



HYDRAULIC LINE CONNECTION DIAGRAMS

HWH® SPACEMAKER® SLIDE-OUT SYSTEMS

FEATURING:

*Dual-Cylinder "Universal Platform Level-Out (UPLO)" Slide-Out System
With
Three Lift Cylinders
Synchronizing Cylinder Box*

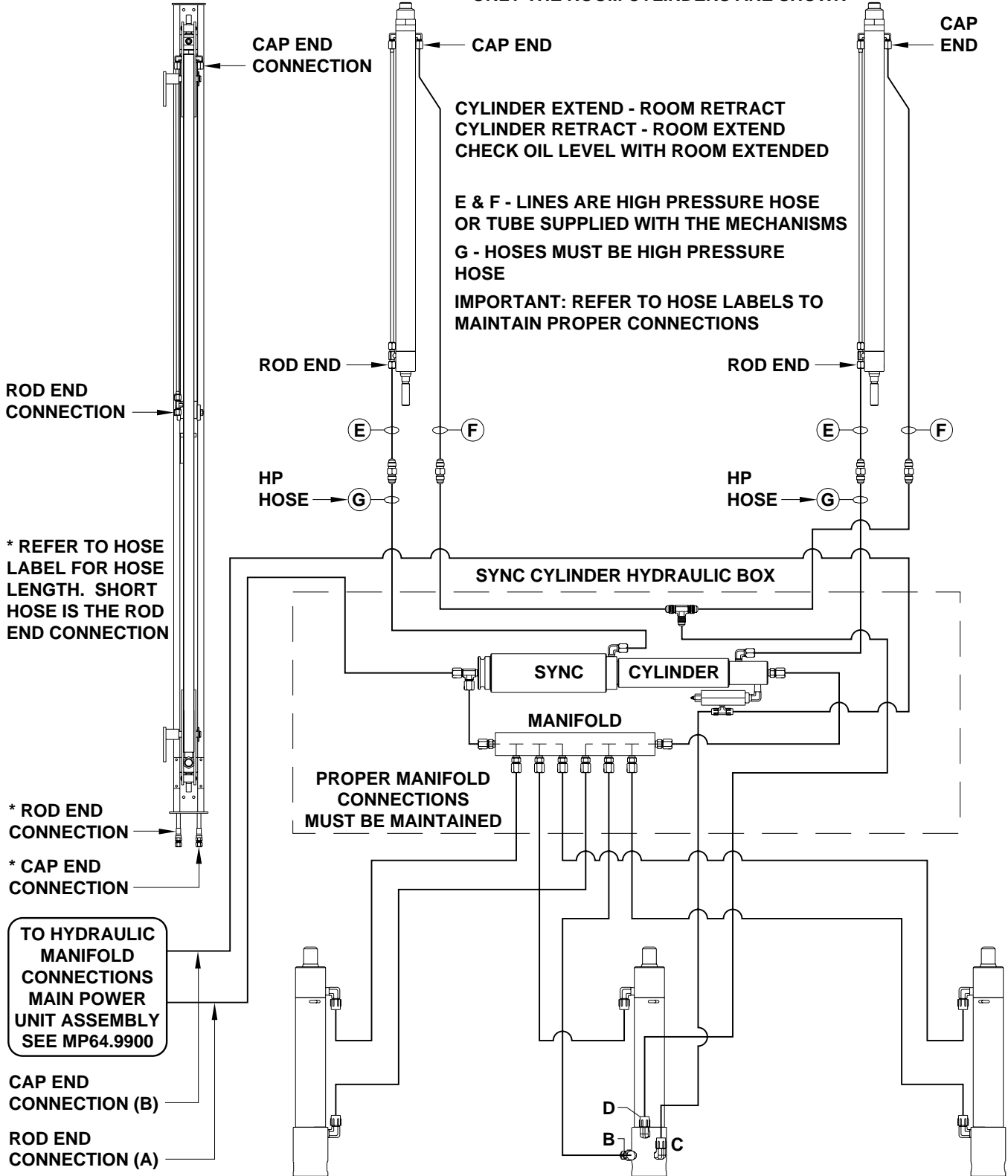
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GENERIC HYDRAULIC LINE CONNECTION DIAGRAM UNIVERSAL PLATFORM LEVEL-OUT ROOM EXTENSION WITH SYNC CYLINDER BOX AND THREE LIFT CYLINDERS

