

## **GENERAL HYDRAULIC SOLUTIONS**

### **BLEEDING PROCEDURE**

This is done if your system is contaminated by sucking in outside water through a broken stainless steel hose or leaking cylinder seals.

Check the condition of all exterior stainless steel hoses and the two locking cylinders. Corroded hoses can and will contaminate the hydraulic oil affecting the operation of the hydraulic pump. Make necessary repairs before changing the hydraulic oil.

**NOTE:** ALL THESE INSTRUCTIONS ARE ASSUMING THAT THE PUMP RESERVOIR IS FULL. LIFT IS STARTING OUT IN THE UP POSITION AND THE BOAT IS IN THE WATER. IF THE BOAT IS OUT OF THE WATER YOU CAN USE YOUR CATCH CONTAINER OUTSIDE TO MINIMIZE MESS.

**WARNING:** DURING THIS PROCEDURE *DO NOT* RUN PUMP FOR MORE THAN TWO (2) MINUTES WITHOUT ALLOWING A COOL DOWN PERIOD BETWEEN OPERATIONS.

**WARNING:** DO NOT RUN RESERVOIR DRY, DAMAGE TO THE PUMP WILL OCCUR!! THE 2 LIFT CYLINDERS CAN HOLD MORE OIL THAN THE RESERVOIR CAN STORE.

#### **TOOLS NEEDED:**

TWO (2) #4 JIC HOSES THAT WILL REACH FROM FITTINGS TO CATCH CONTAINER APPROXIMATELY 36 INCHES LONG. (RECOMMEND EMPTY 1 GAL CONTAINER)

TWO #4 JIC CAPS

WRENCHES 9/16" & 5/8" (15mm & 16mm)

HAND SUCTION PUMP

OIL APPROX FIVE (5) GAL. HYDRAULIC OIL

### **BLEEDING PROCEDURE**

**NOTE:** DURING THIS PROCEDURE DO NOT RUN PUMP FOR MORE THAN 2 MINUTES WITHOUT ALLOWING THE PUMP MOTOR TO COOL DOWN.

- #1 WITH LIFT IN UP POSITION SUCK THE CONTAMINATED OIL OUT OF THE RESERVOIR TANK. FILL WITH CLEAN OIL UNTIL OIL LEVEL IS ONE INCH FROM BOTTOM OF FILLER NECK.**
- #2 LOWER LIFT TILL ARMS ON BOTH SIDE BOTTOM OUT ON BOTTOM PIN OR ON EARLY MODELS 1999 THRU MID 2000 CYLINDER WILL BOTTOM OUT.**
- #3 REMOVE STAINLESS STEEL HOSES FROM BLIND END OF CYLINDERS AND THE BULKHEAD FITTINGS. THIS IS THE FITTING WELDED TO THE TOP OF THE LIFT CYLINDER. SEE BOX # 3 BELOW**
- #4 REMOVE THE CAPS FROM BLEED FITTING ON THE 2 LIFT CYLINDER AND ATTACH HOSES TO THE FITTINGS. INSTALL THE CAPS THAT WERE REMOVED FROM THE BLEED FITTINGS TO BLIND END FITTINGS OF CYLINDER. INSERT THE 2 HOSES INTO A EMPTY 1 GALLON CONTAINER**
- #5 TURN THE POWER SWITCH ON AND PRESS THE UP BUTTON FOR ABOUT 5 SECONDS, KEEP FILLING THE OIL TANK WITH CLEAN HYDRAULIC OIL. THIS WILL PURGE ANY CONTAMINATED OIL OUT OF THE SYSTEM. DO THIS UNTIL THE OIL COMES OUT CLEAN.**
- #6 REMOVE THE HOSES AND REINSTALL THE CAPS ONTO THE BLEEDER FITTINGS. DO NOT LET THE SWIM PLATFORM FLOAT UP AT ALL, THIS WILL SUCK WATER BACK INTO THE CYLINDERS YOU JUST FLUSHED OUT.**
- #7 WITH THE BLIND END STAINLESS STEEL HOSES REMOVED, INSTALL THE 2 HOSES YOU USED FOR BLEEDING ONTO THE BLIND END FITTINGS ON THE LIFT CYLINDERS. INSERT THE OPEN END INTO A EMPTY 1 GALLON CONTAINER. CAP THE 2 OPEN PORTS ON THE TRANSOM BULKHEAD FITTINGS.**
- #8 WITH THE OIL TANK FULL OF CLEAN OIL, RUN THE LIFT UP. THIS WILL TAKE THE CONTAMINATED OIL IN THE TOP OF THE LIFT CYLINDERS AND FLUSH IT OUT.**
- #9 WITH THE LIFT UP AND LOCKED INTO PLACE, REMOVE THE 2 CAPS FROM THE BULKHEAD FITTINGS AND YOUR BLEEDER HOSES. REINSTALL THE STAINLESS STEEL HOSES AND RUN THE LIFT ALL THE WAY DOWN. DO NOT RUN THE LIFT UP AT THIS TIME. THERE IS CONTAMINATED OIL STILL IN THE SYSTEM. Continued next page.**

Page 1

- #10 REPEAT STEPS 7, 8 & 9 UNTIL ALL THE CONTAMINATED OIL IS OUT OF THE CYLINDERS.**

#11 IT IS RECOMMENDED TO REPLACE THE OIL FILTER AT THIS TIME.

