



# HYDRAULIC LINE CONNECTION DIAGRAMS

## HWH® SPACEMAKER® SLIDE-OUT SYSTEMS

### **FEATURING:**

*Single-Cylinder "Guided" Slide-Out System*

#### **HWH CORPORATION**

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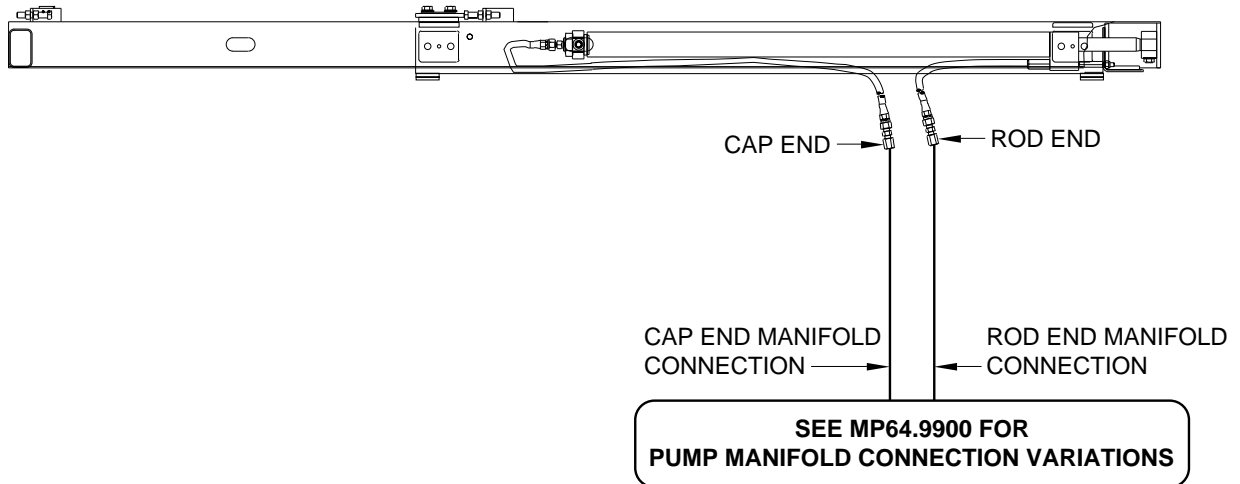
# GENERIC HYDRAULIC LINE CONNECTION DIAGRAM

## SINGLE CYLINDER "GUIDED" ROOM EXTENSION

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CYLINDER EXTEND - ROOM EXTEND  
CYLINDER RETRACT - ROOM RETRACT  
CHECK OIL LEVEL WITH ROOM RETRACTED

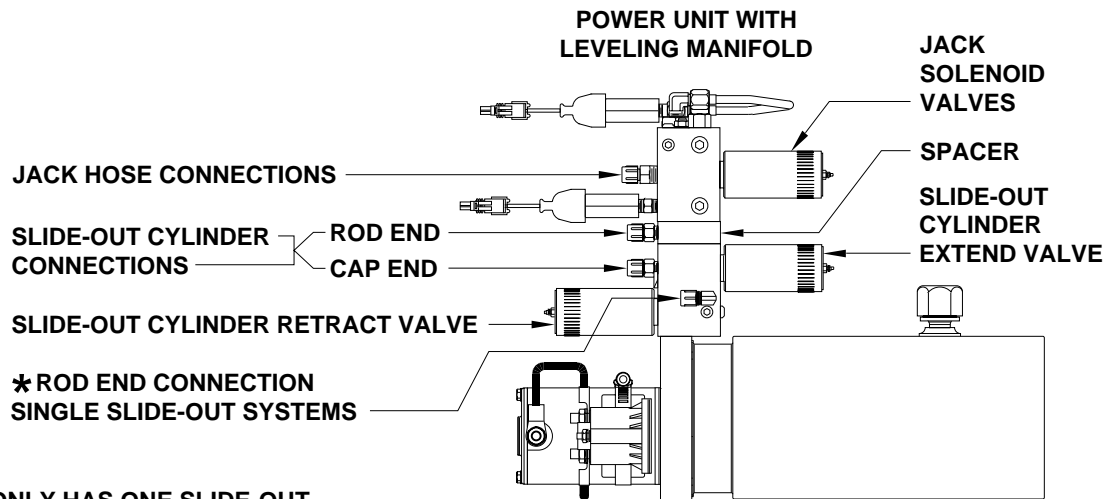
**NOTE:** THE ROD END CONNECTION  
FROM THE MANIFOLD TO THE ROOM  
CYLINDER IS ALWAYS PRESSURIZED.



