ENTRAPPED AIR IS FULLY EVACUATED FROM THE CYLINDER AND A STEADY STREAM OF OIL IS COMING OUT FROM THE BLEEDER VALVE.

   → OR AW32 HYD. OIL

   CLOSE BLEEDER VALVE.
   CHECK THE OIL LEVEL - IT SHOULD BE ABOUT 1-3/4" BELOW THE BOTTOM OF THE PISTON HEAD. TOP OFF IF NECESSARY.
   REINSTALL THE FILL PLUG. MAKE SURE THAT THE PLASTIC WASHER IS CORRECTLY SEATED BELOW THE FILL PLUG
   DO NOT USE AIR-DRIVEN TOOLS !!!
   THE OIL CAPACITY IS ABOUT 9.5 GALLONS.

9. MOUNT SUPERSTRUCTURE TO THE TOP OF THE CYLINDER WITH (6) 1/2"-13 UNC x 1-3/4" LONG BOLTS PROVIDED.
10. ASSEMBLE AIR LINE EXTENSION TO PISTON, SO THAT PIPE EXTENDS OUT OF THE SUPERSTRUCTURE. MOUNT AIR VALVE TO PIPE EXTENSION. (ANGLE SUPPORT.)
11. USING QUICK COUPLING ADAPTERS, CONNECT THE AIR HOSE TO THE AIR VALVE.
    AIR VALVE MUST BE "DEAD MAN" TYPE.
12. RAISE THE LIFT SLOWLY, CONTROL THE SPEED BY METERING THE AIR THROUGH THE AIR VALVE.
13. WHEN LIFT IS IN RAISED POSITION, BLEED THE ENTRAPPED AIR OUT OF THE CYLINDER. THIS IS DONE, WITH A FLAT HEAD SCREWDRIVER AND TURNING THE TOP OF THE BLEEDER VALVE IN COUNTER CLOCKWISE DIRECTION, UNTIL A STEADY FLOW OF OIL COMES OUT FROM THE BLEEDER VALVE. CLOSE THE BLEEDER VALVE, IN CLOCKWISE DIRECTION.
14. EXHAUST THE AIR VALVE, FULLY LOWER THE SUPER-STRUCTURE AND TOP OFF TO CORRECT LEVEL.
    WHEN PERFORMING TOPPING OFF, THE AIR SUPPLY MUST BE FULLY DISCONNECTED AND THE LIFT MUST BE DEPRESSURIZED BY EXHAUSTING THE AIR VALVE !!!
15. REPEAT OPERATIONS 12 THROUGH 14 SEVERAL TIMES TO MAKE SURE ALL THE ENTRAPPED AIR IS RELEASED. TOP OFF, WITH OIL, TO CORRECT LEVEL IF NECESSARY.
16. RECHECK ALL BOLTS, PIPES AND VALVE CONNECTIONS. MAKE SURE THAT THE SUPERSTRUCTURE IS TIGHT.

WHEN ALL THIS IS DONE, THE LIFT IS READY FOR SERVICE.

THE CARLSON COMPANY
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PO Box 80897 Rancho Santa Margarita, CA 92688
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REVISED EDITION JAN. 98

BESTWAY
6-1/2" MOTORCYCLE LIFT

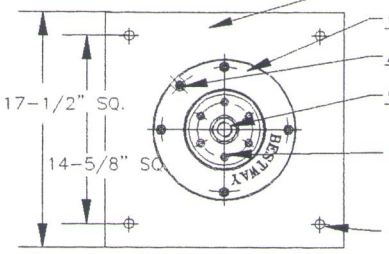
DOC. NO: BHI-6-1-INSTALLATON INSTRUCTIONS

GLOSSARY OF TERMS AND DIMENSIONS

THIS DOCUMENT IS PART OF BESTWAY DWG.NO: 310

WARNING !!!