FRONT VIEW
OF MECHANISM

FOR CONNECTION CLARITY,
ONLY THE ROOM CYLINDERS ARE SHOWN



CAP END CONNECTION

CAP END

CAP END

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

E & F - LINES ARE HIGH PRESSURE HOSE
OR TUBE SUPPLIED WITH THE MECHANISMS
G - HOSES MUST BE HIGH PRESSURE
HOSE
IMPORTANT: REFER TO HOSE LABELS TO
MAINTAIN PROPER CONNECTIONS

ROD END CONNECTION

ROD END

ROD END

* REFER TO HOSE LABEL FOR HOSE LENGTH. SHORT HOSE IS THE ROD END CONNECTION

HP HOSE

HP HOSE

SYNC CYLINDER HYDRAULIC BOX

SYNC CYLINDER

MANIFOLD

PROPER MANIFOLD CONNECTIONS MUST BE MAINTAINED

* ROD END CONNECTION

* CAP END CONNECTION

TO HYDRAULIC MANIFOLD CONNECTIONS MAIN POWER UNIT ASSEMBLY SEE MP64.9900

CAP END CONNECTION (B)

ROD END CONNECTION (A)

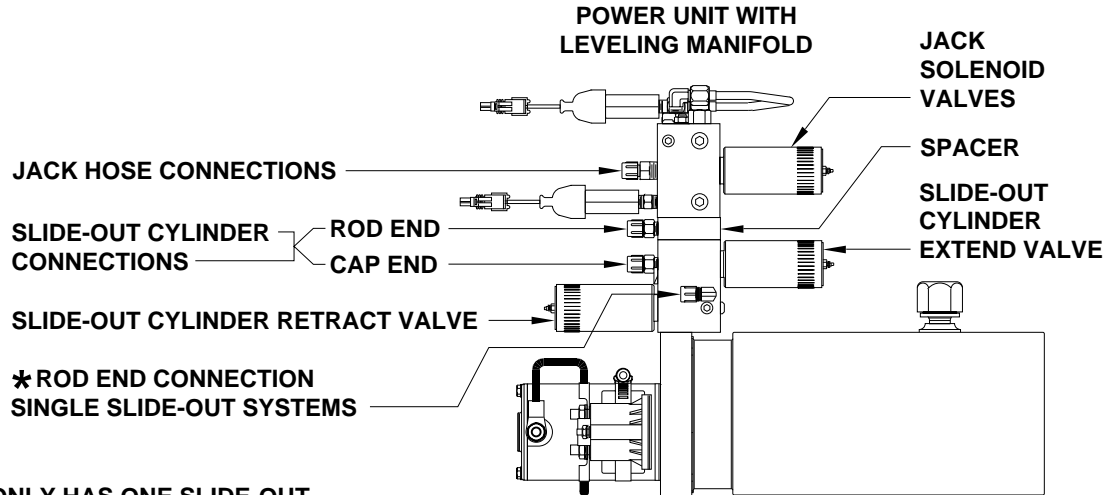
D
B
C

ROOM LIFT CYLINDERS (3)

