

Fault Description: The usual symptoms of an engine crane with air in the system are as follows.

- No advance in the ram/ram's stroke while operating the pump.
- Ram jumps forward while being advanced.
- A Ram will not fully retract.

Bleeding Procedure

1. With the ram fully lowered, close the raise/lower valve into the 'raise' position.
2. Raise the ram by manually lifting the attached boom arm, ensure that the ram is at its full stroke.
3. Once at full height, remove the filler plug then reinsert it to zero the vacuum build up then insert the handle into the pump and slowly pump the ram 10-15 times.
4. Open the valve to the 'lower' position and as the ram drops slowly pump the unit.
5. Remove the filler plug then reinsert it to zero the air pressure build up.
6. Repeat steps 1-5 five times to ensure excess air is out of the system.

At this point the engine cranes ram should be bled off air, however if the symptoms described at the beginning of this instruction persist repeat steps 1 to 5.