NEVER OPERATE THIS LIFT UNDER AIR PRESSURE ALONE!!! DANGER TO LIFE AND DAMAGE TO EQUIPMENT MAY OCCUR.



MOUNTING PLATE

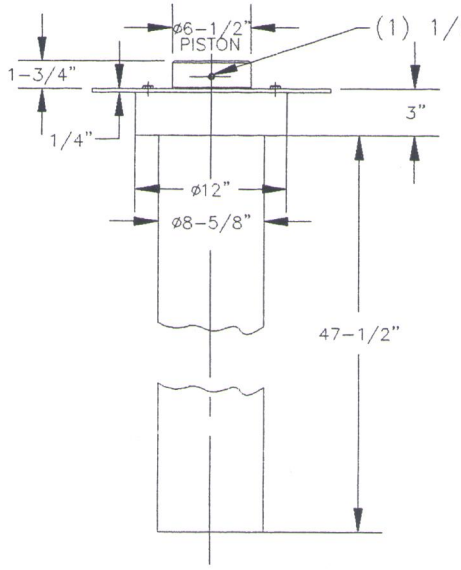
GLAND RING

AIR BLEED VALVE (SLOTTED HEAD FOR SCREWDRIVER)

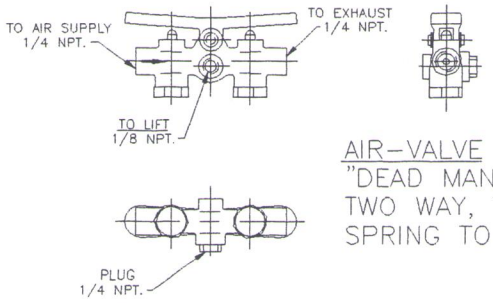
OIL FILL PLUG (1-1/2" OVER FLATS)

(6) 1/2-13 UNC, THR'D HOLES EQUALLY SPACED ON ø4.500 B.C.

(4) ø5/8 HOLES ,THRU PLATE LOCATION AS SHOWN.



