

HYDRAULIC OIL CHANGE PROCEDURE

FOR PORTABLE UNITS WITH HYDRAULIC JACKS USING PARKER 165 POWER UNIT WHERE OIL HAS WATER CONTAMINATION

* PLEASE SEND SERIAL NUMBER LOCATED ON SIDE OF BOX TO CLIENT CARE!

REQUIRED TOOLS

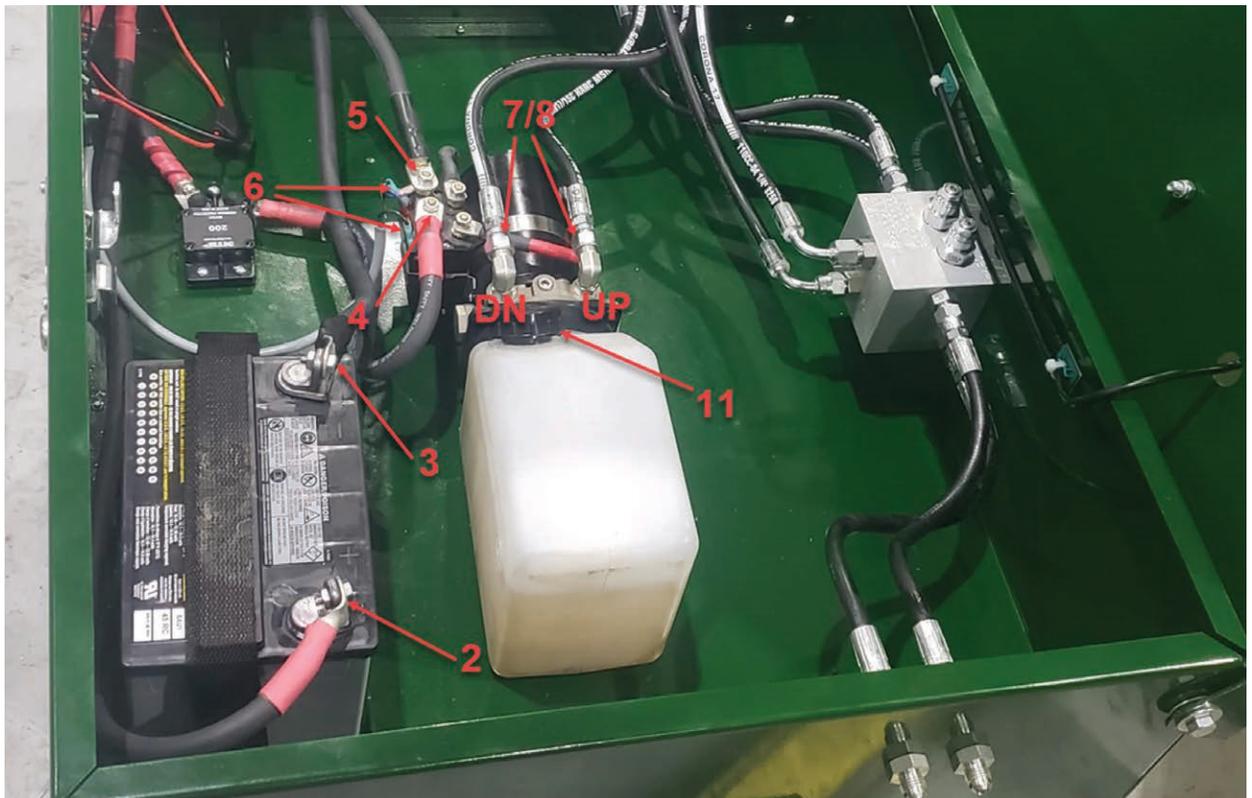
- 1 x 7/16" socket & ratchet
- 1 x 7/16" wrench
- 1 x 10mm socket & ratchet or wrench
- 1 x pliers
- 1 x 11/16" wrench
- 1 x 9/16" wrench
- 2 x #6 Male JIC plug

DISASSEMBLY INSTRUCTIONS

IMPORTANT! Before starting any disassembly, it is recommended to take pictures of where all the wires and hoses connect to for easy reference when re-assembling.

- 1) Open lid on the power pack on top of portable unit – If needed, key is in the manual holder.