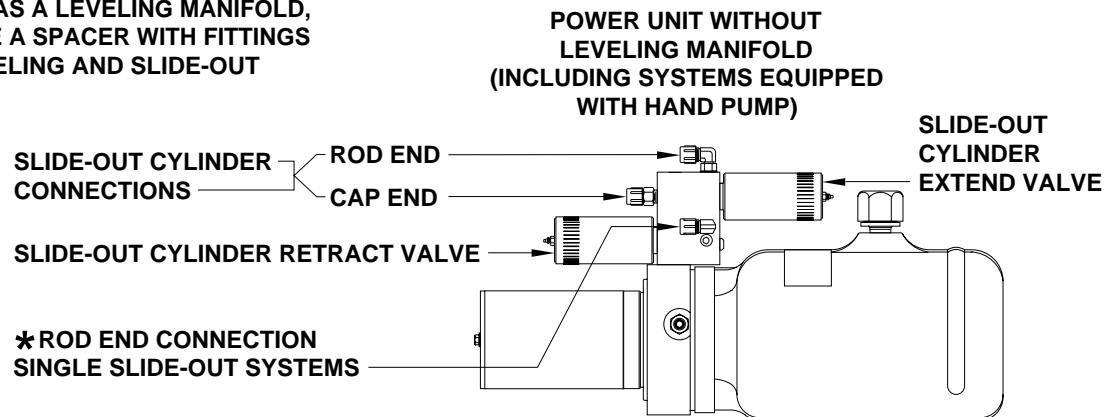
# HYDRAULIC LINE CONNECTION DIAGRAM

## SLIDE-OUT LINE CONNECTIONS AT THE MANIFOLD

### ALL HWH SLIDE-OUT MECHANISMS



\* IF THE VEHICLE ONLY HAS ONE SLIDE-OUT AND THE MANIFOLD IS NOT EQUIPPED WITH AN AUXILIARY HAND PUMP, THE ROD END HOSE CONNECTION MAY BE AT A FITTING THAT IS ON EITHER END OF THE SLIDE-OUT MANIFOLD. IF THE POWER UNIT HAS A LEVELING MANIFOLD, THERE WILL NOT BE A SPACER WITH FITTINGS BETWEEN THE LEVELING AND SLIDE-OUT MANIFOLDS.

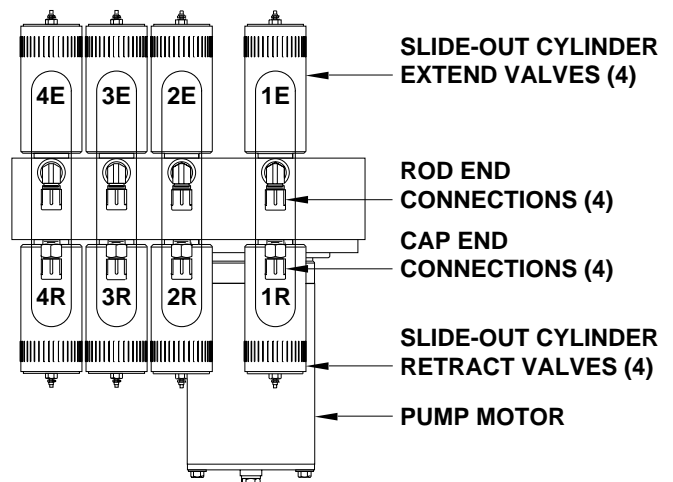


HOSE CONNECTIONS AT THE MANIFOLD ARE CRITICAL. IMPROPER HOSE ROUTING WILL CAUSE INCORRECT SLIDE-OUT FUNCTION AND CAN CAUSE SEVERE DAMAGE TO SLIDE-OUT CYLINDERS OR SOLENOID VALVES. IF A ROD AND CAP END HOSE ARE REVERSED FOR A SLIDE-OUT, THE SLIDE-OUT CYLINDER(S) WILL EXTEND BUT NOT RETRACT.

THE ROD AND CAP HOSES MUST GO TO THE CORRECT FITTINGS IN LINE WITH THE CORRECT EXTEND AND RETRACT VALVES FOR THE SLIDE-OUT. IF THE ROD END OR CAP END HOSES FOR TWO SLIDE-OUTS ARE SWAPPED, EXTREME PRESSURE WILL DAMAGE THE SOLENOID VALVES OR SLIDE-OUT CYLINDERS.