(1) 1/8" NPT THR'D - INLET - TO AIR VALVE



AIR-VALVE
"DEAD MAN" TYPE
TWO WAY, THREE POSITION
SPRING TO CLOSE-CENTER

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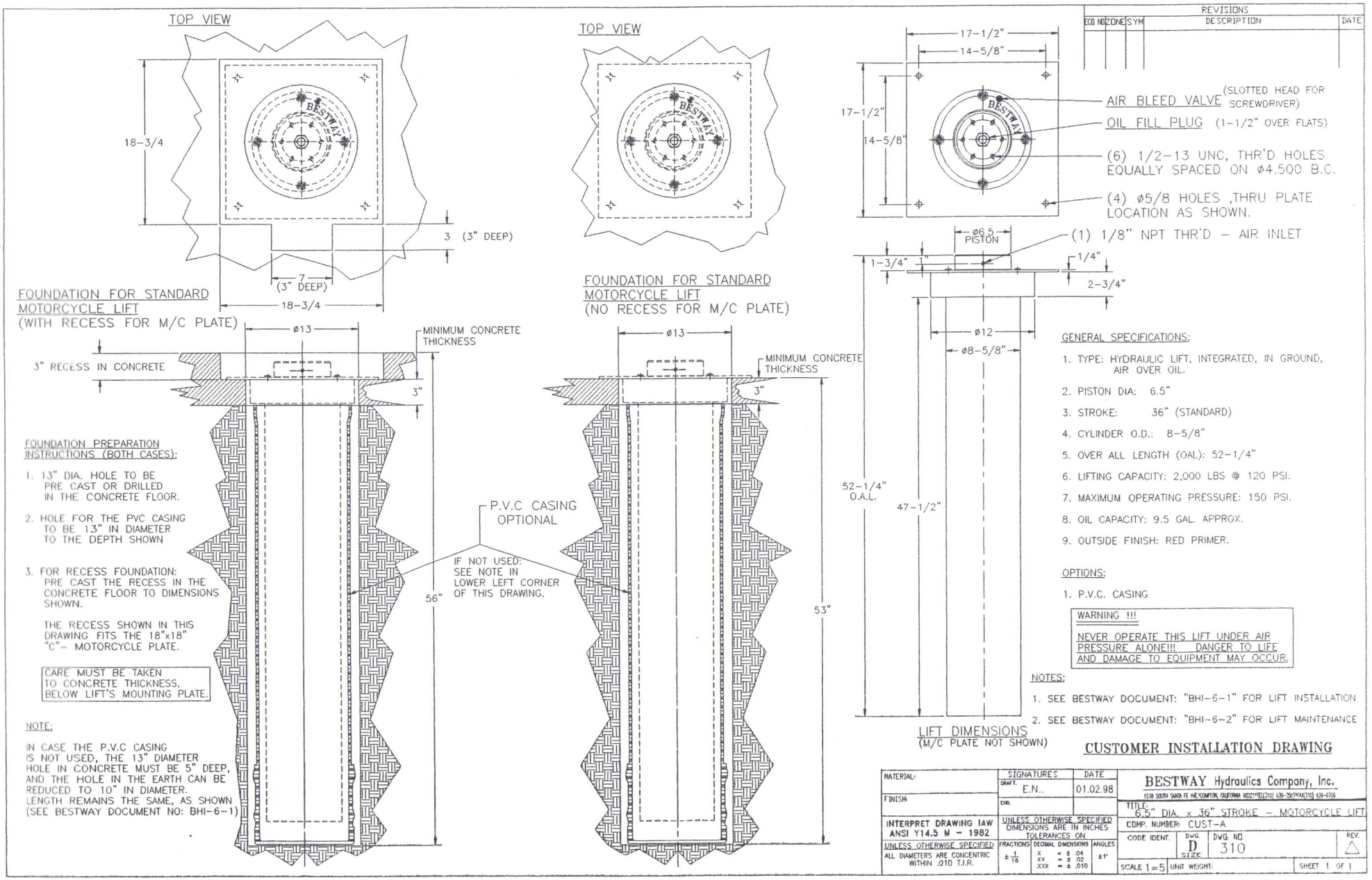

REVISIONS				
ECO NO	ZONE	SYM	DESCRIPTION	DATE

GENERAL SPECIFICATIONS:

1. TYPE: HYDRAULIC LIFT, INTEGRATED, IN GROUND, AIR OVER OIL.
2. PISTON DIA: 6.5"
3. STROKE: 36" (STANDARD)
4. CYLINDER O.D.: 8-5/8"
5. OVER ALL LENGTH (OAL): 52-1/4"
6. LIFTING CAPACITY: 2,000 LBS @ 120 PSI.
7. MAXIMUM OPERATING PRESSURE: 150 PSI.
8. OIL CAPACITY: 9.5 GAL. APPROX.
9. OUTSIDE FINISH: RED PRIMER.

OPTIONS:

1. P.V.C. CASING

WARNING !!!
NEVER OPERATE THIS LIFT UNDER AIR PRESSURE ALONE!!! DANGER TO LIFE AND DAMAGE TO EQUIPMENT MAY OCCUR.

NOTES:

1. SEE BESTWAY DOCUMENT: "BHI-6-1" FOR LIFT INSTALLATION
2. SEE BESTWAY DOCUMENT: "BHI-6-2" FOR LIFT MAINTENANCE

CUSTOMER INSTALLATION DRAWING

MATERIAL:	SIGNATURES	DATE	BESTWAY Hydraulics Company, Inc.
FINISH	DRAFT: E.N..	01.02.98	1518 SOUTH SANTA FE AVE.COMPTON, CALIFORNIA 90221*TEL(310) 639-2507*FAX(310) 639-0705
INTERPRET DRAWING IAW ANSI Y14.5 M - 1982	ENG.		TITLE: 6.5" DIA. x 36" STROKE - MOTORCYCLE LIFT
UNLESS OTHERWISE SPECIFIED ALL DIAMETERS ARE CONCENTRIC WITHIN .010 T.I.R.	UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES TOLERANCES ON: FRACTIONS ± 1/16; DECIMAL DIMENSIONS X = ± .04, XX = ± .02, .XXX = ± .010; ANGLES ±1°		COMP. NUMBER: CUST-A; CODE IDENT.; DWG. SIZE D; DWG. NO 310; REV. △; SCALE 1=5; UNIT WEIGHT:; SHEET 1 OF 1

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Bestway Air/Hydraulic Lift

Bleeding Procedure

1. With the Lift in the down position, remove the Fill Plug (the 1" bolt in the center of the ram);
2. Fill the Lift with non-detergent, non-foaming oil (30W motor oil will do just fine); OR - AW32 HYDRAULIC OIL
   The 5" diameter ram Lift requires approximately 6 US gallons;
   The 6 1/2" diameter ram Lift requires approximately 10 US gallons;
3. The piston diameter can easily be recognized by the number of mounting holes in the top of the piston. (The 5" Lift has 4 holes. The 6 1/2" Lift has 6 holes.);
4. Fill to within 1" from the bottom of the threads of the fill opening;
5. Replace the fill plug and washer and tighten -- DO NOT USE AIR TOOLS!!!!!
6. Connect the air hose to the air valve using quick coupling adapters;
7. Raise the Lift to its highest position;
8. When the Lift is in this position, open the bleeder valve (the bleeder valve is the small brass valve located on the gland ring). To open the bleeder valve, use a flat head screwdriver;
9. After all air is removed and oil begins to flow freely from the bleeder valve, tighten the bleeder valve;
10. Lower the Lift using the air valve and remove the air hose;
11. Open the fill plug and add oil to the correct level -- DO NOT RAISE THE LIFT BEFORE ADDING OIL!!!
12. Repeat steps 5 though 11 as necessary, until all the air has been removed from the Lift.

CAUTION!!! Do not operate the Lift before it has been filled with oil. Serious injury may result!

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Bestway Air/Hydraulic Lift

Seal Replacement Instructions

(Having Air Valve at Side of Platform)

1. Prop Lift up to approximate full height;
2. Remove mounting bracket and valve assembly;
3. Remove bolts holding superstructure. At this point, piston should lower to floor. If not, push down on piston to lower;
4. Clean top of piston of all accumulated dirt and oil;
5. Remove packing gland bolts and remove packing gland.
6. Clean top of seal and bearing of accumulated dirt and oil. Tighten bearing bolts if needed;
7. Remove old Cylinder Packing (seal) by inserting a small screwdriver down the outside part of the seal. (Be careful not to mar the piston surface.);
8. Clean out packing recess;
9. Assemble new packing into recess. Make sure packing is not scored or damaged.
10. If it is necessary to replace piston wiper, remove wiper from gland and replace with new wiper;
11. Replace packing gland making sure all is clean. Tighten the hex bolts evenly and snug.
12. Insert end of blow gun into air hole on side of piston. Raise piston until it reaches propped-up superstructure. Immediately, insert hex bolts. This will hold piston up. Tighten bolts evenly and snug;
13. Reassemble the air valve assembly and air valve mounting bracket;
14. Raise Lift to full height and bleed by opening the bleeder valve. (Similar to bleeding brakes.) Close valve when steady stream of oil comes out;
15. Check oil level. Oil should be approximately one inch from bottom of head. If necessary add more oil;
16. Check for leaks. If any are found, tighten the flange bolts and fill plug until leak stops. An easy way to check for leaks around fill plug, is to raise Lift to full height and pour a little water around fill plug. If bubbles appear, tighten fill plug until bubbles stop.

Note: This Lift is designed to operate efficiently at "not more than 175 P.S.I."