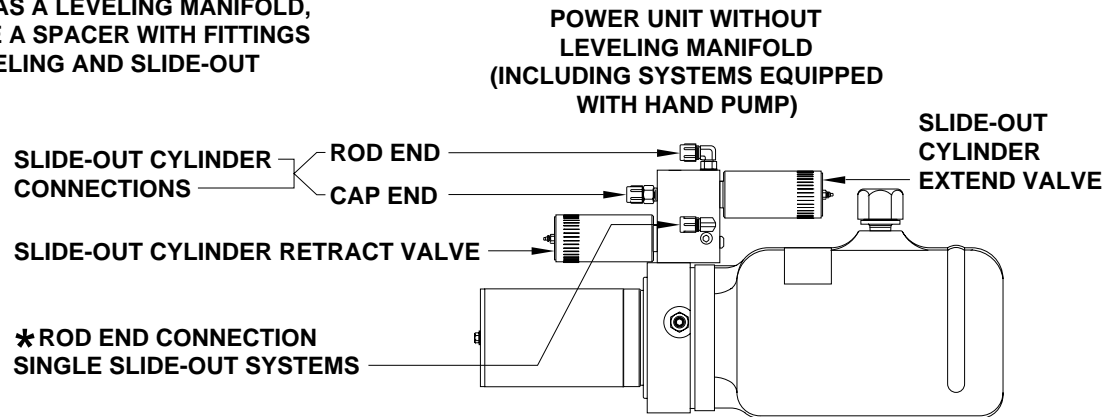
HYDRAULIC LINE CONNECTION DIAGRAM

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.

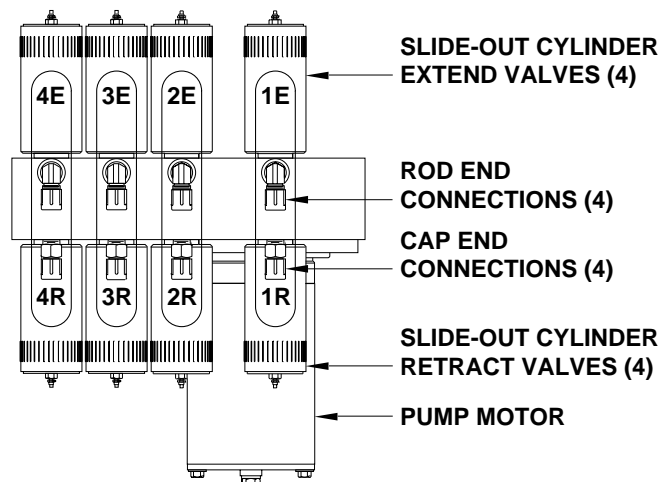


HOSE CONNECTIONS AT THE MANIFOLD ARE CRITICAL. IMPROPER HOSE ROUTING WILL CAUSE INCORRECT SLIDE-OUT FUNCTION AND CAN CAUSE SEVERE DAMAGE TO SLIDE-OUT CYLINDERS OR SOLENOID VALVES. IF A ROD AND CAP END HOSE ARE REVERSED FOR A SLIDE-OUT, THE SLIDE-OUT CYLINDER(S) WILL EXTEND BUT NOT RETRACT.

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.