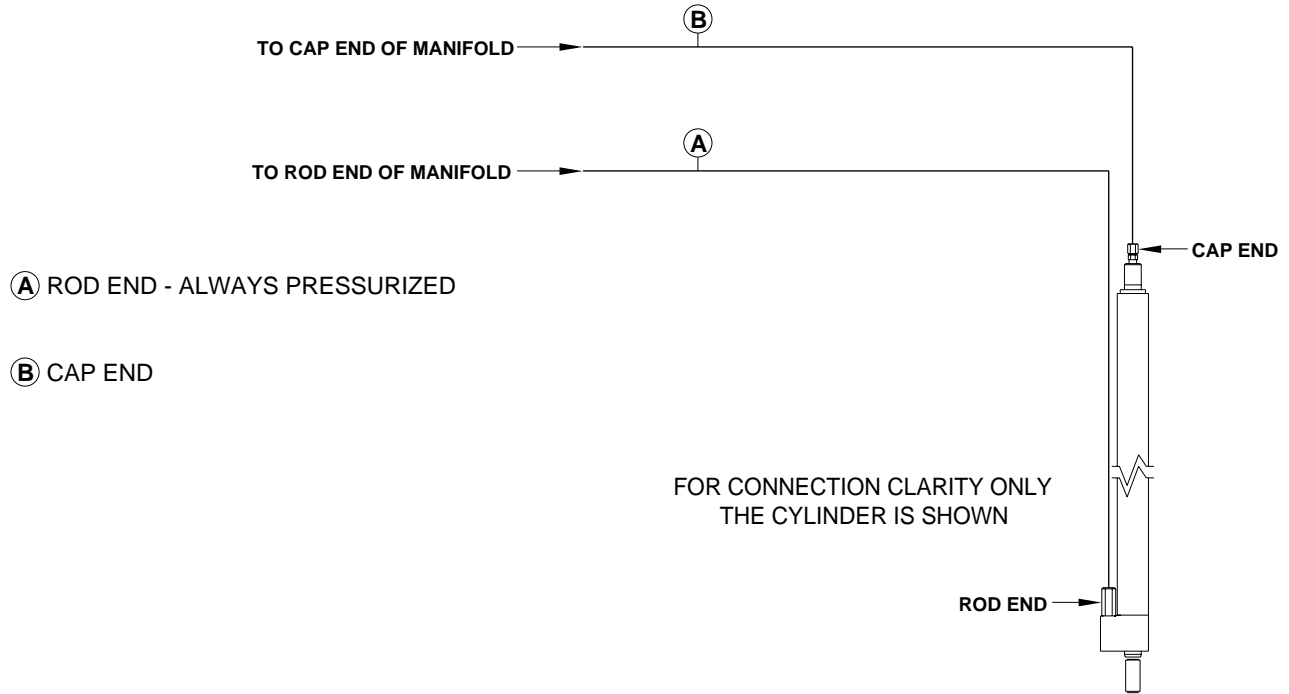
CONNECTION INFORMATION ON THIS PAGE IS THE SAME FOR SYSTEMS EQUIPPED WITH AUXILIARY HAND PUMPS OR REMOTE SLIDE-OUT MANIFOLDS.

TOP VIEW OF 4 SLIDE-OUT MANIFOLD

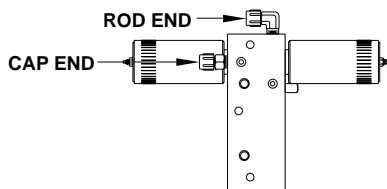


# HYDRAULIC LINE CONNECTION DIAGRAM

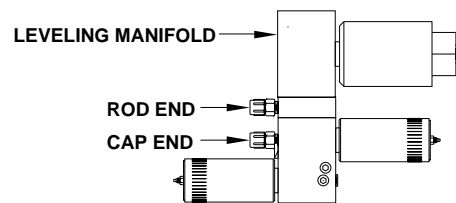
## GENERIC DIAGRAM FOR SINGLE CYLINDER SLIDE-OUT



TOP VIEW  
SINGLE SLIDE-OUT MANIFOLD



SIDE VIEW  
MULTIPLE SLIDE-OUT MANIFOLD  
WITH LEVELING MANIFOLD



SIDE VIEW  
REMOTE MANIFOLD OR SLIDE-OUT MANIFOLD  
WITH NO LEVELING MANIFOLD OR  
WITH AUXILIARY HAND PUMP