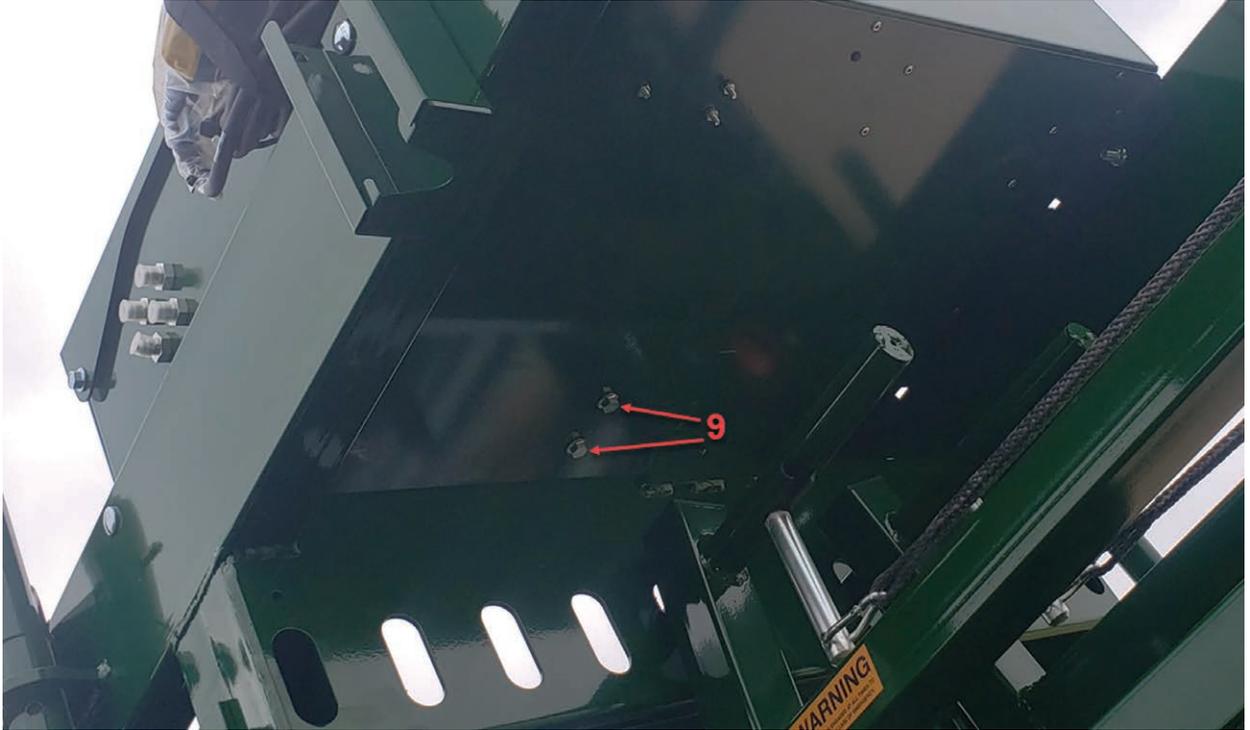
THE FOLLOWING IMAGE IS USED FOR STEPS 2-7 & 11 (PARTS ASSOCIATED WITH STEPS LABELLED AS SUCH)



- 2) Disconnect the positive (**red**) wire from the battery using the 7/16" socket/wrench.
- 3) Disconnect the negative (**black**) wire from the battery using the 7/16" socket/wrench.



- 4) Disconnect the positive (**red**) wire from the switch solenoid using the 10mm socket/wrench.
- 5) Disconnect the negative (**black**) wire from the switch solenoid using the 10mm socket/wrench.
- 6) Label and disconnect the 2x (**blue**) spade connectors from the switch solenoid using the pliers.
- 7) **IMPORTANT:** Before disconnecting the hydraulic lines on the pump connections ensure that they are labelled according to the "UP" & "DN" ports for reference in re-assembly.
- 8) Once labelled, disconnect the hydraulic lines using 11/16" & 9/16" wrenches and plug lines (Male #6 JIC plug) once removed.



