



**READ
INSTRUCTIONS
THOROUGHLY
BEFORE
PROCEEDING**

SYNCHRONIZING CYLINDER OR HOSE ASSEMBLY REPLACEMENT ALL DUAL CYLINDER ROOM EXTENSIONS (WITH SYNCHRONIZING CYLINDER)

IMPORTANT: The following instructions must be followed or air lock of the synchronizing cylinder and unsynchronized operation of the room cylinders may result causing damage to the room. Please read the instructions before replacing the cylinder. **DO NOT reverse direction of the room unless the room is fully extended or retracted.**

Refer to the correct room cylinder replacement sheet for information concerning room cylinder removal and replacement and any adjustments that need to be made.

1. Fully extend or retract the room according to the correct room cylinder replacement sheet.
2. Disconnect the end of both rods from the room extension mechanism.
3. Retract the rods completely.

NOTE: Room cylinders must be fully retracted before replacing the synchronizing cylinder or hose assembly.

4. Loosen the extend valve "T" handle.
5. Loosen the retract valve "T" handle.

NOTE: If the system uses a reversible pump instead of a room manifold, open the one emergency retract valve.

SYNCHRONIZING CYLINDER REPLACEMENT

1. Remove and cap the hoses to the synchronizing cylinder.

NOTE: DO NOT remove the caps from the new cylinder hose connections until you are ready to attach the hoses. Save the caps.

2. Replace the synchronizing cylinder and reattach the hoses to the proper connections. **DO NOT** over tighten the hose connections.

Tightening of hose ends: If tightening a new hose end, make the hose end snug (finger tight) on the fitting, then tighten the hose end 1/3 turn (2 FLATS). If tightening an existing hose end, tighten the hose end to snug plus 1/4 turn (1 FLAT).

HOSE ASSEMBLY REPLACEMENT

Remove and replace the hose assembly. Tighten the hose ends according to the above tightening procedure.

BLEEDING PROCEDURE

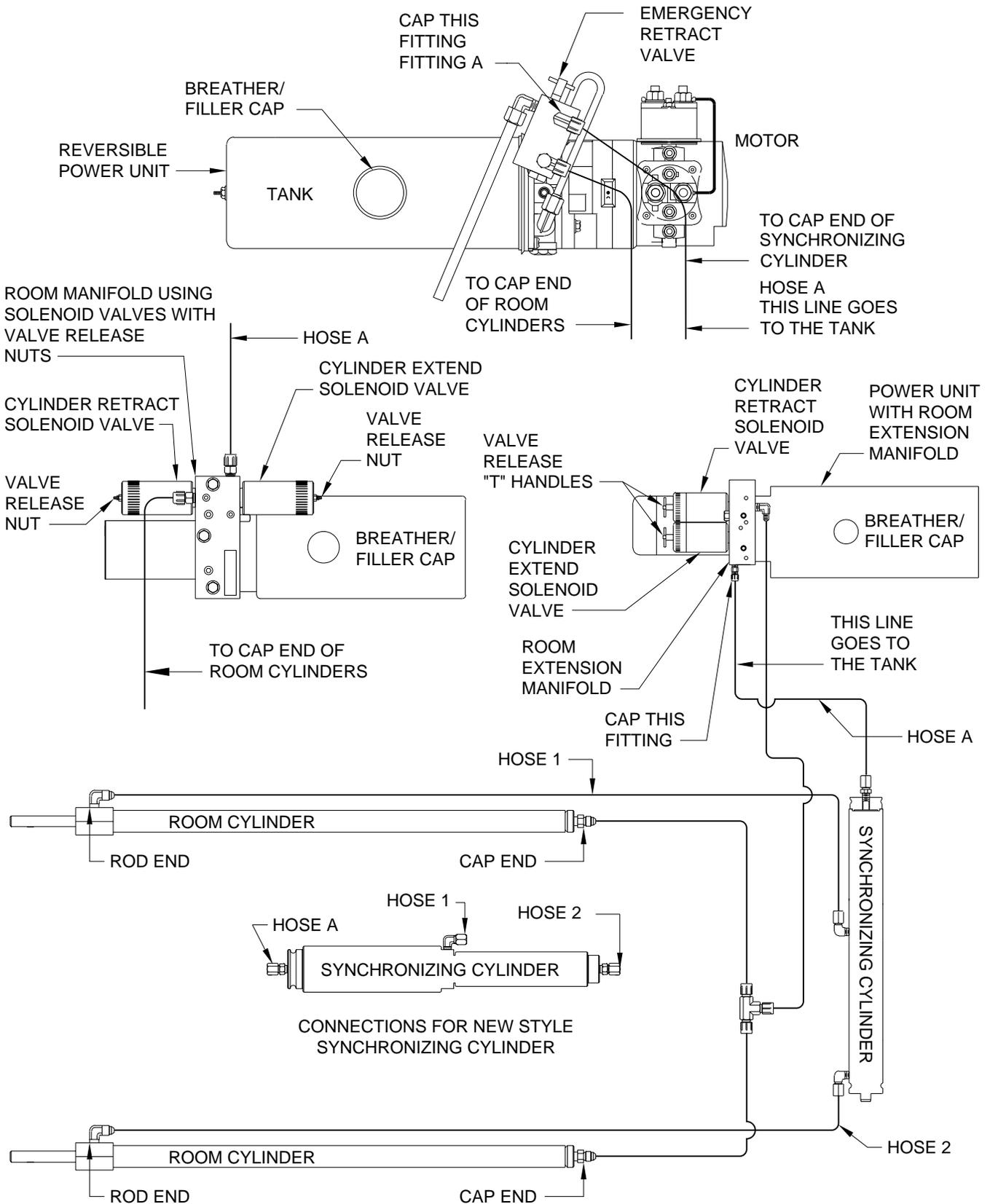
1. Remove hose A from the room extension manifold. Use a cap from the new cylinder to cap the fittings in the manifold. Direct hose A into the fluid reservoir.
2. Close the extend and retract valve "T" handles/Valve release nuts. (The emergency retract valve if a reversible pump is used.)
3. Extend the rods completely. Hold the room control switch on for five seconds after the rods are fully extended.

Refer to the correct room cylinder replacement sheet to complete the bleed procedure. Start where the instructions reattach hose A to the pump assembly, or continue on this sheet.

4. Open the cylinder extend valve first, then the cylinder retract valve.
5. Reattach hose A to the manifold fitting and tighten. Close the solenoid valves.
6. Retract and extend the cylinders until they are running together. Cycle the cylinders at least three times, more if needed to synchronize the cylinders. Hold the switch about 5 seconds each time the cylinders are fully extended or retracted.
7. Reattach the cylinders to the room mechanism.
8. Extend and retract the room several times to make sure the room is synchronized. Watch the room closely and release the room switch immediately if the room starts to rack.

If the room will not synchronize, contact HWH for assistance.

SYNCHRONIZING CYLINDER OR HOSE ASSEMBLY REPLACEMENT ALL TYPE A DUAL CYLINDER ROOM EXTENSIONS (WITH SYNCHRONIZING CYLINDER)



ALL TYPE A DUAL CYLINDER ROOM EXTENSIONS