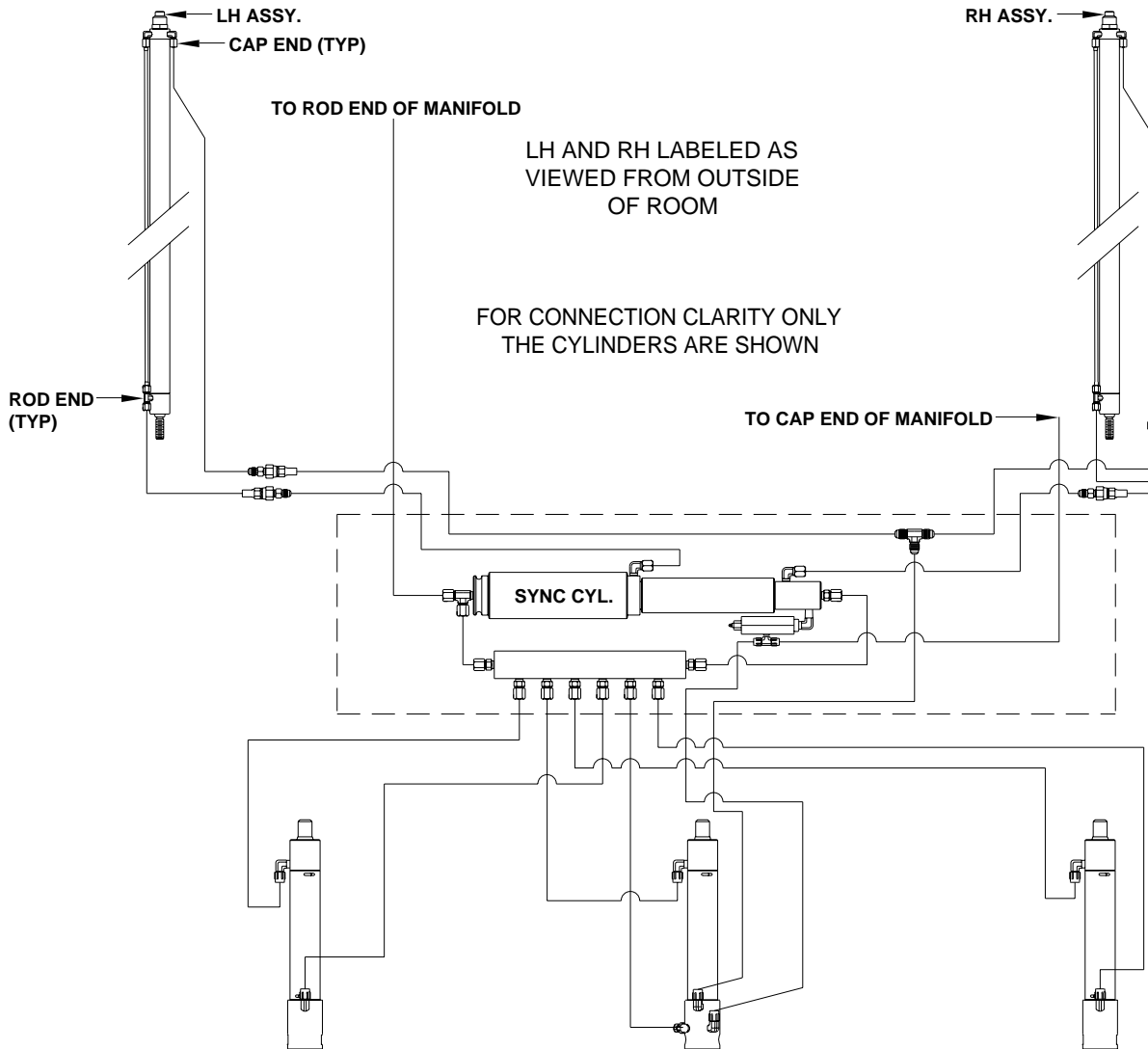
CONNECTION INFORMATION ON THIS PAGE IS THE SAME FOR SYSTEMS EQUIPPED WITH AUXILIARY HAND PUMPS OR REMOTE SLIDE-OUT MANIFOLDS.

TOP VIEW OF 4 SLIDE-OUT MANIFOLD

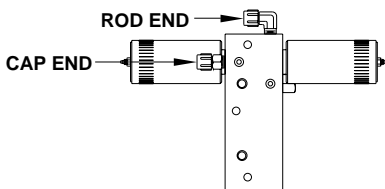


HYDRAULIC LINE CONNECTION DIAGRAM

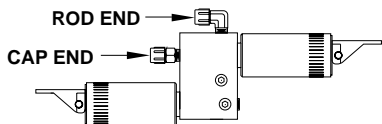
GENERIC DIAGRAM FOR UNIVERSAL PLATFORM LEVEL-OUT SLIDE-OUT WITH SYNC CYLINDER BOX AND THREE LIFT CYLINDERS



TOP VIEW
SINGLE SLIDE-OUT MANIFOLD



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



SIDE VIEW
MULTIPLE SLIDE-OUT MANIFOLD
WITH LEVELING MANIFOLD