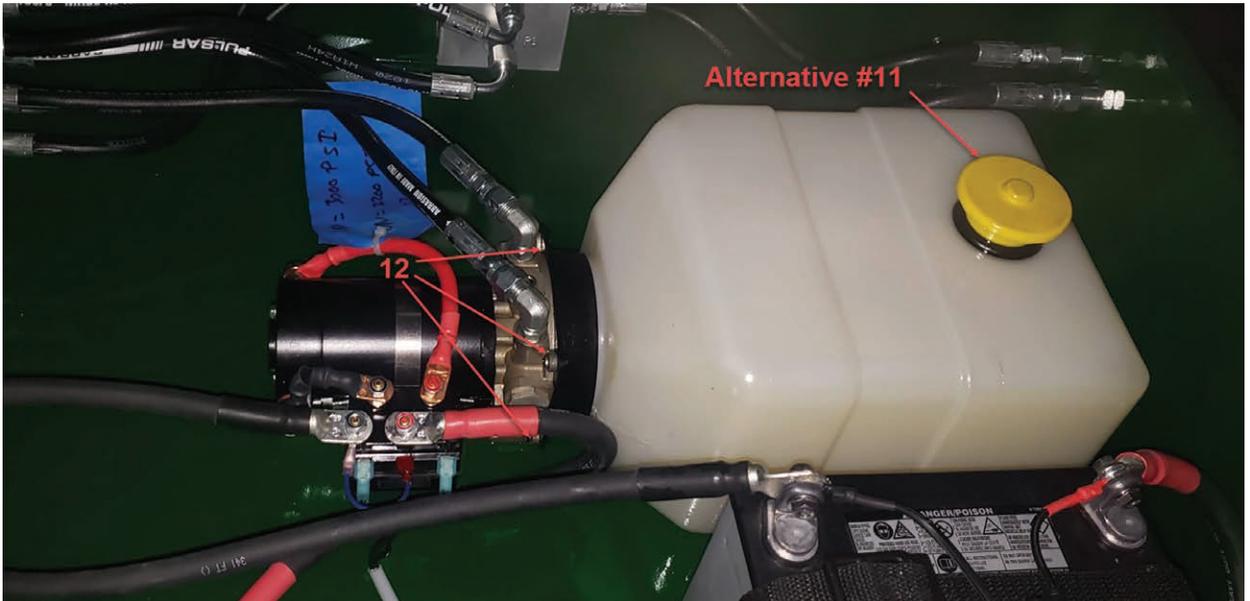
- 9) Remove 2 x 3/8-16 x 1/2" hex flange bolts from underneath the power pack box with 9/16" socket or wrench to free up Parker 165 power pack.
- 10) The pump and reservoir should be free to remove from power pack box to carry out the next steps on a clean workbench in a dust-free environment

ADDITIONAL TOOLS REQUIRED AT THIS POINT

- Lint-free rags
- 6" long #2 Phillips screwdriver
- Waste oil drain bucket
- 2 x Brass strainer filters



- 11) Unscrew breather cap on reservoir and empty oil contents into waste oil bucket
- 12) When reservoir is empty, stand reservoir on its end and remove the 4 screws that fasten the reservoir on to the back end of the pump.



- 13) Pull the motor and pump off the reservoir and stand the motor on its end so that the pick-up tubes are facing up. Remove the brass strainer cups off the pick-up tubes and clean scum build up with brake cleaner. (If brass strainers are not too deformed or ripped, they can be reused, or Arrowquip can provide new ones)
- 14) Clean back of pump housing and inside reservoir of any scum/debris with brake cleaner and wipe down with lint-free rags.



RE-ASSEMBLY INSTRUCTIONS

- 15) When the back of the pump housing, reservoir, and the brass strainer (filter cups) are clean, re-assemble the reservoir back to the pump with the 4 screws removed earlier.
- 16) Fasten the oil reservoir to the pump with the 4 screws removed in step #13.
- 17) Place the pump and reservoir assembly back in its place in the power pack box on top of the portable.
- 18) Mount pump inside the box with the 2x 3/8-16 x 1/2" hex flange bolts that were removed in step #10.
- 19) Remove #6 JIC plugs from the hydraulic lines and connect the hydraulic lines to the "UP" & "DN" ports ensuring the hoses are connected as labelled in step #8 and #9.
- 20) Tighten fittings using 11/16" & 9/16" wrenches.
- 21) Re-connect the 2 x (blue) spade connectors from the switch solenoid as labelled before disconnecting.
- 22) Re-connect the negative (black) wire from the switch solenoid using the 10mm socket/wrench.
- 23) Re-connect the positive (red) wire from the switch solenoid using the 10mm socket/wrench.
- 24) Re-connect the negative (black) wire from the battery using the 7/16" socket/wrench.
- 25) Re-connect the positive (red) wire from the battery using the 7/16" socket/wrench.
- 26) Fill the oil reservoir with ATF, OD18; other clean hydraulic oil with a viscosity of 150 to 300 SUS at 38°C (100°F) is acceptable.
- 27) With selector valve in the "Front Jacks" position operate the front jack and do 2-3 cycles.
- 28) With selector valve in the "Rear Jacks" position operate the rear jacks and do 2-3 cycles.

NOTE

Arrowquip recommends following this procedure through 2-3 times to ensure the oil with water contamination is removed as much as possible.

FURTHER ASSISTANCE

For further information or technical help call Arrowquip client care at 1-877-275-6075 or email cs@arrowquip.com.

