Description: This document describes the procedures to use in the event that you need to release fluid pressure from a Cirus hydraulic manifold assembly when you do not have system power available (pump or engine non-functional).

Normal procedure: each valve section contains a “red” manual over-ride button that can be actuated to move hydraulic fluid in the selected direction of motion when system power functions, but you need to actuate the function from the valve assembly instead of from the control system in the vehicle cab.

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TECH NOTE: 08-007  
TITLE: Procedure for hydraulic pressure release without system power.  
DATE: 08/5/08  
REVISION: 1.1  

Procedure for Releasing Hydraulic Pressure When System Power is non-functional

1) To Lower a Dump Body Hoist – Identify the valve part number
   a. HYDJ05 – 35gpm, DA cylinder section with counterbalance valve: with truck engine off, loosen locknut on the counterbalance valve (item 2 on attached drawing). Slowly, turn adjusting screw clockwise, while counting turns, to reduce setting and lower the load. The load will begin to move when the setting is low enough. After the load has been lowered, return adjusting screw to original setting and tighten the locknut.

2) To Raise/Lower implement (Hoist, Plow, Wing or Blade) - Identify the valve part number
   Lifting of an implement, adjust port relief of the return side of the valve (usually port A).
   Lowering an implement, adjust port relief of the pressure side of the valve (usually port B).
   a. HYDJ09 – 20gpm, DA, cylinder section:
      i. With truck engine turned off, identify the desired port relief valve, (item 5 on drawing), and loosen the locknut. Slowly turn the adjusting screw counterclockwise while counting the turns, all the way until it stops. The pressure setting at the full counterclockwise position will be 250psi. Now, an external source (winch, fork lift, etc) may be used to lift/lower the implement into the desired position. After the implement has been moved, return adjusting screw to original position and tighten locknut.
   b. HYDJ06 – 10gpm, DA, cylinder section:
      i. With truck engine turned off, identify the desired port relief valve, (item 7 on drawing), and loosen the locknut. Slowly turn the adjusting screw counterclockwise while counting the turns, all the way until it stops. The pressure setting at the full counterclockwise position will be 250psi. Now, an external source (winch, fork lift, etc) may be used to lift/lower the implement into the desired position. After the implement has been moved, return adjusting screw to original position and tighten locknut.
ASSEMBLY PART NUMBER STAMPED IN HERE
EXAMPLE: "HYDJ103050606"

MAIN SYSTEM RELIEF

ALL PORTS MARKED ON BOTTOM OF VALVE

SPREADER SECTION ALWAYS FIRST

HOIST UP/DOWN

PLOW UP/DOWN

PLOW LEFT/RIGHT

CYLINDER SECTIONS RUN FROM HIGH TO LOW FLOW

PORT "A" IS ALWAYS RETURN (ROD). EXAMPLES ARE HOIST DOWN, PLOW DOWN, TOE DOWN, HEEL DOWN, AND BLADE DOWN.

PORT "B" IS ALWAYS POWER (BASE). EXAMPLES ARE HOIST UP, PLOW UP, TOE UP, HEEL UP, AND BLADE UP.

ASSEMBLY PART NUMBER BREAK OUT

HYDJ1  03  05  06  06

CIRUS MANIFOLD SYSTEM DESIGNATOR

SPREADER OR INLET BLOCK #

HIGH FLOW OR HOIST BLOCK #

CYLINDER BLOCK 1 #

CYLINDER BLOCK 2 #

MANIFOLD STANDARD LAYOUT:

00, 00C, 01, 02, 03, 04 SPREADER BLOCK / INLET

05, 07, 09 HOIST (OR HOOK) UP / DOWN

05, 09 HOOK JIB IN / OUT (IF PRESENT)

06, 08 PLOW UP/DOWN

06 PLOW LEFT / RIGHT

06, 08 WING TOE

06, 08 WING HEEL

06 WING BENCH (IF PRESENT)

06, 08 BLADE UP / DOWN

06 BLADE LEFT / RIGHT

BLOCK DETAILS CAN BE FOUND ON THE FOLLOWING PAGES
BY ADDING AN HYDJ IN FRONT OF THE ABOVE NUMBERS.
AN EXAMPLE IS HYDJ05

PORT "A" IS ALWAYS RETURN (ROD). EXAMPLES ARE HOIST DOWN, PLOW DOWN, TOE DOWN, HEEL DOWN, AND BLADE DOWN.

PORT "B" IS ALWAYS POWER (BASE). EXAMPLES ARE HOIST UP, PLOW UP, TOE UP, HEEL UP, AND BLADE UP.